High School Information

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

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: Jaymie Cruickshank
970-613-7900
Counseling Office: 970-613-7916
https://www.thompsonschools.org/thompsonvalley

CEEB CODE FOR BHS 060-095
CEEB CODE FOR FHS 060-946
CEEB CODE FOR LHS 060-950
CEEB CODE FOR MVHS 060-951
CEEB CODE FOR TVHS 060-952

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.

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.

Course Locations
The sites listed with the courses are the site(s) where the course is offered. Transportation may be provided to students who wish to take a course at another school.
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## District Graduation Requirements Classes of 2022-2025

<table>
<thead>
<tr>
<th>Academic Area</th>
<th>20 Credit Diploma</th>
<th>24 Credit Diploma</th>
<th>24 Credit Distinction</th>
<th>28 Credit Distinction*</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Language Arts</td>
<td>4.0</td>
<td>4.0</td>
<td>4.0</td>
<td>4.0</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3.0</td>
<td>3.0</td>
<td>4.0</td>
<td>4.0</td>
</tr>
<tr>
<td>Science (at least 2 credits of science with a lab)</td>
<td>3.0</td>
<td>3.0</td>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>Social Studies (Civics and at least 1 credit of U.S. or World History)</td>
<td>3.0</td>
<td>3.0</td>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>World Language</td>
<td>1.0</td>
<td>2.0</td>
<td>2.0</td>
<td>2.0</td>
</tr>
<tr>
<td>Health and Fitness</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Career Pathway Elective</td>
<td>4.0</td>
<td>7.0</td>
<td>6.0</td>
<td>10.0</td>
</tr>
<tr>
<td>Applied Arts/ CTE</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>Total Credit Requirement</td>
<td>20.0</td>
<td>24.0</td>
<td>24.0</td>
<td>28.0</td>
</tr>
<tr>
<td>Additional Requirements</td>
<td></td>
<td></td>
<td>3.0 of 24.0 credits must be weighted Credits</td>
<td>3.5 weighted GPA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3.5 weighted GPA</td>
<td></td>
</tr>
<tr>
<td>Community Service Requirement (20 hours)</td>
<td></td>
<td>Prorated to 10 hours for the class of 2021</td>
<td>Prorated to 15 hours for the class of 2022</td>
<td>The Class of 2023 and beyond will be required to complete 20 hours.</td>
</tr>
</tbody>
</table>

*This diploma type will no longer be awarded beginning with the Class of 2025.*

**Diploma** - A student who fails to earn the 24 credits needed to receive a Thompson School District Diploma and did not apply for a 20 credit Thompson School District Diploma before February 1 of their senior year, may be considered for the 20 credit diploma. For more information, 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**

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.
<table>
<thead>
<tr>
<th></th>
<th><strong>English Language Arts</strong></th>
<th><strong>Mathematics</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ACT</strong></td>
<td>Score of 18 or better</td>
<td>Score of 19 or better</td>
</tr>
<tr>
<td><strong>ACT WorkKeys</strong></td>
<td>Bronze Designation or higher</td>
<td>Bronze Designation or higher</td>
</tr>
<tr>
<td><strong>ACCUPLACER</strong></td>
<td>Score of 62 or better on Reading Comprehension OR Score of 70 or better on Sentence Skills</td>
<td>Score of 61 or better on Elementary Algebra</td>
</tr>
<tr>
<td><strong>Next Generation ACCUPLACER</strong></td>
<td>Score of 241 or better on Reading OR Score of 236 or better on Writing</td>
<td>Score of 255 or better on Arithmetic (AR) OR Score of 236 on Quantitative Reasons, Algebra and Statistics (QAS)</td>
</tr>
<tr>
<td><strong>AP</strong></td>
<td>Score of 2 or better</td>
<td>Score of 2 or better</td>
</tr>
<tr>
<td><strong>ASVAB</strong></td>
<td>Score of 31 or better</td>
<td>Score of 31 or better</td>
</tr>
<tr>
<td><strong>College Course</strong></td>
<td>Grade of C- or better</td>
<td>Grade of C- or better</td>
</tr>
<tr>
<td><strong>IB</strong></td>
<td>Score of 4 or better</td>
<td>Score of 4 or better</td>
</tr>
<tr>
<td><strong>SAT</strong></td>
<td>Score of 470 or better</td>
<td>Score of 500 or better</td>
</tr>
<tr>
<td><strong>Capstone</strong></td>
<td>District Scoring Criteria (in development)</td>
<td>District Scoring Criteria (in development)</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

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

For more information on the Advanced Placement Program, please visit [www.CollegeBoard.com](http://www.CollegeBoard.com)
WEIGHTED GRADES

In order to encourage high school students to take academically challenging classes and also to encourage them to enroll in a full schedule of classes, the following weighting will be applied to grades in advanced classes that meet the criteria below.

**Weighted Grades/Assessment System**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>5</td>
</tr>
<tr>
<td>B</td>
<td>4</td>
</tr>
<tr>
<td>C</td>
<td>3</td>
</tr>
<tr>
<td>D</td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>0</td>
</tr>
</tbody>
</table>

**Criteria for Weighted Grade Status**

1. All advanced placement (A.P.) courses at the high schools will have weighted grade status.

2. Students must be enrolled in five or more graded classes per semester in order to receive weighted grades.

3. Non-A.P. classes being considered for weighted grade status must meet the following criteria and be submitted to the Board of Education for approval:
   a. The curriculum goes beyond the recall level to include analysis, synthesis and evaluation of the subject matter with exercises in problem solving.
   b. Opportunity is available for individual student research and exploration of the subject with encouragement of creativity.
   c. Instructors cover their subject matter in more depth than in regular courses.
   d. Curriculum cannot just be more of the same or for enrichment only but must be qualitatively different.
   e. Critical thinking should be stressed along with the skills of planning, communication and decision-making.
   f. Productive thinking activities that encourage fluency, flexibility, originality and elaboration are included.
   g. Creative problem solving must also be included so that the skills of fact-finding, research, solution finding, evaluation and acceptance are developed.
   h. The written course objectives will reflect a majority of the standards mentioned above.

Adopted June 3, 1992
Revised May 5, 1993
Revised November 20, 2013

Cross ref.: IKA, Grading/Reporting Systems

*Please visit this [link](#) for the most current policy*
Career and Academic Planning

Suggested Activities to Support Quality Decisions for High School

All Grades  Academic and postsecondary planning with your counselors
• Individual Career and Academic planning (ICAP)
• ICAP career and academic plan (including interest pathway electives)
• Naviance online
• 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) A multiple-aptitude battery that measures developed abilities and helps predict future academic and occupational success in the military
• 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 ASVAB (Armed Services Vocational Aptitude Battery) military placement
• AP classes (Advanced Placement) tests taken in May each year

Junior - Continued
• High School Career Pathway Program classes at community colleges

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 1st
• 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/))

<table>
<thead>
<tr>
<th>REQUIREMENTS</th>
<th>TEST SCORES</th>
<th>EXAMPLES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Open Admissions:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No Requirements</td>
<td>Not required: (recommended)</td>
<td>In State:</td>
</tr>
<tr>
<td></td>
<td>ACT Composite 17-20</td>
<td>Colorado Northwestern CC</td>
</tr>
<tr>
<td>Suggested for Success</td>
<td></td>
<td>Front Range CC</td>
</tr>
<tr>
<td>4 years English</td>
<td></td>
<td>Aims CC</td>
</tr>
<tr>
<td>3 years Math</td>
<td></td>
<td>Colorado Mountain</td>
</tr>
<tr>
<td>2 years Science</td>
<td></td>
<td>Northeastern Junior College</td>
</tr>
<tr>
<td>2 years Social Studies</td>
<td></td>
<td>In State:</td>
</tr>
<tr>
<td></td>
<td>SAT (verbal and math) 830-950</td>
<td></td>
</tr>
<tr>
<td><strong>Liberal Admissions</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>May accept students from lower 50% of class</td>
<td>ACT Composite 18-21</td>
<td>In State:</td>
</tr>
<tr>
<td>GPA 2.0</td>
<td></td>
<td>DeVry University</td>
</tr>
<tr>
<td>4 years English</td>
<td></td>
<td>College America</td>
</tr>
<tr>
<td>4 years Math</td>
<td></td>
<td>Colorado Technical University</td>
</tr>
<tr>
<td>3 years Science</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 years Social Studies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-year Foreign Language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 years Academic Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SAT (verbal and math) 870-990</td>
<td></td>
</tr>
<tr>
<td><strong>Traditional Admissions:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top 50% of class</td>
<td>ACT Composite 20-23</td>
<td>In State:</td>
</tr>
<tr>
<td>GPA 2.5</td>
<td></td>
<td>Johnson and Wales</td>
</tr>
<tr>
<td>4 years English</td>
<td></td>
<td>Out of State:</td>
</tr>
<tr>
<td>4 years Math</td>
<td></td>
<td>University of Wyoming</td>
</tr>
<tr>
<td>3 years Science</td>
<td></td>
<td>Montana State University</td>
</tr>
<tr>
<td>3 years Social Studies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-year Foreign Language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 years Academic Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SAT (verbal and math) 950-1070</td>
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</tr>
<tr>
<td>*<em>Selective Admissions</em></td>
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<td></td>
</tr>
<tr>
<td>Top 25% of class</td>
<td>ACT Composite 22-27</td>
<td>In State:</td>
</tr>
<tr>
<td>GPA 3.2+</td>
<td></td>
<td>University of Denver</td>
</tr>
<tr>
<td>4 years English</td>
<td></td>
<td>Regis University</td>
</tr>
<tr>
<td>4 years Math</td>
<td></td>
<td>Colorado Christian University</td>
</tr>
<tr>
<td>3 years Science</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 years Social Studies</td>
<td></td>
<td>Out of State:</td>
</tr>
<tr>
<td>2-3 years Foreign Language</td>
<td></td>
<td>Arizona State University</td>
</tr>
<tr>
<td>2 years Academic Electives</td>
<td></td>
<td>Kansas University</td>
</tr>
<tr>
<td></td>
<td>SAT (verbal and math) 1030-1220</td>
<td></td>
</tr>
<tr>
<td>**Highly Selective Class Admissions ***</td>
<td>ACT Composite 27-31</td>
<td>In State:</td>
</tr>
<tr>
<td>Top 10% of class</td>
<td></td>
<td>Colorado College</td>
</tr>
<tr>
<td>GPA 3.5+</td>
<td></td>
<td>U.S. Air Force Academy</td>
</tr>
<tr>
<td>4 years English</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 years Math</td>
<td></td>
<td>Out of State:</td>
</tr>
<tr>
<td>4 years Science</td>
<td></td>
<td>Stanford University</td>
</tr>
<tr>
<td>3-4 years Social Studies</td>
<td></td>
<td>Harvard University</td>
</tr>
<tr>
<td>3-4 years Foreign Language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 years Academic Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SAT (verbal and math) 1220-1600</td>
<td></td>
</tr>
<tr>
<td></td>
<td>*Check with school of choice to determine if writing component is required for ACT and/or SAT</td>
<td></td>
</tr>
</tbody>
</table>
## 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

<table>
<thead>
<tr>
<th>Institution</th>
<th>High School GPA</th>
<th>ACT</th>
<th>SAT* Taken March 2016 &amp; After</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mid-50% GPA range of admitted students (4.0 scale - includes weighted GPAs)</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>
</tr>
<tr>
<td>University of Colorado Boulder</td>
<td>3.44 - 4.00</td>
<td>25 - 31</td>
<td>1180 - 1350</td>
</tr>
<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>
</tr>
<tr>
<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.

Colorado Community Colleges are open admission in mission and do not have admission requirements.

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

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**Guidelines for College Admissions**
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:

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  
5900, 5901

**2nd Year**  
Principles of Animal & Vet Science A/B (BHS & TVHS)  
5910, 5911  
Principles of Plant Science A/B (BHS)  
5912, 5913  
Principles of Horticulture Science A/B (TVHS)  
5914, 5915  
Principles of Natural Resource Management A/B (TVHS)  
5916, 5917

**3rd Year**  
Animal Production A/B (BHS)  
5920, 5921  
Crop Production & Management / Greenhouse Production (BHS)  
5930, 5931  
Principles of Animal & Vet Science A/B (TVHS)  
5910, 5911  
Principles of Horticulture Science A/B (TVHS)  
5914, 5915  
Principles of Natural Resource Management A/B (TVHS)  
5916, 5917

*3rd Year High School Select: Postsecondary Credit Options Available through Front Range Community College*  
**AP Biology – 3026 / 3027** – eligible for **General College Biology**  
BIO 111 – 5 college credits

**4th Year**  
Agriculture Capstone/Agriculture Leadership (BHS & TVHS)  
5984, 5985  
Pathfinder Internship – Agriculture, Food and Natural Resources  
5083

*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.*
### 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>Invention and Design</td>
<td>8300</td>
</tr>
<tr>
<td></td>
<td>Construction 1*</td>
<td>8310, 8311</td>
</tr>
<tr>
<td>2nd</td>
<td>Construction 2*</td>
<td>8312</td>
</tr>
<tr>
<td></td>
<td>Geometry in Construction</td>
<td>2024, 2025, 8314, 8315</td>
</tr>
<tr>
<td></td>
<td>Technical Drawing</td>
<td>8302, 8303</td>
</tr>
<tr>
<td></td>
<td>Postsecondary Credit Options</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Available through High School Select:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AIMS Community College</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8310 / 8311 / 8312 - eligible for Carpentry credit</td>
<td>CAR 100, CAR 101, CAR 102 – 3 college credits total</td>
</tr>
<tr>
<td>3rd</td>
<td>Architectural Drawing</td>
<td>8304, 8305</td>
</tr>
<tr>
<td></td>
<td>Project Design Team</td>
<td>8306, 8307</td>
</tr>
<tr>
<td>4th</td>
<td>Pathfinder Internship – STEM, Arts, Design and Information Technology</td>
<td>5085</td>
</tr>
</tbody>
</table>

**Thompson Career Campus - Construction Skilled Trades**
## RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

<table>
<thead>
<tr>
<th>Year (1st)</th>
<th>Course</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Seminar</td>
<td>8142</td>
<td></td>
</tr>
<tr>
<td>Interior Design 1</td>
<td>8008</td>
<td></td>
</tr>
<tr>
<td>Fashion Design / Merchandising 1</td>
<td>8138</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year (2nd)</th>
<th>Course</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interior Design 2*</td>
<td>8009</td>
<td></td>
</tr>
<tr>
<td>Fashion Design / Merchandising 2</td>
<td>8140</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Year (3rd)</th>
<th>Course</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Year (4th)</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pathfinder Internship – STEM, Arts, design and Information Technology</td>
<td>5085</td>
</tr>
</tbody>
</table>
# Career Pathway: Business
Colorado Career Cluster - Business, Marketing and Public Administration

## RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

### 1st Year
- **Intro to Business and Marketing**
- **Accounting**
- **Business Law**
- **Finance**
- **Career Development**

### 2nd Year
- **Accounting 2**
- **Entrepreneurship 1**

### 3rd Year
- **Accounting 3**
- **Entrepreneurship 2**
- **Management**

### 4th Year
- **Business Work Experience**
- **Pathfinder Internship – Business, Marketing and Public Administration**

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intro to Business and Marketing</td>
<td>5018</td>
</tr>
<tr>
<td>Accounting</td>
<td>5014, 5015</td>
</tr>
<tr>
<td>Business Law</td>
<td>5019</td>
</tr>
<tr>
<td>Finance</td>
<td>5020</td>
</tr>
<tr>
<td>Career Development</td>
<td>5022</td>
</tr>
<tr>
<td>Accounting 2</td>
<td>5016</td>
</tr>
<tr>
<td>Entrepreneurship 1</td>
<td>5120, 5121</td>
</tr>
<tr>
<td>Accounting 3</td>
<td>5017</td>
</tr>
<tr>
<td>Entrepreneurship 2</td>
<td>5124, 5125</td>
</tr>
<tr>
<td>Management</td>
<td>5021</td>
</tr>
<tr>
<td>Business Work Experience</td>
<td>5030, 5031, 5032, 5033, 5034, 5035</td>
</tr>
<tr>
<td>Pathfinder Internship – Business, Marketing and Public Administration</td>
<td>5084</td>
</tr>
</tbody>
</table>
### RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

#### 1st Year
- **Computer Applications**
- **Computer Graphics Business 1**
- **Multi-Media Technology**
- **Programming Concepts**

#### 2nd Year
- **Computer Applications Advanced**
- **Computer Graphics Business 2**
- **GIS in Business**
- **Web Design**
- **AP Computer Science Principles**

#### 3rd Year
- **AP Computer Science A**
- **Computer Graphics Business 3- Animation**

**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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adobe Photoshop I</td>
<td>MGD 111 – 3 college credits</td>
</tr>
<tr>
<td>Adobe Photoshop II</td>
<td>MGD 211 – 3 college credits</td>
</tr>
<tr>
<td>Adobe Illustrator I</td>
<td>MGD 112 – 3 college credits</td>
</tr>
<tr>
<td>Adobe Illustrator II</td>
<td>MGD 212 – 3 college credits</td>
</tr>
</tbody>
</table>

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

#### 4th Year
- **Computer Graphics Business 4 – Advanced Animation**
- **Pathfinder Internship – Business, Marketing and Public Information**

**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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Animatics</td>
<td>MGD 142 – 3 college credits</td>
</tr>
<tr>
<td>2D Animation Production</td>
<td>MGD 152 – 3 college credits</td>
</tr>
<tr>
<td>Maya I</td>
<td>MGD 119 – 3 college credits</td>
</tr>
<tr>
<td>Maya II</td>
<td>MGD 219 – 3 college credits</td>
</tr>
</tbody>
</table>

CA Animation Certification upon completion of program. Certification counts towards the Animation Associate’s Degree at AIMS.
# Career Pathway: Computer and Information Sciences

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

## RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

<table>
<thead>
<tr>
<th>Year</th>
<th>Course 1</th>
<th>Course 2</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Year</td>
<td>Intro to Electronics and Programming</td>
<td>Programming Concepts</td>
<td>5256, 5257</td>
</tr>
<tr>
<td></td>
<td>Intro to Robotics</td>
<td></td>
<td>5026</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>8420, 8421</td>
</tr>
<tr>
<td>2nd Year</td>
<td>Advanced Electronics and Programming</td>
<td>Robotics Leadership</td>
<td>8708, 8709</td>
</tr>
<tr>
<td></td>
<td>AP Computer Science Principles</td>
<td></td>
<td>8422, 8423</td>
</tr>
<tr>
<td></td>
<td>Link</td>
<td></td>
<td>5080, 5081</td>
</tr>
<tr>
<td>3rd Year</td>
<td>AP Computer Science A</td>
<td></td>
<td>5028, 5029</td>
</tr>
</tbody>
</table>

**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

3.0 high school credits

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Course 1</th>
<th>Course 2</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>4th Year</td>
<td>Pathfinder Internship – STEM, Arts, Design and Information Technology</td>
<td></td>
<td>5085</td>
</tr>
</tbody>
</table>

**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

12 college credit hours

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
- A+ certification Program
- Network Security fundamentals

AIMS Loveland Campus Animation

**AIMS College Credit from Animation Career Pathway:**

- Digital Animatics
- 2D Animation Production
- Maya I
- Maya II

12 college credit hours

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

**Thompson Career Campus – Information Technology**
## Career Pathway: Education and Training
Colorado Career Cluster - Hospitality, Human Services and Education

### RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Year</td>
<td>Child and Adolescent Development</td>
<td>8125</td>
</tr>
<tr>
<td>2nd Year</td>
<td>Early Childhood Education 101</td>
<td>8012</td>
</tr>
<tr>
<td></td>
<td>Early Childhood Education 102</td>
<td>8013</td>
</tr>
<tr>
<td>3rd Year</td>
<td>Teacher Cadet 1</td>
<td>8014, 8015</td>
</tr>
<tr>
<td>4th Year</td>
<td>Teacher Cadet 2</td>
<td>8016, 8017</td>
</tr>
<tr>
<td></td>
<td>Pathfinder Internship – Hospitality, Human Services and Education</td>
<td>5086</td>
</tr>
</tbody>
</table>
# RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

<table>
<thead>
<tr>
<th>1st Year</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Computer Graphics Art 1</strong></td>
<td>6608</td>
</tr>
<tr>
<td><strong>Drawing 1</strong></td>
<td>6600</td>
</tr>
<tr>
<td><strong>Photography 1</strong></td>
<td>6622</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2nd Year</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Painting 1</strong></td>
<td>6604</td>
</tr>
<tr>
<td><strong>Computer Graphics Arts 2</strong></td>
<td>6610</td>
</tr>
<tr>
<td><strong>Drawing 2</strong></td>
<td>6602</td>
</tr>
<tr>
<td><strong>Photography 2</strong></td>
<td>6624</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3rd Year</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Painting 2</strong></td>
<td>6606</td>
</tr>
<tr>
<td><strong>Photography 3</strong></td>
<td>6626</td>
</tr>
<tr>
<td><strong>Digital Animatics</strong></td>
<td>MGD 142 – 3 college credits</td>
</tr>
<tr>
<td><strong>2D Animation Production</strong></td>
<td>MGD 152 – 3 college credits</td>
</tr>
<tr>
<td><strong>Maya I</strong></td>
<td>MGD 119 – 3 college credits</td>
</tr>
<tr>
<td><strong>Maya II</strong></td>
<td>MGD 219 – 3 college credits</td>
</tr>
</tbody>
</table>

**Pathfinder Internship – Arts, A/V Technology and Communication** TBD
RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

YEAR 1
GATEWAY LEVEL COURSES- FRCC
Semester 1- Nurse Aide Health Care Skills & Nurse Aide Clinical Experiences
Health Science 1 AM 5200
Health Science 1 PM 5202

APPLICATION LEVEL COURSES - FRCC
Semester 2- Medical Office Administration/Intro. to Med Terminology
Health Science 1 AM 5204
Health Science 1 PM 5202

YEAR 2
Semester 3- Disease Process & Treatment/Pharmacology
Health Science 2 AM 5210
Health Science 2 PM 5212

Semester 4- Med Assistant Lab, Clinical Skills
Health Science 2 AM 5214
Health Science 2 PM 5216

Thompson Career Campus – Health Sciences
<table>
<thead>
<tr>
<th>Year</th>
<th>Course Sequence</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>Culinary Careers and Nutrition</td>
<td>8018</td>
</tr>
<tr>
<td>2nd</td>
<td>Catering</td>
<td>8006, 8007</td>
</tr>
<tr>
<td>3rd</td>
<td>ProStart 1, Catering Advanced</td>
<td>8134, 8135</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8026, 8027</td>
</tr>
<tr>
<td>4th</td>
<td>ProStart 2, Pathway Internship – Hospitality, Human Services and Education</td>
<td>8136, 8137</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5086</td>
</tr>
</tbody>
</table>

*Postsecondary Credit Options Available through High School Select:

- Metro State Enrollment College Credit:
  - 8134 / 8135 – eligible for Food Fundamentals
  - 8136 / 8137 – eligible for Food Preparation and Sanitation
  - HTE 1533 – 3 college credits
  - HTE 1603 – 3 college credits
# RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

## 1st Year
- **AMPED – Algebra 1 in Manufacturing Processes, Entrepreneurship and Design**
  - 8424, 8425
- **Basic Shielded Metal Arc 1**
  - 5590
- **Intro to Gas Metal Arc Welding**
  - 5683
- **Invention and Design**
  - 8300
- **Manufacturing 1**
  - 8330
- **Intro to Robotics**
  - 8420, 8421
- **Safety for Welders**
  - 5743
- **Transportation 1**
  - 8320

*Postsecondary Credit Options Available through High School Select:

**Front Range Community College**
- 5683 – eligible for Basic Shielded Metal Arc 1
- 5743 – eligible for Safety for Welders

## 2nd Year
- **Transportation 2**
  - 8322, 8323
- **Manufacturing 2**
  - 8332, 8333
- **Robotics Leadership**
  - 8422, 8423

## 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 100 – 1 college credit
- 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

**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 Automotive Technology & Service**
- 3.0 high school credits

**FRCC College Credit from Career Pathway:**
- Auto Shop Orientation
  - ASE 101 – 2 college credits
- Brakes I
  - ASE 110 – 2 college credits
- Steering & Suspension
  - ASE 140 – 2 college credits
- Basic Auto Electricity
  - ASE 120 – 2 college credits
- General Engine Diagnosis
  - ASE 130 – 2 college credits

* 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.
4th Year

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

**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**

FRCC College Credit from Career Pathway:
- Intro to Gas Tungsten Arc Welding
- Advanced Gas Tungsten Arc Welding

*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*

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**Thompson Career Campus - Construction Skilled Trades**

**TCC Construction Pathway**
## Career Pathway: Life Skills
Colorado Career Cluster - Hospitality, Human Services and Education

### RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>Teen Challenges and Choices</td>
<td>8000</td>
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<td>Nutrition and Wellness</td>
<td>8020</td>
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<tr>
<td>2nd</td>
<td>Life Management</td>
<td>8001</td>
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<td>3rd</td>
<td>Relationships</td>
<td>8002</td>
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<tr>
<td>4th</td>
<td>Pathway Internship – Hospitality, Human Services and Education</td>
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<td>Year</td>
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<td>1st</td>
<td>Intro to Business and Marketing</td>
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<td>Sports and Entertainment Marketing</td>
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<td>2nd</td>
<td>Entrepreneurship 1</td>
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<td>Social Media and Advertising</td>
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<td>3rd</td>
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<td><strong>1st Year</strong></td>
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<tr>
<td>Introduction to Engineering Design*</td>
<td>8400, 8401</td>
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<tr>
<td>Principles of Engineering*</td>
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<td><strong>Postsecondary Credit Options Available through High School</strong></td>
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<tr>
<td>University of Colorado at Colorado Springs</td>
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<tr>
<td>8400 / 8401 – eligible for Introduction to Engineering Design</td>
<td>ENGR 1503 – 2 college credits</td>
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<tr>
<td>8402 / 8403 – eligible for Principles of Engineering</td>
<td>ENGR 1502 – 3 college credits</td>
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<td><strong>2nd Year</strong></td>
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<td>Computer Integrated Manufacturing</td>
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<tr>
<td>Aerospace Engineering</td>
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<tr>
<td>Engineering Design and Development</td>
<td>8414, 8515</td>
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<td>Environmental Sustainability</td>
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<td>2nd Year</td>
<td>Video Production 2</td>
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<td>Video Communication 1</td>
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<td>3rd Year</td>
<td>Video Communication 2</td>
<td>6632, 6633</td>
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<td>4th Year</td>
<td>Pathfinder Internship – Arts, A/V Technology and Communication</td>
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</table>
Agricultural Science

Students who take Agricultural courses may join FFA - All grades

The Agricultural program is located at Berthoud High and Thompson Valley. Transportation may be arranged for students at other high schools who wish to participate in this program.

AGRICULTURE CAPSTONE / AGRICULTURE LEADERSHIP  
5984, 5985
BHS, TVHS
Credit: 1.0 Career Pathway Elective
Recommended: Intro to Agricultural Science & Technology, Agriscience & one or 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

Principles of Animal & Vet Science A/B  
5910, 5911
BHS, TVHS
Credit: .50 Career Pathway Elective – Semester 1
Credit: .50 Science - Semester 2- (meets 3rd year requirement)
Recommended: Intro to Agriculture
Fee: $25 per semester
Pathway: Agricultural Science – Agriculture, Food and Natural Resources

In Principles of Animal & Vet Science A & B, students will:

• Develop knowledge, skills and understanding in the biological processes and physiological systems found in livestock and companion animal species
• Explore anatomy and physiology, growth and development, muscular and skeletal systems, integumentary system, respiratory and circulatory systems, nervous system, lymphatic and endocrine systems and excretory system
• Enhance knowledge about the scientific process including observation, hypothesizing, data gathering, interpretation, analysis and application
• Explore career opportunities and educational preparation
• 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
Students who take Agricultural courses may join FFA- All grades

The Agricultural program is located at Berthoud High and Thompson Valley. Transportation may be arranged for students at other high schools who wish to participate in this program.

**PATHFINDER INTERNSHIP – AGRICULTURE, FOOD AND NATURAL RESOURCES 5083**

BHS, LHS, MVHS, TVHS
Credit: .50 Career Pathway Elective
Pathway: Agricultural Science - Agriculture, Food and Natural Resources

In Pathway 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

**PRINCIPLES OF HORTICULTURE SCIENCE A/B 5914, 5915**

TVHS
Credit: .50 Career Pathway Elective - Semester 1
Credit: .50 Science - Semester 2 (meets 3rd year science requirement)
Pathway: Agricultural Science - Agriculture, Food and Natural Resources

In Principles of Horticulture Science A&B, students will:
- Introduce students to the horticulture industry
- Explore areas such as horticulture research and horticultural careers
- Enhance knowledge on plant anatomy, seed germination, plant propagation, growing media, pest management, hydroponics, identifying horticultural plants, soil science, and growing greenhouse crops
- Improve industry standard workplace skills
- 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

**PRINCIPLES OF NATURAL RESOURCE MANAGEMENT A/B 5916, 5917**

TVHS
Credit: 1.0 Career Pathway Elective
Recommended: Introduction to Agriculture
Fee: $25 per semester
Pathway: Agricultural Science - Agriculture, Food and Natural Resources

In Agriculture Capstone, students will:
- Explore careers in Natural Resources and Environmental Sciences
- Expand knowledge on the foundational principles of ecology including the fields of geology, meteorology, biology and chemistry related to the conservation, natural resources, and fish and wildlife management
- Develop an understanding of environmental issues and science
- 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
**Agricultural Science**

**Students who take Agricultural courses may join FFA- All grades**

*The Agricultural program is located at Berthoud High and Thompson Valley.* Transportation may be arranged for students at other high schools who wish to participate in this program.

**PRINCIPLES OF PLANT SCIENCE A/B**

<table>
<thead>
<tr>
<th>BHS</th>
<th>5912, 5913</th>
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</thead>
</table>

**Credit:** .50 Career Pathway Elective - Semester 1
**Credit:** .50 Science = Semester 2 (meets 3rd year science requirement)
**Recommended:** Introduction to Agriculture
**Fee:** $25 per semester
**Pathway:** Agricultural Science - Agriculture, Food and Natural Resources

In Principles of Plant Science A&B, students will:

- Develop knowledge about the growth, development, and reproduction of plants used for food, fiber, and beautification
- Explore topics such as plant anatomy and physiology, plant growth processes such as photosynthesis, propagation (reproduction) methods, taxonomy and classification, and plant identification
- Explore careers relevant to the plant science industry
- 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
**Students who take Agricultural courses may join FFA- All grades**

The Agriculture program is located Berthoud High and Thompson Valley. Transportation may be arranged for students at other high schools who wish to participate in this program.

### INTRODUCTION TO AGRICULTURE

<table>
<thead>
<tr>
<th>Code</th>
<th>BHS, TVHS</th>
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<tbody>
<tr>
<td>Credit</td>
<td>1.0 Applied Arts / CTE</td>
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<tr>
<td>Fee</td>
<td>$25 per semester</td>
</tr>
<tr>
<td>Pathway</td>
<td>Agricultural Science – Agriculture, Food and Natural Resources</td>
</tr>
</tbody>
</table>

In Introduction to Agriculture, students will:

- Explore the foundational principles of agriculture, food and natural resources
- Gain knowledge in career development, leadership, personal development, communications
- Become familiar with agriculture topics such as animal science, plant science, natural resources, food science, power/structure and agribusiness.
- 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

### Animal Production A/B

<table>
<thead>
<tr>
<th>Code</th>
<th>BHS</th>
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<tbody>
<tr>
<td>Credit</td>
<td>.50 Career Pathway Elective – Semester 1</td>
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<tr>
<td>Credit</td>
<td>.50 Science - Semester 2 (meets 3rd year science requirement)</td>
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<tr>
<td>Fee</td>
<td>$25 per semester</td>
</tr>
<tr>
<td>Pathway</td>
<td>Intro to Agriculture, Principles of Animal &amp; Vet Science A/B</td>
</tr>
<tr>
<td>Pathway</td>
<td>Agricultural Science – Agriculture, Food and Natural Resources</td>
</tr>
</tbody>
</table>

In Principles of Animal Science Advanced students will:

- Explore the Animal production Systems
- Enhance their knowledge of "Farm to Table"
- Gain knowledge about Animal Reproduction and Genetics
- Understand Animal Nutrition and Feeding
- Become familiar with Animal Behavior
- 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 Agricultural 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

### Crop Production & Management/Greenhouse Production

<table>
<thead>
<tr>
<th>Code</th>
<th>BHS</th>
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<tbody>
<tr>
<td>Credit</td>
<td>.50 Career Pathway Elective – Semester 1</td>
</tr>
<tr>
<td>Credit</td>
<td>.50 Science - Semester 2 (meets 3rd year science requirement)</td>
</tr>
<tr>
<td>Fee</td>
<td>$25 per semester</td>
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<tr>
<td>Pathway</td>
<td>Introduction to Agriculture, Principles of Plant Science A/B</td>
</tr>
<tr>
<td>Pathway</td>
<td>Agricultural Science – Agriculture, Food and Natural Resources</td>
</tr>
</tbody>
</table>

In Crop Production & Management/ Greenhouse Production, students will:

- Explore sustainable agriculture
- Gain skills in planting, soil preparation, integrated pest mgt, harvest, handling and storing according to current industry standards,
Understand how to develop production plans
Enhance their knowledge of food/biosecurity, fertilizer mgt, and water mgt.
Understand plant identification
Explore greenhouse management
Become familiar with horticulture mechanics
Enhance understanding of Agribusiness which will cover operating a horticultural business, pricing work, advertising, and sales.
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
### Art

**AP DRAWING**  
6640, 6641

**AP 2-D ART AND DESIGN**  
6642, 6643

**AP 3-D ART AND DESIGN**  
6644, 6645

BHS, LHS, MVHS, TVHS  
Credit: 1.0 Fine Arts - per each year long course  
**Fee: $35 per semester**  
Recommended: Three or more art classes, two should be sequential; written approval of AP Studio Instructor  
Pathway: Graphic Design- Arts, A/V Technology and Communication

In AP Studio Arts, 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 of 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

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**ART EXPLORATION**  
6612  
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**  
6638, 6639  
LHS, MVHS, TVHS  
Credit: 1.0 Fine Arts  
Fee: Student pays for textbook and exam

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

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**COMMERCIAL ART**  
6612  
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

<table>
<thead>
<tr>
<th>LHS, MVHS, TVHS</th>
<th>6608</th>
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<tbody>
<tr>
<td>BHS (Grades 10, 11, 12)</td>
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<tr>
<td>Pathway: [Graphic Design] – Arts, A/V Technology and Communication</td>
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</table>

### FHS

| Credit: .25 Fine Arts            |      |
| Fee: $7.50 per quarter           |      |
| Pathway: [Graphic Design] – Arts, A/V Technology and Communication | |

*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

## COMPUTER GRAPHICS – ART 2

<table>
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</thead>
<tbody>
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<tr>
<td>Recommended: Computer Graphics - Art 1</td>
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</tr>
<tr>
<td>Fee: $15 per semester</td>
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<tr>
<td>Pathway: [Graphic Design] – Arts, A/V Technology and Communication</td>
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</tr>
</tbody>
</table>

*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, LHS, MVHS, TVHS
Credit: .50 Fine Arts
Fee: $20 per semester
Pathway: Graphic Design – Arts, A/V Technology and Communication

**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
BHS (Grades 10, 11, 12)
Credit: .50 Fine Arts
Recommended: Drawing 1
Fee: $20 per semester
Pathway: Graphic Design - Arts, A/V,

**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 artists, cultures or historical periods
- emphasis on drawing from observation (life drawing)

**IB DP VISUAL ARTS (SL)**

LHS
Credit: 1.0 Fine Arts

- 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 those who are seeking lifelong enrichment through visual arts.
**METALSMITHING/JEWELRY 1**

MVHS, TVHS  
BHS, LHS (Grades 10, 11, 12)  
Credit: .50 Fine Arts  
Fee: $30 per semester  
FHS  
Credit: .25 Fine Arts per quarter  
Fee: $15 per quarter

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’ artwork  
- apply appropriate problem-solving abilities to body ornamentation

**METALSMITHING/JEWELRY 2**

LHS, MVHS, TVHS  
Credit: .50 Fine Arts  
Fee: $30 per semester  
Recommended: Metalsmithing/Jewelry 1

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’ artwork  
- apply appropriate problem-solving abilities to body ornamentation

**PAINTING 1**

BHS, LHS, MVHS, TVHS  
Credit: .50 Fine Arts  
Fee: $20 per semester  
Recommended: Drawing 1  
Pathway: Graphic Design – Arts, A/V Technology and Communication  
FHS  
Credit: .25 Fine Arts per quarter  
Fee: $10 per quarter  
Pathway: Graphic Design – Arts, A/V Technology and Communication

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’ artwork  
- be exposed to art history as it relates to painting
**PAINTING 2**

LHS, MVHS, TVHS  
BHS (Grades 10, 11, 12)  
Credit: .50 Fine Arts  
Fee: $20 per semester  
Recommended: Drawing 1 and Painting 1  
Pathway: [Graphic Design](#) – Arts, A/V Technology and Communication

*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’ artwork

**PATHFINDER INTERNSHIP ARTS, A/V TECHNOLOGY & COMMUNICATION**

TBD  
Credit: TBD  
Pathway: Arts, A/V Technology and Communication

*In Pathfinder 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.
PHOTOGRAPHY 1 6622
LHS, MVHS
BHS, TVHS (Grades 10, 11, 12)
Credit: .50 Fine Arts
Fee: $40 per semester
Pathway: Graphic Design – Arts, A/V Technology and Communication
FHS 6622
Credit: .25 Fine Arts per quarter
Fee: $20 per quarter
Pathway: Graphic Design – Arts, A/V Technology and Communication

In Photography 1, students will:
• be introduced to basic darkroom printing
• 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
• learn to operate a DSLR camera manually controlling shutter speed and aperture

PHOTOGRAPHY 2 6624
LHS, MVHS, TVHS
BHS (Grades 10, 11, 12)
Credit: .50 Fine Arts
Fee: $40 per semester
Recommended: Photography 1
Pathway: Graphic Design – Arts, A/V Technology and Communication

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’ artwork
• continued exploration of digital photography (DSLR) and digital photographic editing

PHOTOGRAPHY 3 6626
LHS, MVHS
Credit: .50 Fine Arts
Recommended: Photography 1 and Photography 2
Fee: $40 per semester
Pathway: Graphic Design – Arts, A/V Technology and Communication

In Photography 3, students will:
• explore film and/or digital techniques on an individualized path
<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Location</th>
<th>Grade Levels</th>
<th>Credit</th>
<th>Fee</th>
<th>Additional Information</th>
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</thead>
</table>
| **SCULPTURE/CERAMICS 1**      | 6614 | LHS, MVHS, TVHS | Grades 10, 11, 12 | .50 Fine Arts | $20 per semester | 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’ artwork  
  - utilize the Design Cycle to understand the Artistic Process |
| **SCULPTURE/CERAMICS 2**      | 6616 | LHS, MVHS, TVHS | Grades 10, 11, 12 | .50 Fine Arts | $20 per semester | Recommended: Sculpture/Ceramics 1  
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 |
| **PRE-AP MUSIC**              | 6672, 6673 | TVHS |                   | 1.0 Fine Arts |              | In Pre AP Theatre student will: |

Thompson School District  
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Updated 2/3/21
# Art

## VIDEO COMMUNICATION 1

**TVHS**  
**Credit:** 1.0 Fine Arts  
**Fee:** $20 per semester  
**Recommended:** Video Production 1 and written permission of the video communication teacher given through letters of recommendation and an interview  
**Pathway:** [Video Production](#) – Arts, A/V Technology and Communication

*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

**TVHS**  
**Credit:** 1.0 Fine Arts  
**Fee:** $20 per semester  
**Recommended:** Video Communication 1 and written permission  
**Pathway:** [Video Production](#) – Arts, A/V Technology and Communication

*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

## VIDEO PRODUCTION 1

**LHS, MVHS, TVHS**  
**BHS (Grades 10, 11, 12)**  
**Credit:** .50 Fine Arts  
**Fee:** $30 per semester  
**Pathway:** [Video Production](#) – Arts, A/V Technology and Communication

**FHS**  
**Credit:** .25 Fine Arts per quarter  
**Fee:** $15 per quarter  
**Pathway:** [Video Production](#) – Arts, A/V Technology and Communication

*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**

TVHS

Credit: 1.0 Fine Arts  
Fee: $30 per semester  
Recommended: Video Production 1  
Pathway: [Video Production](#) – Arts, A/V Technology and Communication

MVHS

BHS (Grades 10, 11, 12)  
Credit: .50 Fine Arts  
Fee: $30 per semester  
Recommended: Video Production 1  
Pathway: [Video Production](#) – Arts, A/V Technology and Communication

*In Video Production 2, 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
- expand technical competency, artistry, and storytelling abilities
- research the history of television, video, and film production with discussions on their influence and impact on our culture
- evaluate and critique their own and others’ art work

**VIDEO PRODUCTION 3**

LHS, TVHS (Grades 11, 12)  
Credit: 1.0 Fine Arts  
Fee: $30 per semester  
Recommended: Video Production 1 and 2 or Instructor approval  
Pathway: [Video Production](#) – Arts, A/V Technology and Communication

*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.

**PRE AP VISUAL ARTS**

TVHS

Credit: 1.0 Fine Arts

*In Pre AP Visual Arts students will:*
# Business

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

## ACCOUNTING 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Pathway</th>
<th>Description</th>
</tr>
</thead>
</table>
| BHS, LHS, MVHS, TVHS | 5014, 5015 | **Business** - Business, Marketing and Public Administration | **In Accounting 1, students will:**
- understand the basic elements and concepts of accounting with emphasis on the procedures used for maintaining journals, ledgers, and other related records
- prepare accounting reports for sole proprietorships, partnerships, and corporations
- use a computerized accounting system

## ACCOUNTING 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Pathway</th>
<th>Description</th>
</tr>
</thead>
</table>
| LHS, MVHS, TVHS | 5016 | **Business** - Business, Marketing and Public Administration | **In Accounting 2, students will:**
- understand the theory and logic that underlie accounting principles
- 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

## ACCOUNTING 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Pathway</th>
<th>Description</th>
</tr>
</thead>
</table>
| MVHS, TVHS | 5017 | **Business** - Business, Marketing and Public Administration | **In Accounting 3, students will:**
- study accounting principles as they apply to partnerships and corporations
- receive instruction in stocks and bonds, investments, cash flow statements, financial analysis, budgeting, and cost and managerial accounting

## BUSINESS LAW

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Pathway</th>
<th>Description</th>
</tr>
</thead>
</table>
| BHS, LHS, MVHS, TVHS | 5019 | **Business** - Business, Marketing and Public Administration | **In Business Law, students will:**
- cover the foundations of the legal system as it applies to business and personal issues
- understand the basic elements of crime and tort law, contracts, ethics and the law, cyber law, property law, and employment law
- participate in case studies and mock trials
**Business Work Experience**
- CLASS  
  - 5030, 5031  
- INTERNSHIP  
  - 5032, 5033, 5034, 5035

BHS, FHS, MVHS, TVHS  
LHS (Grade 12)

Credit: 1.0 Applied Arts / CTE - Class  
Credit: 2.0 Applied Arts / CTE – Internship (awarded for 540 hours of documented work experience)

Fee: $5 per semester  
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**  
LHS, MVHS  
BHS, TVHS (Grades 11, 12)

Credit: .50 Applied Arts / CTE  
Fee: $5 per semester

Pathway: Business - Business, Marketing and Public Administration

*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**  
BHS, LHS, MVHS, TVHS

Credit: .50 Career Pathway Elective  
Fee: $5 per semester

Pathway: Business Information Technology - Business, Marketing and Public Administration

*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

**Computer Applications – Advanced**  
BHS, LHS, MVHS, TVHS

Credit: .50 Career Pathway Advanced Elective  
Fee: $5 per semester

Recommended: Computer Applications  
Pathway: Business Information Technology - Business, Marketing and Public Administration

Dual college credit may be available – see your school counselor for more information

*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
Business

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

- apply calculations, built-in functions, and spreadsheet design in Excel
- emphasize effective communication through computerized presentations in PowerPoint

**COMPUTER GRAPHICS – BUSINESS 1**  
5004
BHS, LHS, MVHS, TVHS
Credit: .50 Applied Arts / CTE
Fee: $15 per semester
Pathway: Business Information Technology - Business, Marketing and Public Administration

*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**  
5005
BHS, LHS, MVHS, TVHS
Credit: .50 Applied Arts / CTE
Fee: $15 per semester
Recommended: Computer Graphics Business 1
Pathway: Business Information Technology - Business, Marketing and Public Administration

*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

**COMPUTER GRAPHICS - BUSINESS 3 ANIMATION**  
5076
BHS, LHS, MVHS, TVHS (Grades 10, 11, 12)
Credit: .50 Applied Arts / CTE
Fee: $15 per semester
Recommended: Computer Graphics Business 1 and 2
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
Business

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**COMPUTER GRAPHICS - BUSINESS 4 ADVANCED ANIMATION** 5078
BHS, LHS, MVHS, TVHS (Grades 10, 11, 12)
Credit: .50 Applied Arts / CTE
Fee: $15 per semester
Recommended: Computer Graphics Business 1 and 2
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** 5028, 5029
BHS
MVHS, TVHS (Grades 10, 11, 12)
Credit: 1.0 Applied Arts / CTE
Fee: Student pays for Textbook and AP Exam
Recommended: Completion of Algebra 1 with a C or higher or teacher approval
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 understands 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
Credit: 1.0 Applied Arts / CTE
Fee: Student pays for textbook and AP Exam
Recommended: Completion of Algebra 1 with a C or higher
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:*
- Introduce 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
- Promotes deep learning of computational thinking skills and engages students in the creative aspects of the field.
- 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.
Students taking Business courses may join Future Business Leaders of America (FBLA)

**ENTREPRENEURSHIP 1**
BHS, LHS, MVHS, TVHS  
LHS (10, 11, 12 Grades)  
Credit: 1.0 Applied Arts / CTE  
Fee: $15 per semester  
Recommended: 1 year of business classes and teacher approval  
Pathway: Business and Marketing - Business, Marketing and Public Administration  
FHS  
Credit: .25 Applied Arts / CTE  
Fee: $7.50 per quarter  
Recommended: 1 year of business classes and teacher approval  
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 / CTE  
Fee: $15 per semester  
Recommended: Entrepreneurship 2 and teacher approval  
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

**IB DP BUSINESS AND MANAGEMENT SL**
LHS  
Credits: 1.0 Applied Arts / CTE  
Pathway: Business and Marketing - Business, Marketing and Public Administration  
*This class may be scheduled 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
### Business

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

#### FINANCE 5020

<table>
<thead>
<tr>
<th>BHS, LHS, MVHS, TVHS</th>
<th>Credit: .50 Applied Arts / CTE</th>
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<tbody>
<tr>
<td>Fee: $5 per semester</td>
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<tr>
<td>Pathway: <a href="#">Business</a> - Business, Marketing and Public Administration</td>
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</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

#### GLOBAL INFORMATION SYSTEM IN BUSINESS 5122

<table>
<thead>
<tr>
<th>Credit: .50 Applied Arts / CTE</th>
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<tbody>
<tr>
<td>Fee: $5 per semester</td>
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<tr>
<td>Pathway: <a href="#">Business Information Technology</a> - 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

#### INTRODUCTION TO BUSINESS AND MARKETING 5018

<table>
<thead>
<tr>
<th>BHS, FHS, LHS, MVHS, TVHS</th>
<th>Credit: .50 Applied Arts / CTE</th>
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<tbody>
<tr>
<td>Fee: $5 per semester</td>
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<tr>
<td>Pathway: <a href="#">Business</a> - Business, Marketing and Public Administration</td>
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</tr>
<tr>
<td>Pathway: <a href="#">Marketing</a> - Business, Marketing and Public Administration</td>
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</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.

#### MANAGEMENT 5021

<table>
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<th>FHS, MVHS, TVHS</th>
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<tr>
<td>Fee: $5 per semester</td>
</tr>
<tr>
<td>Pathway: <a href="#">Business</a> - Business, Marketing and Public Administration</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
Students taking Business courses may join Future Business Leaders of America (FBLA)

**MULTIMEDIA TECHNOLOGY**  5006
TVHS
Credit: .50 Applied Arts / CTE
Fee: $5 per semester
Pathway: [Business Information Technology](#) - Business, Marketing and Public Administration

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

**PATHFINDER INTERNSHIP - BUSINESS, MARKETING AND PUBLIC ADMINISTRATION**  5084
BHS, LHS, MVHS, TVHS
Credit: .50 Applied Arts / CTE
Pathway: Business and Marketing - Business, Marketing and Public Administration
Pathway: [Business Information Technology](#) - Business, Marketing and Public Administration
Pathway: Marketing – Business, Marketing and Public Administration

In *Pathfinder 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.

**PROGRAMMING CONCEPTS**  5026
BHS, LHS, MVHS, TVHS
Credit: .50 Applied Arts / CTE
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.
WEB DESIGN
BHS, LHS, MVHS, TVHS
Credit: .50 Applied Arts / CTE
Fee: $5 per semester
Pathway: Business Information Technology - Business, Marketing and Public Administration
Pathway: Computer and Information Sciences – STEM, Arts, Design and Information Technology
Pathway: Marketing - Business, Marketing and Public Administration

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
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.

**AP COMPUTER SCIENCE A**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>BHS</th>
<th>MVHS, TVHS (Grades 10, 11, 12)</th>
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<tbody>
<tr>
<td></td>
<td>Credit: 1.0 Applied Arts / CTE</td>
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<tr>
<td></td>
<td>Fee: Student pays for Textbook and AP Exam</td>
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<td></td>
<td>Recommended: Completion of Algebra 1 with a C or higher or teacher approval</td>
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<tr>
<td></td>
<td>Pathway: Business Information Technology - Business, Marketing and Public Administration</td>
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<td></td>
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</tbody>
</table>

In **AP Computer Science A**, students will:
- be introduced 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 understand the importance of communicating solutions appropriately and in ways that are relevant to current societal needs

**AP COMPUTER SCIENCE PRINCIPLES**

<table>
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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
- promotes deep learning of computational thinking skills and engages students in the creative aspects of the field.
- 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**

<table>
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<th>Course Code</th>
<th>LHS, MVHS (Grades 10, 11, 12)</th>
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<tbody>
<tr>
<td></td>
<td>Credit: 1.0 Applied Arts / CTE</td>
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<td></td>
<td>Fee: $20 per semester</td>
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<tr>
<td></td>
<td>Recommended: Introduction to Electronics and Programming or Teacher Recommendation</td>
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<tr>
<td></td>
<td>Pathway: Computer and Information Sciences - STEM, Arts, Design and Information Technology</td>
</tr>
</tbody>
</table>

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

**COMPUTER MAINTENANCE INDEPENDENT STUDY**

BHS, LHS, MVHS, TVHS
Credit: .50 Career Pathway Advanced Elective - per semester
Recommended: Written permission from the teacher

*In Pathway Internship, students will:*

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 ELECTRONICS AND PROGRAMMING**

LHS, MVHS
Credit: 1.0 Applied Arts
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"

**PATHWAY INTERNSHIP – STEM, ARTS, DESIGN AND INFORMATION TECHNOLOGY**

BHS, LHS, MVHS, TVHS
Credit: .50 Applied Arts / CTE
Pathway: Computer and Information Sciences - STEM, Arts, Design and Information Technology
Pathway: Project Lead the Way / Engineering - STEM, Arts, Design and Information Technology

*In Pathway 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
**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.

### PROGRAMMING CONCEPTS

**5026**

- **BHS, LHS, MVHS, TVHS**
- **Credit:** .50 Applied Arts / CTE
- **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.

### TECHNICAL SUPPORT INTERN

**5092**

- **BHS, LHS, MVHS, TVHS**
- **Credit:** .50 Applied Arts / CTE
- **Pathway:** Business Information Technology - Business, Marketing and Public Administration
- **Pathway:** Computer and Information Sciences – STEM, Arts, Design and Information Technology

Students learn the fundamentals of technical support of hardware and software systems through hands-on collaboration with school and district technical staff. Technical Support Interns will begin by learning how to provide customer service and how to use the ITS Help Desk Software System. Then interns will transition into providing service, hands-on troubleshooting, and repairs of malfunctioning hardware and software in their schools. After the first school year of participation, as interns gain advanced skills and expertise, options for online technical certification programs will be offered.
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 8420, 8421
LHS
Credit: 1.0 Applied Arts / CTE
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 / CTE
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 8436, 8437
LHS
Credit: 1.0 Applied Arts / CTE
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
• 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.
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
Credit: 1.0 Applied Arts / CTE
Fee: $20 per semester
Recommended: 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>
</tr>
</thead>
<tbody>
<tr>
<td>BHS, LHS, MVHS, TVHS</td>
<td>Credit: .25 Career Pathway Elective per semester</td>
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<table>
<thead>
<tr>
<th>AIDE – BUILDING</th>
<th>8640, 8641</th>
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<tbody>
<tr>
<td>BHS, LHS, MVHS, TVHS</td>
<td>Credit: .25 Career Pathway Elective per semester</td>
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<table>
<thead>
<tr>
<th>AIDE – GUIDANCE</th>
<th>8636, 8637</th>
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<tbody>
<tr>
<td>BHS, LHS, MVHS, TVHS</td>
<td>Credit: .25 Career Pathway Elective per semester</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>
</tr>
</thead>
<tbody>
<tr>
<td>BHS, LHS, MVHS, TVHS</td>
<td>Credit: .25 Career Pathway Elective per semester</td>
</tr>
<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>
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<tbody>
<tr>
<td>BHS, LHS, MVHS, TVHS</td>
<td>Credit: .25 Career Pathway Elective per semester</td>
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<table>
<thead>
<tr>
<th>AIDE – TEACHER</th>
<th>8648, 8649</th>
</tr>
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<tbody>
<tr>
<td>BHS, LHS, MVHS, TVHS</td>
<td>Credit: .25 Career Pathway Elective per semester</td>
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<thead>
<tr>
<th>CAMPUS LIBRARY INTERN</th>
<th>8750</th>
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</thead>
<tbody>
<tr>
<td>BHS</td>
<td>Credit: .5 Elective credit</td>
</tr>
</tbody>
</table>

Join your campus librarian(s) in creating a welcoming, engaging and inclusive library at your school! 
**As a Campus Library Intern, Students will:**
- Hone communication and collaboration skills
- Study library services/collections and make recommendations
- Engage their peers with the library as a space for learning and personal growth
- Develop expertise on information literacy
- Improve their school community through projects of personal interest.
### ACTING TECHNIQUES

**BHS, MVHS**  
Credit: .50 Career Pathway Elective  

*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

**MVHS, TVHS**  
Credit: .50 Career Pathway Elective  
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

**BHS, MVHS, TVHS**  
Credit: .50 Career Pathway Elective  
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

### COLLEGE READING AND THINKING

**MVHS, TVHS**  
BHS (Grades 11, 12)  
Credit: .50 Career Pathway Elective  

*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
### Electives – English Language Arts

**CREATIVE WRITING**  
MVHS, TVHS  
Credit: .50 Career Pathway Elective

*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 Career Pathway Elective

*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, MVHS, TVHS  
Credit: 1.0 Career Pathway Elective  
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

**MYTHOLOGY AND SCIENCE FICTION**  
BHS, MVHS, TVHS  
Credit: .50 Career Pathway Elective

*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

**SPEECH**  
BHS, MVHS, TVHS  
Credit: .50 Career Pathway Elective

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
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
## Electives – English Language Arts

### WOMEN AND THEIR LITERATURE  
**TVHS**  
Credit: .50 Career Pathway Elective

*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  
**TVHS**  
Credit: 1.0 Career Pathway Elective

*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 Career Pathway Elective  
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
**Electives – Industrial Science and Technology**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CODES</th>
<th>DESCRIPTION</th>
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</table>
| **COMPUTER MAINTENANCE INDEPENDENT STUDY**       | 8634, 8635 | MVHS, TVHS  
Credit: .50 Career Pathway Elective – per semester  
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

<table>
<thead>
<tr>
<th>COURSE</th>
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</table>
| **INTRODUCTION TO ARC GLOBAL INFORMATION SYSTEM** | 4104, 4105 | (not currently offered in any schools)  
Credit: 1.0 Career Pathway Elective  
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
The JROTC program is offered at Loveland High School. For the school year 2021-22, the program will be offered at BHS in the fall and MVHS in the spring. TVHS students will be transported to LHS for those that wish to participate in this program for both the fall and spring semesters.

**JROTC - LEVEL 1**

<table>
<thead>
<tr>
<th>Code</th>
<th>LHS/BHS/TVHS/MVHS</th>
<th>Credit:</th>
<th>Career Pathway Elective - Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>8618</td>
<td></td>
<td>.50 Fitness</td>
<td>(meets graduation fitness requirement)</td>
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<tr>
<td>8619</td>
<td></td>
<td>.50 Social Studies</td>
<td>(meets Civics Requirement)</td>
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</tbody>
</table>

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, Introduction to branches of the Armed Forces. Weapons safety and basic marksmanship skills, goal setting, drug abuse prevention, basic nutrition, and citizenship through history, drill and ceremonies, civic engagement and US Civics topics will also be introduced.

**JROTC - LEVEL 2**

<table>
<thead>
<tr>
<th>Code</th>
<th>LHS/BHS/TVHS/MVHS</th>
<th>Credit:</th>
<th>Career Pathway Elective</th>
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<tbody>
<tr>
<td>8620</td>
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<td>1.0</td>
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</tbody>
</table>

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, basic leadership, emergency first aid, drug abuse prevention, initial career exploration, technology awareness, topographical map reading, orienteering, weapons safety and basic marksmanship skills and basic formal presentation skills through character development.

**JROTC - LEVEL 3**

<table>
<thead>
<tr>
<th>Code</th>
<th>LHS/BHS/TVHS/MVHS</th>
<th>Credit:</th>
<th>Career Pathway Elective</th>
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<tbody>
<tr>
<td>8624</td>
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<td>1.0</td>
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</table>

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, military career opportunities, weapons safety and basic marksmanship skills.

**JROTC – LEVEL 4**

<table>
<thead>
<tr>
<th>Code</th>
<th>LHS/BHS/TVHS/MVHS</th>
<th>Credit:</th>
<th>Career Pathway Elective</th>
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<tbody>
<tr>
<td>8626</td>
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<td>1.0</td>
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</table>

Recommended: JROTC - Level 3

Dual college credit may be available – see your school counselor for more information

*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 and learning to instruct classes.
Electives - JROTC

JROTC – MARKSMANSHIP

LHS Only
Credit: .50 Career Pathway Elective
Fee: $10 per semester

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 coordination 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 shooter's 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 positions. Cadets who participate in competitions usually compete in “three-position air rifle” competitions. Opportunities for advanced marksmanship camps and training are available for cadets interested in enhancing their skills.
### Electives – Physical Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
</table>
| **Aquatics**         | 7603 | LHS, MVHS, TVHS  
Credit: .50 Career Pathway Elective  
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 Career Pathway Elective  
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 Career Pathway Elective  
Fee: $25 per semester  
Recommended: First Aid and Anatomy and Physiology recommended  
*students participate in a “lab” component that occurs outside the scheduled class time  
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 Career Pathway Elective  
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>Location</th>
<th>Credit</th>
<th>Fee</th>
<th>Recommended</th>
<th>Description</th>
</tr>
</thead>
</table>
| **FIRST AID**           | 7605 | LHS, MVHS, TVHS | .50 Career Pathway Elective | Set by Red Cross – approximately $35 | Participant must be 15 by the last day of class | In *First Aid*, students will:  
  - potential to earn American Red Cross certification  
  - 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 |
| **FIT FOR LIFE**        | 7623 | TVHS     | .50 Career Pathway Elective | $15 per semester plus $5 trip fee | | 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 |
| **LIFEGUARDING**        | 7604 | LHS, MVHS, TVHS | .50 Career Pathway Elective | Set by Red Cross - approximately $65 | 500-yard swim, retrieve 10-pound brick from 10-foot depth, must be 15 by the last day of the class | 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 |
| **LIFETIME SPORTS**     | 7613 | BHS, LHS, MVHS, TVHS | .50 Career Pathway Elective | $15 per semester plus $5 trip fee | | In *Lifetime Sports*, students will:  
  - become proficiently skilled at the individual lifetime activities; golf, tennis, tennis related activities, 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

### NET SPORTS

<table>
<thead>
<tr>
<th>BHS, LHS, MVHS, TVHS</th>
<th>7612</th>
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<tbody>
<tr>
<td>Credit: .50 Career Pathway Elective</td>
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</table>

**In Net Sports, students will:**
- be proficiently skilled in net games; tennis, volleyball, badminton, pickleball, table tennis, etc.
- know and understand the rules, techniques, and safety expectations of the activities
- demonstrate an understanding of fitness components of participating in warm-up and cool-down activities
- participate in lifetime activities

### SELF-DEFENSE

<table>
<thead>
<tr>
<th>TVHS, LHS</th>
<th>7602</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHS Females Only (Grades 10, 11, 12)</td>
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<tr>
<td>TVHS Females Only (All grades)</td>
<td></td>
</tr>
<tr>
<td>Credit: .50 Career Pathway Elective</td>
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</tbody>
</table>

**In Self-Defense, students will:**
- acquire techniques in avoiding potentially hazardous situations and respond appropriately when under personal attack
- NOT learn aggressive violence or offensive attack methods
- learn basic common sense techniques on how to avoid or defensively escape from violent personal attacks
- gain confidence in themselves and have a greater sense of self-reliance

### TEAM SPORTS

<table>
<thead>
<tr>
<th>BHS, LHS, MVHS, TVHS</th>
<th>7610</th>
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<tbody>
<tr>
<td>Credit: .50 Career Pathway Elective</td>
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</table>

**In Team Sports, students will:**
- become proficiently skilled in team games; 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

### WEIGHT TRAINING 1

<table>
<thead>
<tr>
<th>LHS, MVHS</th>
<th>7606</th>
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<tbody>
<tr>
<td>- Men’s Weight Training 1</td>
<td></td>
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<tr>
<td>- Women’s Weight Training 1</td>
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<tr>
<td>7608</td>
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<tr>
<td>Credit: .50 Career Pathway Elective</td>
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</tbody>
</table>

**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

### WEIGHT TRAINING 2

<table>
<thead>
<tr>
<th>BHS, MVHS, TVHS</th>
<th>7607</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Men’s Weight Training 2</td>
<td></td>
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<tr>
<td>- Women’s Weight Training 2</td>
<td></td>
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<tr>
<td>7609</td>
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<tr>
<td>LHS (Grades 10, 11, 12)</td>
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<td>Credit: .50 Career Pathway Elective</td>
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<tr>
<td>Recommended: Weight Training 1</td>
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</tbody>
</table>

**In Weight Training 2, students will:**
- learn lifetime fitness concepts including the principles of Overload, Progression, and Specificity
**Electives – Social Studies**

**CONTEMPORARY ISSUES**

BHS, TVHS  
LHS (Grades 11, 12)  
Credit: .50 Career Pathway Elective

*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
- develop life skills that will be applicable in the real world; research, reading, writing, and communication skills

**CRIMINAL JUSTICE PROGRAM**

- Introduction to Criminal Justice System 5712  
- Policing Systems 5746  
- Judicial Function 5748  
- Correctional Process 5750  

TVHS  
Credit: 1.0 Career Pathway Elective – total for program  
Dual college credit may be available – see your school counselor for more information

*In the Criminal Justice program, students will:*

- 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

**PHILANTHROPY AS CIVIC ENGAGEMENT**

BHS, LHS  
Credit: .50 Career Pathway Elective

*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
### Electives – Social Studies

#### PSYCHOLOGY 1

<table>
<thead>
<tr>
<th>Code</th>
<th>BHS, MVHS, TVHS</th>
<th>LHS (Grades 10, 11, 12)</th>
<th>Credit: .50 Career Pathway Elective</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Code</th>
<th>BHS, LHS, MVHS, TVHS</th>
<th>Credit: 1.0 Career Pathway Elective</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Fee: Student pays for textbook and AP Exam</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Code</th>
<th>MVHS, TVHS</th>
<th>Credit: .50 Career Pathway Elective</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Recommended: Psychology 1</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Code</th>
<th>BHS, MVHS, TVHS</th>
<th>LHS (Grades 11, 12)</th>
<th>Credit: .50 Career Pathway Elective</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Code</th>
<th>BHS</th>
<th>Credit: .50 Career Pathway Elective</th>
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<tbody>
<tr>
<td></td>
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<td>Fee: Student pays for textbook</td>
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<tr>
<td></td>
<td></td>
<td>Recommended: Junior or Senior</td>
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<tr>
<td></td>
<td></td>
<td>Dual college credit may be available – see your school counselor for more information</td>
</tr>
</tbody>
</table>

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
AVID (Advancement via Individual Determination)  8712, 8713
TVHS
Credit: 1.0 Career Pathway Elective
Application Process required visit https://www.thompsonschools.org/Page/17233
AVID’s mission is to close the opportunity gap by preparing all students for college readiness and success in a global society. Visit the international website here: https://www.avid.org/

To Apply Click Here: https://www.thompsonschools.org/Page/17233

AVID prepares all students for college readiness, whether students are planning to attend a community college, certificate program, or a 4-year university after high school.

In the AVID elective at TVHS students will be taught the skills they need to be successful in college. From organization & study skills to financial planning and life skills, AVID teaches both hard and soft skills. AVID creates a supportive environment for students to grow into independent young adults. Students learn a variety of skills & strategies to support them in all of their classes, and prepare them for the rigors of college. Students engage in career & major exploration, college campus visits, and receive tutoring twice a week in class. AVID students enjoy field trips, guest speakers, and access to current university students. The AVID elective becomes a home away from home, as cohorts of students stay together during their four years of high school. AVID students receive extra time and support in class as they apply for scholarships and college together.

BERTHOUD LEADERSHIP ACADEMY 9: TEEN CHALLENGES & CHOICES  8003
BHS (Grade 9)
Credit: .50 Career Pathway Elective

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

As a member of the 9th grade Teen Challenges and Choices cohort, BLA students will learn how to effectively make and positively impact the personal choices that affect well-being, relationships, and an individual’s future. Students will work with a variety of community groups and mentors to explore the many challenges that young adults face, including personal growth, 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 how to make a difference right now.

BERTHOUD LEADERSHIP ACADEMY 10: GLOBAL COMMUNICATION  8023
BHS (Grade 10)
Credit: .50 Career Pathway Elective

Students in BLA 10 will learn valuable speech skills such as delivery, intonation, eye-contact, relevance, etc. and apply them to real-world situations. Individuals who continue on in this course will also acquire knowledge about using social media to spread the word about important projects and community needs. In this course, students will be emphasizing their global communication skills and learn how to harness them in order to promote their projects as well as assisting juniors and seniors with their capstones (once students reach those levels) as sophomores will use social media and other outreach skills to help these upper classes promote their own ideas and projects. Here students will gain an understanding of how to use speech and presentation skills to reach out to the community to discuss issues pertaining to their local and global environment. Students in BLA 9 have learned about healthy choices and good decision making. This course will build on this learning from 9th grade and bring in the importance of good communication and understanding the different means to communicate for different audiences and purposes.

ELEMENTARY TUTOR  8628, 8629
BHS, LHS, MVHS
Credit: .50 Career Pathway Elective per semester
Electives – Student Leadership

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

FRESHMAN SEMINAR
8718, 8719
MVHS (Grade 9)
Credit: 1.0 Career Pathway Elective
Recommended: Instructor approval required

In Freshman Seminar, students will:
• prepare students for high school life academically, socially, and emotionally
• build the foundation of what it means to be a successful student and human being
• establish a strong culture and community and teach students what it means to be a Mountain View Mountain Lion

LEADERSHIP
8616, 8617
TVHS
Credit: .50 Career Pathway Elective – total credit for the entire year long course

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

PEER BUDDIES
8694
BHS, LHS, MVHS
TVHS (Grades 10, 11, 12)
Credit: .50 Career Pathway Elective
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
8632, 8633
BHS, LHS
Credit: 1.0 Career Pathway Elective
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
### SERVICE LEARNING

**LHS**

Credit: .50 Career Pathway Elective  
Pathway: Business Information Technology -Business, Marketing and Public Administration  
Pathway: Computer and Information Sciences -STEM, Arts, Design and Information Technology  
Pathway: Marketing -Business, Marketing and Public Administration

*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.

### SOCIAL EMOTIONAL LEARNING

**FHS**

Credit: .50 Elective

*In Social Emotional Learning, students will:*
Through both personal exploration and investigation of social, emotional, behavior, and mental health theories, students will learn more about who they are, their social and emotional strengths and areas for growth, and how that impacts their communication and relationships. Students will learn how to communicate effectively, maintain healthy positive relationships, navigate resources in the community, and create healthy boundaries with self and others in order to gain emotional stability.

### SOCIAL EMOTIONAL EDUCATION

**TVHS**

Credit: .50 Career Pathway Elective

*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**

BHS, LHS, TVHS  
Credit: 1.0 Career Pathway Elective  
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

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**STUDENT LEADERSHIP**

BHS, MVHS  
Credit: .25 Career Pathway Elective – total credit for the entire year long course

*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

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**TEEN COURT**

Municipal Courthouse – 810 E 10th Street in Loveland  
Credit: 2 hours of Community Service per session  
or  
Credit: .25 Career Pathway Elective – per semester

Sessions are held Tuesday afternoons at 3PM in the Loveland Municipal Courtroom when TSD is in session. Students must provide their own transportation to and from each session. For more information contact Tracy Evangelista, 613-5986 or visit [https://www.lovgov.org/services/municipal-court/loveland-teen-court](https://www.lovgov.org/services/municipal-court/loveland-teen-court)

*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.
In College Composition 1, students will:
• plan, write, and revise a minimum of three essays to include the evaluative, problem-solving, argumentative modes
• think critically and logically
• demonstrate appropriate language skills

In College Composition 2, students will:
• read, write, and think critically to evaluate, analyze, and synthesize information
• write analytical, evaluative, and/or persuasive papers that incorporate research
• apply writing, speaking, and technology to a project presentation

In ELA Language A: Creative Writing students will:
• have the opportunity to master the language performance indicators for all 9/10th graders while pursuing the students’ interest in creating writing.

In ELA Language A: The Graphic Novel students will:
• have the opportunity to master the language art performance indicators required for all 9th and 10th graders while pursuing student interest in graphic novels.

In ELA Language A: Honors students will:
• have the opportunity to meet ½ of the reading and writing performance indicators for all 9th and 10th graders while pursuing the students’ interest in academic writing and SAT prep.

In ELA Language A: The Language of Journalism students will:
• have the opportunity to master the language performance indicators for all 9th and 10th graders while exploring their interest in the field of journalism.
**ELA LANGUAGE A: THEATRE SCREEN AND SCRIPT STUDY**
LHS (Grade 9, 10)
Credit: .50 Language Arts

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

**ELA RW A: CREATIVE WRITING**
LHS (Grade 9, 10)
Credit: .50 Language Arts

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

**ELA RW A: HONORS**
LHS (Grade 9, 10)
Credit: .50 Language Arts

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

**ELA RW A: JOURNALISM**
LHS (Grade 9, 10)
Credit: .50 Language Arts

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

**ELA RW A: LITERACY**
LHS (Grade 9, 10)
Credit: .50 Language Arts

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

**ELA RW A: MYTHOLOGY AND SCIENCE FICTION**
LHS (Grade 9, 10)
Credit: .50 Language Arts

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

**ELA SL A: PUBLIC SPEAKING**
LHS Grade 9, 10
Credit: .50 Language Arts

*In ELA Speaking/Listening A: Public Speaking students will:*
- have the opportunity to meet ½ of the speaking and listening performance indicators for all 9th and 10th graders through a general survey of communication skills.
In **ELA Speaking/Listening A: Theatre** students will:

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

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

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

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

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

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.

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

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

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.
ELA RW C: CREATIVE WRITING
LHS Grade 11, 12
Credit: .50 Language Arts

In ELA Reading/Writing C: Creative Writing students will:
• have the opportunity to meet ½ of the reading and writing performance indicators for all 11th and 12th graders through the lens of storytelling and narrative technique.

ELA RW C: JOURNALISM
LHS Grade 11, 12
Credit: .50 Language Arts

In ELA Reading/Writing C: Journalism students will:
• have the opportunity to meet ½ of the reading and writing performance indicators for all 11/12th graders while allowing them to explore their interest in the field of journalism.

ELA RW C: LITERACY
LHS Grade 11, 12
Credit: .50 Language Arts

In ELA Reading/Writing C: Literacy students will:
• have the opportunity to meet ½ of the reading and writing performance indicators for all 11th and 12th graders through a survey of American and World literary classics.

ELA RW C: SCIENCE FICTION AND FANTASY
LHS Grade 11, 12
Credit: .50 Language Arts

In ELA Reading/Writing C: Science Fiction and Fantasy students will:
• This course allows students to meet the remaining 11/12th 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.

ELA LANGUAGE D: CREATIVE WRITING
LHS Grade 11, 12
Credit: .50 Language Arts

In ELA D: Creative Writing students will:
• have the opportunity to meet ½ of the reading and writing performance indicators for all 11th and 12th graders through the lens of storytelling and narrative technique.

ELA LANGUAGE D: THE GRAPHIC NOVEL
LHS Grade 11, 12
Credit: .50 Language Arts

In ELA Language D: The Graphic Novel students will:
• have the opportunity to master the language art performance indicators required for all 11th and 12th graders while pursuing student interest in graphic novels.
# English Language Arts

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td><strong>ELA LANGUAGE D: THE LANGUAGE OF JOURNALISM</strong></td>
<td>1916</td>
</tr>
<tr>
<td>LHS Grade 11, 12</td>
<td>Credit: .50 Language Arts</td>
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</table>

*In D: The Language of Journalism students will:*
- have the opportunity to meet ½ of the reading and writing performance indicators for all 11th and 12th graders while allowing them to explore their interest in the field of journalism.

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<tr>
<th>Course Description</th>
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<tbody>
<tr>
<td><strong>ELA LANGUAGE D: THEATRE SCREEN/SCRIPT STUDY</strong></td>
<td>1918</td>
</tr>
<tr>
<td>LHS Grade 11, 12</td>
<td>Credit: .50 Language Arts</td>
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</tbody>
</table>

*In ELA D: Theatre Screen/Script Study students will:*

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<th>Course Description</th>
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<tbody>
<tr>
<td><strong>ELA RW D: CREATIVE WRITING</strong></td>
<td>1902</td>
</tr>
<tr>
<td>LHS Grades 11, 12</td>
<td>Credit: .50 Language Arts</td>
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</tbody>
</table>

*In ELA Reading/Writing D: Creative Writing students will:*
- have the opportunity to meet the competencies / performance indicators of a 11th and 12th grade ELA class through the lens of creative writing.

<table>
<thead>
<tr>
<th>Course Description</th>
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<tbody>
<tr>
<td><strong>ELA RW D: JOURNALISM</strong></td>
<td>1922</td>
</tr>
<tr>
<td>LHS Grades 11, 12</td>
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</table>

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

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
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<tbody>
<tr>
<td><strong>ELA RW D: LITERACY</strong></td>
<td>1924</td>
</tr>
<tr>
<td>LHS Grades 11, 12</td>
<td>Credit: .50 Language Arts</td>
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*In ELA Reading/Writing D: Literacy students will:*

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<tr>
<th>Course Description</th>
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<tbody>
<tr>
<td><strong>ELA RW D: MYTHOLOGY AND SCIENCE FICTION</strong></td>
<td>1904</td>
</tr>
<tr>
<td>LHS Grades 11, 12</td>
<td>Credit: .50 Language Arts</td>
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</tbody>
</table>

*In ELA Reading/Writing D: Mythology and Science Fiction students will:*

<table>
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<tr>
<th>Course Description</th>
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<tbody>
<tr>
<td><strong>ELA SL D: 21st CENTURY SPEAKING SKILLS</strong></td>
<td>1908</td>
</tr>
<tr>
<td>LHS Grades 11, 12</td>
<td>Credit: .50 Language Arts</td>
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</tbody>
</table>

*In ELA Speaking/Listening D: Public Speaking 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.

<table>
<thead>
<tr>
<th>Course Description</th>
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<tbody>
<tr>
<td><strong>ELA SL D: ARGUMENTATION AND DEBATE</strong></td>
<td>1926</td>
</tr>
<tr>
<td>LHS Grades 11, 12</td>
<td>Credit: .50 Language Arts</td>
</tr>
</tbody>
</table>

*In ELA Speaking/Listening D: Argumentation and Debate 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.
ELA SL D: COLLEGE PUBLIC SPEAKING  
LHS Grades 11, 12  
Credit: .50 Language Arts  
Dual college credit may be available – see your school counselor for more information

*In ELA Speaking/Listening D: College Public Speaking students will:*  
- Have the opportunity to meet the speaking and listening performance indicators for all 11th and 12th graders through a college-level survey of communication skills required of the 21st century citizen.

ELA SL D: THEATRE  
LHS Grades 11, 12  
Credit: .50 Language Arts

*In ELA Speaking/Listening D: Theatre students will:*  
- This class is designed to provide students with the opportunity to master the 11th and 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.

ENGLISH 9  
BHS, FHS, MVHS, TVHS  
Credit: 1.0 Language Arts

*In English 9, 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

ENGLISH 9 PRE AP  
BHS, MVHS  
Credit: 1.0 Language Arts

*In English 9 Pre AP, students will:*  
- learn the same skills as in English 9, but at a more advanced and rigorous level.

PRE AP ENGLISH 1  
TVHS  
Credit: 1.0 Language Arts

*In English Pre AP English 1, students will:*  
- 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  
BHS, FHS, MVHS, TVHS  
Credit: 1.0 Language Arts

*In English 10, students will:*  
- understand and use parts of speech and punctuation mechanics correctly, understand the function of language  
- study and apply vocabulary
English Language Arts

- 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

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<tr>
<th>Course</th>
<th>Code</th>
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<tbody>
<tr>
<td>ENGLISH 10 PRE AP</td>
<td>1024, 1025</td>
</tr>
<tr>
<td>BHS, MVHS</td>
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</tr>
<tr>
<td>PRE AP ENGLISH 2</td>
<td>1028, 1029</td>
</tr>
<tr>
<td>TVHS</td>
<td></td>
</tr>
<tr>
<td>Credit: 1.0 Language Arts</td>
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</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

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>ENGLISH 11 AND MODERN AMERICA INTEGRATED</td>
<td>1044, 1045</td>
</tr>
<tr>
<td>- English 11 Integrated</td>
<td></td>
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<tr>
<td>- Modern America Integrated</td>
<td>4044, 4045</td>
</tr>
<tr>
<td>TVHS</td>
<td></td>
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<tr>
<td>Credit: 1.0 Language Arts – English 11 Integrated</td>
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<tr>
<td>Credit: 1.0 Social Studies – Modern America Integrated</td>
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</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>ENGLISH 12</td>
<td>1060</td>
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<tr>
<td>FHS, MVHS, TVHS</td>
<td></td>
</tr>
<tr>
<td>(Grade 12)</td>
<td></td>
</tr>
<tr>
<td>Credit: .50 Language Arts</td>
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</tr>
</tbody>
</table>

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**  1050, 1051
BHS, LHS, MVHS, TVHS Grades (11, 12)
Credit:  1.0 Language Arts
Fee:  Student pays for textbook and AP Exam

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**  1052, 1053
BHS, LHS, MVHS
TVHS (Grades 11, 12)
Credit:  1.0 Language Arts
Recommended: AP Language and Composition
Fee:  Student pays for textbook and AP Exam

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

**IB DP ENGLISH LANGUAGE A: LANGUAGE AND LITERATURE (HL)**

-Grade 11  1322, 1323
-Grade 12  1332, 1333
LHS
Credit:  1.0 Language Arts for each course

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 DP THEORY OF KNOWLEDGE (TOK)**

-Grade 11  4332
-Grade 12  4330
LHS
Credit:  .50 Career Pathway Elective

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.

**INTRODUCTION TO LITERATURE**  
TVHS  
Credit: .50 Language Arts  
Dual college credit may be available – see your school counselor for more information

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

**AP SEMINAR**  
TVHS  
Credit: 1.0 Language Arts

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.

**SPEECH - ADVANCED**  
TVHS  
Credit: .50 Language Arts  
Recommended: Speech  
Dual college credit may be available – see your school counselor for more information

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
**BAKING AND PASTRY**  
LHS  
Credit: 1.0 Elective credit

*Interested in learning how to bake breads, cakes, and pastries? Did you enjoy Catering? If so, this baking and pastry course is for you! It’s intended for students who are interested in baking and pastry or pursuing a career in the Hospitality and Culinary Industry. A combination of advanced food science, restaurant management, food preparation techniques, and real-world opportunities offer students the chance to develop their culinary skills, food knowledge, and become highly sought after employees within the local foodservice businesses.*

**CATERING**  
BHS, LHS, MVHS, TVHS  
Credit: 1.0 Applied Arts / CTE  
Recommended: Culinary Careers and Nutrition  
Fee: $25 per semester  
National certification is available  
Pathway: [Hospitality and Tourism](#) - Hospitality, Human Services and Education

*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.*

**CATERING ADVANCED**  
BHS, LHS, TVHS  
Credit: 1.0 Applied Arts / CTE  
Recommended: Culinary Careers and Nutrition and Catering  
Fee: $25 per semester  
Pathway: [Hospitality and Tourism](#) - Hospitality, Human Services and Education

*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.*

**CHILD AND ADOLESCENT DEVELOPMENT**  
BHS, FHS, LHS, MVHS, TVHS  
Credit: .50 Applied Arts / CTE  
Fee: $5 per semester  
Pathway: [Education and Training](#) - Hospitality, Human Services and Education

*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.*

**CULINARY CAREERS AND NUTRITION**  
BHS, FHS, LHS, MVHS, TVHS  
Credit: .50 Applied Arts / CTE  
Fee: $25 per semester  
Pathway: [Hospitality and Tourism](#) - Hospitality, Human Services and Education

*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?*
Family and Consumer Sciences

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

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.

**DESIGN SEMINAR**

LHS, MVHS  
Credit: .50 Applied Arts / CTE  
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**

LHS, TVHS  
Credit: .50 Applied Arts / CTE  
Recommended: Child and Adolescent Development, Education Exploration  
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**

TVHS (Grades 10, 11, 12)  
Credit: .50 Applied Arts / CTE  
Recommended: Child and Adolescent Development and Early Childhood Education 101  
Fee: $10 per semester  
Pathway: Education and Training - Hospitality, Human Services and Education

Dual college credit may be available – see your school counselor for more information

*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.

**EDUCATION EXPLORATION**

LHS, BHS  
Credit: .50 Applied Arts / CTE  
Fee: $10  
Pathway: Education and Training - Hospitality, Human Services and Education

*Education Exploration is a semester course designed to provide students with an overview of professions within education. Students will discover their own learning style and how learning styles impact teaching and the delivery of lessons. Experiences with various education professionals will enhance the understanding of classroom planning, licensure requirements, and career opportunities within school systems. This course includes a minimum of 15 extended learning hours, which may be outside of class time. With exemplary performance and instructor recommendation, students may apply for the Teacher Cadet program without meeting the 3.0 GPA requirements. The numbers for the Teacher Cadet program have been low; this course will help build interest with students to help them go onto ECE 101 & 102 and/or Teacher Cadet. This course also meets the criteria for Perkins funding as it has received Career and Technical Program approval by the state and is being taught at other Colorado high schools. There is a
Students who take Family and Consumers Sciences (FCS) courses may join FCCLA. 

There is a teacher shortage in Colorado right now, and this class could help build interest in students to explore career options in education.

**ELEMENTARY TUTOR**  
BHS, LHS, MVHS  
Credit: .50 Applied Arts / CTE per semester  
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

**FASHION DESIGN AND MERCHANDISING 1**  
LHS, MVHS  
Credit: .50 Applied Arts / CTE  
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.

**FASHION DESIGN AND MERCHANDISING 2**  
MVHS  
Credit: .50 Applied Arts / CTE  
Recommended: Fashion Design and Merchandising 1  
Fee: $25 per semester  
Pathway: Arts and Visual Design - Hospitality, Human Services and Education  

*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.

**INTERIOR DESIGN 1**  
BHS, LHS, MVHS, TVHS (Grades 10, 11, 12)  
Credit: .50 Applied Arts / CTE  
Recommended: Design Seminar at LHS and MVHS  
Fee: $20 per semester  
Pathway: Arts and Visual Design - Hospitality, Human Services and Education  

*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.
Family and Consumer Sciences

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

**INTERIOR DESIGN 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>BHS, MVHS, TVHS (Grades 10, 11, 12)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit</td>
<td>.50 Applied Arts / CTE</td>
</tr>
<tr>
<td>Recommended</td>
<td>Interior Design 1</td>
</tr>
<tr>
<td>Fee</td>
<td>$20 per semester</td>
</tr>
<tr>
<td>Pathway</td>
<td><strong>Arts and Visual Design</strong> - Hospitality, Human Services and Education</td>
</tr>
<tr>
<td>Dual college credit may be available – see your school counselor for more information</td>
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</tbody>
</table>

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.

**INTRODUCTION TO HEALTH SCIENCE**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>BHS, MVHS, TVHS (Grades 10, 11, 12)</th>
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</thead>
<tbody>
<tr>
<td>Credit</td>
<td>1.0 Career Pathway Elective</td>
</tr>
<tr>
<td>Pathway</td>
<td><strong>Health Sciences</strong> - 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>BHS, LHS, MVHS, TVHS (Grades 11, 12)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit</td>
<td>.50 Applied Arts / CTE</td>
</tr>
<tr>
<td>Fee</td>
<td>$5 per semester</td>
</tr>
<tr>
<td>Pathway</td>
<td><strong>Life Skills</strong> - Hospitality, Human Services and Education</td>
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</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>
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<tr>
<th>Course Code</th>
<th>BHS, LHS, MVHS, TVHS</th>
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<tbody>
<tr>
<td>Credit</td>
<td>.50 Fitness or Applied Arts</td>
</tr>
<tr>
<td>Fee</td>
<td>$25 per semester</td>
</tr>
<tr>
<td>Pathway</td>
<td><strong>Life Skills</strong> - 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...
Family and Consumer Sciences

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

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.

PROSTART 1 8134, 8135
MVHS, TVHS (Grades 11, 12)
Credit: 1.0 Applied Arts / CTE
Fee: $75 per semester
Recommended: Instructor Approval
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 8136, 8137
MVHS, TVHS
Credit: .50 Applied Arts / CTE – Semester 1
Credit: .50 Social Studies (Economics) – Semester 2
Fee: $75 per semester
Recommended: ProStart 1 and instructor approval
Pathway: Hospitality and Tourism - Hospitality, Human Services and Education
* College credit may be available

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 8002
LHS, MVHS, TVHS (Grades 11, 12)
Credit: .50 Applied Arts / CTE
Fee: $5 per semester
Pathway: Life Skills - Hospitality, Human Services and Education
RELATIONSHIPS 8002
FHS
Credit: .25 Applied Arts / CTE
Fee: $2.50 per quarter
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.
Family and Consumer Sciences

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

TEACHER CADET 1 8014, 8015
BHS (Grades 11, 12)
Credit: 1.0 Applied Arts / CTE
Fee: $5 per semester
Recommended: Application Process Required
Pathway: Education and Training - Hospitality, Human Services and Education
* College credit may be available

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.

TEACHER CADET 2 8016, 8017
BHS (Grade 12)
Credit: 1.0 Applied Arts / CTE
Fee: $5 per semester
Recommended: Completion of Teacher Cadet 1 with Instructor permission
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, LHS, MVHS, TVHS
Credit: .50 Health or Applied Arts
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 Health
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>Aerospace Engineering</th>
<th>MVHS</th>
<th>8410, 8411</th>
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</thead>
<tbody>
<tr>
<td>Credit: 1.0 Applied Arts / CTE</td>
<td>Fee: $30 per semester</td>
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<tr>
<td>Recommended: Introduction to Engineering Design or Principles of Engineering</td>
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<tr>
<td>Pathway: <a href="#">Project Lead the Way</a> / Engineering - STEM, Arts, Design and Information Technology</td>
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</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

| AMPED PROGRAM - ALGEBRA 1 in Manufacturing Processes, Entrepreneurship and Design |
|---------------------------------|---------------------------------|
| Algebra 1 | 2090, 2091 |
| Manufacturing Processes, Entrepreneurship and Design | 8424, 8425 |
| LHS |  |
| Credit: 1.0 Math – Algebra 1 | Credit: 1.0 Applied Arts / CTE – Manufacturing Processes, Entrepreneurship and Design |
| 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

<table>
<thead>
<tr>
<th>Architectural Drawing</th>
<th>TVHS</th>
<th>8304, 8305</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit: 1.0 Applied Arts / CTE</td>
<td>Fee: $15 per semester</td>
<td></td>
</tr>
<tr>
<td>Recommended: Technical Drawing</td>
<td></td>
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<tr>
<td>Pathway: <a href="#">Architecture and Construction</a> - STEM, Arts, Design and Information Technology</td>
<td></td>
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</tr>
</tbody>
</table>

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

### CONSTRUCTION 1
MVHS, TVHS
Credit: 1.0 Applied Arts / CTE
Fee: $25 per semester
Pathway: [Architecture and Construction](#) - STEM, Arts, Design and Information Technology

<table>
<thead>
<tr>
<th>MVHS</th>
<th>TVHS</th>
<th>8310, 8311</th>
</tr>
</thead>
</table>

BHS
Credit: .50 Applied Arts / CTE
Fee: $25 per semester
Pathway: [Architecture and Construction](#) - STEM, Arts, Design and Information Technology

Dual college credit may be available – see your school counselor for more information

*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
BHS, MVHS

<table>
<thead>
<tr>
<th>MVHS</th>
<th>8312</th>
</tr>
</thead>
</table>

TVHS
Credit: .50 Applied Arts / CTE per semester
Fee: $25 per semester
Recommended: Construction 1
Pathway: [Architecture and Construction](#) - STEM, Arts, Design and Information Technology

Dual college credit may be available – see your school counselor for more information

*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

### ENGINEERING DESIGN AND DEVELOPMENT
MVHS
Credit: 1.0 Applied Arts / CTE
Fee: $30 per semester
Recommended: Introduction to Engineering Design and Principles of Engineering
Pathway: [Project Lead the Way](#) / Engineering - STEM, Arts, Design and Information Technology

*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
**Industrial Science and Technology**

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

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**ENGINEERING YOUR WORLD**

TVHS  
Credit: 1.0 Applied Arts / CTE  
Fee: $30 per semester  
Pathway: [Project Lead the Way](#) / Engineering - STEM, Arts, Design and Information Technology

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

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**PATHWAY INTERNSHIP – STEM, ARTS, DESIGN AND INFORMATION TECHNOLOGY**

BHS, LHS, MVHS, TVHS  
Credit: .50 Applied Arts / CTE  
Pathway: [Architecture and Construction](#) - STEM, Arts, Design and Information Technology  
Pathway: [Project Lead the Way](#) / Engineering – STEM, Arts, Design and Information Technology

In *Pathway 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

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**GEOMETRY IN CONSTRUCTION**

- Geometry  
- Construction  
LHS, TVHS  
Credit: 1.0 Math – Geometry  
Credit: 1.0 Applied Arts / CTE - Construction  
Fee: $30 per semester  
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
Industrial Science and Technology

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 / CTE
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: .5 Applied Arts / CTE
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 / CTE
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
### MANUFACTURING 2

MVHS, TVHS  
Credit: 1.0 Applied Arts / CTE  
Fee: $15 per semester  
Recommended: Manufacturing 1 or Geometry in Construction  
Pathway: Industrial Science and Technology - STEM, Arts, Design and Information Technology

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

BHS, MVHS  
Credit: 1.0 Applied Arts / CTE  
Fee: $30 per semester  
Recommended: Introduction to Engineering Design  
Pathway: Project Lead the Way / Engineering - STEM, Arts, Design and Information Technology  
*College credit may be available*

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.  
- develop skills in problem solving, research, and design while learning strategies for design process, documentation, collaboration, and presentation

### PROJECT DESIGN TEAM

LHS, TVHS  
Credit: 1.0 Applied Arts / CTE  
Fee: $15 per semester  
Recommended: Teacher approval and two levels of any Industrial Technology course  
Pathway: Architecture and Construction - STEM, Arts, Design and Information Technology

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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>MVHS, TVHS</th>
<th>Credit: 1.0 Applied Arts / CTE</th>
<th>Fee: $15 per semester</th>
</tr>
</thead>
</table>

**Recommended:** Invention and Design or Geometry in Construction

**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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>TVHS</th>
<th>Credit: .50 Applied Arts / CTE</th>
<th>Fee: $15 per semester</th>
</tr>
</thead>
</table>

**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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>TVHS</th>
<th>Credit: 1.0 Applied Arts / CTE</th>
<th>Fee: $15 per semester</th>
</tr>
</thead>
</table>

**Recommended:** Transportation 1

**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**
- Introduction to Gas Metal Arc Welding 5683
- Safety for Welders 5743
- Basic Shielded Metal Arc 5590

TVHS
Credit: .25 Applied Arts / CTE - Intro to Gas Metal Arc Welding
Credit: .25 Applied Arts / CTE - Safety for Welders
Credit: .50 Applied Arts / CTE - Basic Shielded Metal Arc
Fee: $15 per semester
Pathway: Industrial Science and Technology - STEM, Arts, Design and Information Technology
Dual college credit may be available – see your school counselor for more information

**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 weldability of metals, structural joints, and safety in the welding industry

**Basic Shielded Metal Arc 1, 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
Marketing

Students taking Marketing courses may join DECA

**CAREER DEVELOPMENT**

5022

BHS, LHS, MVHS
TVHS (Grades 11, 12)
Credit: .50 Applied Arts / CTE
Fee: $5 per semester
Pathway: Marketing - Business, Marketing and Public Administration

*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 GRAPHICS – BUSINESS 1**

5004

BHS, LHS, MVHS, TVHS
Credit: .50 Applied Arts / CTE
Fee: $15 per semester
Pathway: Business Information Technology - Business, Marketing and Public Administration

*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

**COMPUTER GRAPHICS – BUSINESS 2**

5005

BHS, LHS, MVHS, TVHS
Credit: .50 Applied Arts / CTE
Recommended: Computer Graphics – Business 1
Fee: $15 per semester
Pathway: Business Information Technology - Business, Marketing and Public Administration

*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
Students taking Marketing courses may join DECA.

**COMPUTER GRAPHICS 3 – ANIMATION**

BHS, LHS (Grades 10, 11, 12)
Credit: .50 Applied Arts / CTE
Fee: $15 per semester
Recommended: Computer Graphics Business 1 and 2
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 / CTE
Fee: $15 per semester
Recommended: Computer Graphics Business 1 and 2
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 / CTE
Fee: $15 per semester
Recommended: 1 year of business classes and teacher approval
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
Students taking Marketing courses may join DECA.

**ENTREPRENEURSHIP 2**

<table>
<thead>
<tr>
<th>BHS, LHS, MVHS, TVHS</th>
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<tbody>
<tr>
<td>Credit: 1.0 Applied Arts / CTE</td>
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<tr>
<td>Fee: $15 per semester</td>
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<tr>
<td>Recommended: Entrepreneurship 1 and teacher approval</td>
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<tr>
<td>Pathway: Marketing - Business, Marketing and Public Administration</td>
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</tbody>
</table>

*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

**PATHFINDER INTERNSHIP–BUSINESS, MARKETING AND PUBLIC ADMINISTRATION**

<table>
<thead>
<tr>
<th>BHS, LHS, MVHS, TVHS</th>
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<tr>
<td>Credit: .50 Applied Arts / CTE</td>
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<td>Pathway: Business – Business, Marketing and Public Administration</td>
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<tr>
<td>Pathway: Business Information Technology - Business, Marketing and Public Administration</td>
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<tr>
<td>Pathway: Marketing - Business, Marketing and Public Administration</td>
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</tbody>
</table>

*In Pathway 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 BUSINESS AND MARKETING**

<table>
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</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
- apply the marketing processes and strategies to business and the individual consumer
- develop hands-on projects using marketing principles
Students taking Marketing courses may join DECA.

**MARKETING RESEARCH**
LHS, MVHS, TVHS  
Credit: .50 Applied Arts  
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  
  LHS, TVHS (Grade 12)  
  Credit: 1.0 Applied Arts / CTE - Class  
- INTERNSHIP  
  LHS, TVHS (Grade 12)  
  Credit: 2.0 Applied Arts / CTE – 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

**SCHOOL BASED ENTERPRISE**
MVHS (Grades 10, 11, 12)  
Credit: 1.0 Applied Arts / CTE

This course introduces students to a school-based enterprise (SBE), which is an entrepreneurial operation in a school setting that provides goods/services to meet the needs of the market. SBEs are managed and operated by students as hands-on learning laboratories. SBEs provide realistic and practical learning experiences that reinforce classroom instruction. The products that students may sell may include spirit wear, food and beverage items, school supplies, signs and banners and more. A major component of the course is the successful management and operating of the school store. Additionally, students will enhance their knowledge of operations and management of the school store through the completion of learning modules that will cover the core concepts of a SBE in a blended learning environment. This course has been created by DECA and is being taught at high schools around the country using the DECA model, expectations, and scope and sequence.

**SOCIAL MEDIA AND ADVERTISING**
LHS, MVHS, TVHS  
Credit: .50 Applied Arts / CTE  
Fee: $5 per semester  
Recommended: 1 year of Marketing classes or teacher approval  
Pathway: Marketing - Business, Marketing and Public Administration  
Dual college credit may be available – see your school counselor for more information

*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
**Marketing**

Students taking Marketing courses may join DECA.

<table>
<thead>
<tr>
<th><strong>SPORTS AND ENTERTAINMENT MARKETING</strong></th>
<th>5040</th>
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<tbody>
<tr>
<td>LHS, MVHS, TVHS</td>
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<td>Pathway: Marketing - Business, Marketing and Public Administration</td>
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</table>

*In Sports and Entertainment Marketing, students will:*
- analyze the theoretical marketing processes and the strategies of product development, pricing, promotion, and distribution

<table>
<thead>
<tr>
<th><strong>WEB DESIGN</strong></th>
<th>5012</th>
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<tbody>
<tr>
<td>BHS, LHS, MVHS, TVHS</td>
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</tbody>
</table>

*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
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.

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.

In Algebra 1 IB MYP, 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.
**Mathematics**

**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

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

**In Algebra 2, students will:**
• 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

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.

**ALGEBRA 2 PRE AP**
BHS, 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**
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.

**ALGEBRA 2 IB MYP/HONORS**
LHS
Credit: 1.0 Math
Recommended: Geometry

**In Algebra 2 IB MYP, students will:**
Mathematics

- 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

ALGEBRA 2 HONORS AND PRE-CALCULUS HONORS

- Algebra 2 Honors 2054, 2055
- Pre-Calculus Honors 2070, 2071

LHS
Credit: 1.0 Math – Algebra 2 Honors
Credit: 1.0 Math – Pre-Calculus Honors
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
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
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
TVHS (Grade 12)
Credit: 1.0 Math
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
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
BHS, LHS, MVHS, TVHS
Credit: 1.0 Math
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

AP CALCULUS BC
BHS, LHS, MVHS, TVHS
Credit: 1.0 Math
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
Mathematics

**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.

**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](http://apcentral.collegeboard.com))

**COLLEGE ALGEBRA**
TVHS  
Credit: 1.0 Math  
Recommended: Qualifying Test Scores  
Dual college credit may be available – see your school counselor for more information

*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
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.

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)

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.

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.
GEOMETRY IN CONSTRUCTION
- Geometry
- Construction

LHS, TVHS
Credit: 1.0 Math – Geometry
Credit: 1.0 Applied Arts / CTE - Construction
Fee: $30 per semester
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

IB DP MATHEMATICS HL/SL
- IB DP Mathematics SL 11 (Calculus AB)
- IB DP Mathematics HL 11 (Calculus BC)
- IB DP Mathematics SL 12
- IB DP Mathematics HL 12

LHS
Credit: 1.0 Math / Career Pathway Elective for each course

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 DP MATH APPLICATIONS AND INTERPRETATIONS 12 HL

LHS
Credit: 1.0 Math / Career Pathway Elective for each course
Credit: 1.0 Applied Arts / CTE - Construction

The IB DP Mathematics: applications and interpretation course recognizes the increasing role that mathematics and technology play in a diverse range of fields in a data-rich world. As such, it emphasizes the meaning of mathematics in context by focusing on topics that are often used as applications or in mathematical modelling. To give this understanding a firm base, this course includes topics that are traditionally part of a pre-university mathematics course such as calculus and statistics. Students are encouraged to solve real-world problems, construct and communicate this mathematically and interpret the conclusions or generalizations. All external assessments involve the use of technology (graphing calculators). The internally assessed exploration allows students to develop independence in mathematical learning.

In IB DP Math Applications and Interpretations 12 HL students will: Students need to complete DP Math 11 (Calculus AB) before enrolling in DP Math Applications and Interpretations HL. The second year of the course will focus primarily on statistics, while also giving students the opportunity to complete their Math Exploration internal assessment.
The IB DP Mathematics: analysis and approaches course recognizes the need for analytical expertise in a world where innovation is increasingly dependent on a deep understanding of mathematics. This course has a strong emphasis to develop insight into mathematical form and structure, and should be intellectually equipped to appreciate the links between concepts in different topic areas. Students are also encouraged to develop the skills needed to continue their mathematical growth in other learning environments. The internally assessed exploration allows students to develop independence in mathematical learning.

IB DP Math Analysis and Approaches 12 HL Students enrolling in this course must have previously taken IB DP Math 11 (Calculus AB) as well as Statistics either during their 10th, 11th or concurrently during their 12th grade year. The first semester will focus on Calculus BC topics, while the second semester will focus on synthesizing the Calculus, Statistics and other math concepts as well as focusing on the Math Exploration internal assessment.

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.

- be able to demonstrate skills in the aforementioned 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

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

In Problem Solving Strategies, students will:
-
Mathematics

- 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
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

**STATISTICS**  2104, 2105
BHS, MVHS, TVHS
Credit:  1.0 Math
Recommended:  Algebra 2

Statistics is a year-long introductory course designed for students who have successfully completed Algebra II. The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will explore and analyze data using graphical and numerical techniques. Students will also use probability and statistical inferences to develop an appropriate model for data collected. Students will be using text materials, group exercises, multi-media presentations, internet resources, journal & newspaper articles and projects to explore and master the content of this course. This course is for students who want to learn the concepts taught in a statistics course, but may not want to take an AP course.

**TRIGONOMETRY/FUNCTIONS**  2060, 2061
BHS, 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

Classes 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, MVHS, TVHS
Credit: 1.0 Fine Arts
Recommended: Audition and/or instructor permission
Fee: $15 per semester
Fee: $40 school instrument rental fee, if renting an instrument from the school music department

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
Fee: $40 school instrument rental fee, if renting an instrument from the school music department

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**

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

<table>
<thead>
<tr>
<th><strong>CONCERT/MARCHING BAND</strong></th>
<th>6052, 6053</th>
</tr>
</thead>
<tbody>
<tr>
<td>BHS, MVHS</td>
<td></td>
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<tr>
<td>Credit: 1.0 Fine Arts</td>
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<tr>
<td>Fee: $15 per semester plus $10 uniform cleaning and $5 travel fee per trip</td>
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<tr>
<td>Fee: $40 school instrument rental fee, if renting an instrument from the school music department</td>
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<tr>
<td>Recommended: Eighth Grade Band or Instructor Approval</td>
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</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><strong>CONCERT/MARCHING BAND 2</strong></th>
<th>6058, 6059</th>
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</thead>
<tbody>
<tr>
<td>BHS</td>
<td></td>
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<tr>
<td>Credit: .50 Fine Arts Semester 1</td>
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<tr>
<td>Fee: $15 per semester plus $10 uniform cleaning and $5 travel fee per trip</td>
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<tr>
<td>Fee: $40 school instrument rental fee, if renting an instrument from the school music department</td>
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<tr>
<td>Recommended: Concert/Marching Band</td>
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<table>
<thead>
<tr>
<th><strong>CONCERT/MARCHING BAND 3</strong></th>
<th>6060, 6061</th>
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</thead>
<tbody>
<tr>
<td>BHS</td>
<td></td>
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<tr>
<td>Credit: 1.0 Fine Arts</td>
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<tr>
<td>Fee: $15 per semester plus $10 uniform cleaning and $5 travel fee per trip</td>
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</tr>
<tr>
<td>Fee: $40 school instrument rental fee, if renting an instrument from the school music department</td>
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<tr>
<td>Recommended: Concert/Marching Band 2</td>
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</table>

<table>
<thead>
<tr>
<th><strong>CONCERT/MARCHING BAND 4</strong></th>
<th>6062, 6063</th>
</tr>
</thead>
<tbody>
<tr>
<td>BHS</td>
<td></td>
</tr>
<tr>
<td>Credit: 1.0 Fine Arts</td>
<td></td>
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<tr>
<td>Fee: $15 per semester plus $10 uniform cleaning and $5 travel fee per trip</td>
<td></td>
</tr>
<tr>
<td>Fee: $40 school instrument rental fee, if renting an instrument from the school music department</td>
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</tr>
<tr>
<td>Recommended: Concert/Marching Band 3</td>
<td></td>
</tr>
</tbody>
</table>
Music

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

**INTRODUCTION TO GUITAR**
FHS, MVHS, TVHS
Credit: .50 Fine Arts
Fee: $40 school instrument rental fee, if renting an instrument from the school music department
Recommended: Instructor approval

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

**JAZZ ENSEMBLE 3 Beginning**
TVHS
Credit: 1.0 Fine Arts
Fee: $15 per semester plus $5 travel fee
Fee: $40 school instrument rental fee, if renting an instrument from the school music department
Recommended: Audition and/or instructor approval

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**
LHS, MVHS, TVHS
Credit: 1.0 Fine Arts
Fee: $15 per semester plus $5 travel fee per trip
Fee: $40 school instrument rental fee, if renting an instrument from the school music department
Recommended: Instructor approval and membership in Concert Band, Symphonic Band, or Wind Ensemble

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**
BHS, LHS, MVHS, TVHS
Credit: 1.0 Fine Arts
Fee: $15 per semester plus $5 travel fee per trip
Fee: $40 school instrument rental fee, if renting an instrument from the school music department
Recommended: Instructor approval, audition, and membership in Concert Band, Symphonic Band, or Wind Ensemble

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

Classes 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
Fee: $11 per semester plus $10 uniform cleaning and $5 travel fee per trip
Fee: $40 school instrument rental fee, if renting an instrument from the school music department
Recommended: Contact your Band Director for approval and guidance around registration

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
Fee: $11 per semester plus $10 uniform cleaning and $5 travel fee per trip
Fee: $40 school instrument rental fee, if renting an instrument from the school music department
Recommended: Contact your Band Director for approval and guidance around registration

*MARCHING BAND 3* 6049
TVHS, LHS
Credit: .50 Fine Arts
Fee: $11 per semester plus $10 uniform cleaning and $5 travel fee per trip
Fee: $40 school instrument rental fee, if renting an instrument from the school music department
Recommended: Contact your Band Director for approval and guidance around registration

*MARCHING BAND 4* 6050
TVHS, LHS
Credit: .50 Career Pathway Elective
Fee: $11 per semester plus $10 uniform cleaning and $5 travel fee per trip
Fee: $40 school instrument rental fee, if renting an instrument from the school music department
Recommended: Contact your Band Director for approval and guidance around registration

TENOR/BASS CHOIR 6136, 6137
BHS, LHS, MVHS, TVHS
Credit: 1.0 Fine Arts
Fee: $15 per semester

In Tenor/Bass Choir students will:
• perform literature written expressly for tenor 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
Music

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

MIXED CHOIR
BHS, FHS, LHS, MVHS, TVHS
Credit: 1.0 Fine Arts
Fee: $15 per semester
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

PRE-AP MUSIC
TVHS
Credit: 1.0 Fine Arts

In Pre AP Music students will:

*MUSIC ENSEMBLE
LHS
Credit: 1.0 Fine Arts
Fee: $15 per semester
Fee: $40 school instrument rental fee, if renting an instrument from the school music department
Recommended: Membership in band, choir, orchestra, or instructor approval

FHS, MVHS, TVHS
Credit: .50 Fine Arts
Fee: $15
Fee: $40 school instrument rental fee, if renting an instrument from the school music department
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 EXPLORATION
FHS
Credit: .25 Fine Arts per quarter
Fee: $15 per semester or $7.5 per quarter

In Music Exploration students will:
• demonstrate basic knowledge of music theory
• develop basic vocal techniques and solfege 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

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

**MUSIC THEORY**

<table>
<thead>
<tr>
<th>Course</th>
<th>School(s)</th>
<th>Credit</th>
<th>Fee</th>
<th>Recommended</th>
<th>Dual College Credit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>6009</td>
<td>BHS, FHS, LHS, MVHS, TVHS</td>
<td>.50 Fine Arts</td>
<td>$115</td>
<td>Basic music-reading ready recommended and approval of the instructor</td>
<td>May be available - see your school counselor for more information</td>
<td></td>
</tr>
</tbody>
</table>

*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**

<table>
<thead>
<tr>
<th>Course</th>
<th>School(s)</th>
<th>Credit</th>
<th>Fee</th>
<th>Recommended</th>
<th>Dual College Credit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>XXXX</td>
<td>FHS</td>
<td>.50 Fine Arts</td>
<td>$115</td>
<td>Basic music-reading ready recommended and approval of the instructor</td>
<td>May be available - see your school counselor for more information</td>
<td></td>
</tr>
</tbody>
</table>

*In Music Theory 2, 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

**AP MUSIC THEORY**

<table>
<thead>
<tr>
<th>Course</th>
<th>School(s)</th>
<th>Credit</th>
<th>Fee</th>
<th>Recommended</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>6010, 6011</td>
<td>LHS, MVHS, TVHS</td>
<td>1.0 Fine Arts</td>
<td>$115</td>
<td>A strong background of music theory recommended and approval of the instructor</td>
<td></td>
</tr>
</tbody>
</table>

*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**

<table>
<thead>
<tr>
<th>Course</th>
<th>School(s)</th>
<th>Credit</th>
<th>Fee</th>
<th>Recommended</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>6205</td>
<td>MVHS</td>
<td>.50 Fine Arts</td>
<td>$115</td>
<td>taken Acting Techniques and have previous choral experience or instructor approval</td>
<td></td>
</tr>
</tbody>
</table>

*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
### Music

**Classes 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</th>
<th>Description</th>
</tr>
</thead>
</table>
| **MUSICAL THEATRE TECHNIQUES**  | 6029 | MVHS, TVHS  
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**                   | 6024, 6025 | BHS, LHS, MVHS, TVHS  
Credit: 1.0 Fine Arts  
Fee: $15 per semester  
Fee: $40 school instrument rental fee, if renting an instrument from the school music department  
Recommended: At least two years’ previous orchestral experience and/or instructor approval  
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**       | 6046 | 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 |
| **PERCUSSION/COLORGUARD**       | 6047 | LHS  
Credit: 0.50 Fine Arts  
Fee: $11 per semester  
Fee: $40 school instrument rental fee, if renting an instrument from the school music  
Recommended: Contact your Band Director for approval and guidance around registration  
In Percussion/Colorguard, students will learn:  
• music/movement memorization skills  
• reading and applying drill charts  
• showmanship and esprit de corps  
• Vocabulary specific to the colorguard and percussion sections of the marching band.  
• Participate in all scheduled performances, including a summer band camp |
| **SHOW/JAZZ CHOIR**             | 6020, 6021 | BHS, LHS, MVHS, TVHS  
Credit: 1.0 Fine Arts  
Fee: $15 per semester  
• |
Music

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

Recommended: Instructor approval, audition AND membership in Chamber, Mixed, Tenor/Bass Choir, Treble Choir, Treble Choir Intermediate or Treble Choir Advanced (BHS – audition only)

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

SYMPHONIC BAND
LHS, TVHS
Credit: 1.0 Fine Arts
Fee: $15 per semester plus $10 uniform cleaning and $5 travel fee per trip
Fee: $40 school instrument rental fee, if renting an instrument from the school music department
Recommended: Audition and/or instructor approval

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
BHS, MVHS
Credit: 1.0 Fine Arts
Fee: $15 per semester plus $10 uniform cleaning and $5 travel fee per trip
Fee: $40 school instrument rental fee, if renting an instrument from the school music department
Recommended: Audition and/or instructor approval

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
BHS, MVHS
Credit: .50 Fine Arts Semester 1
Credit: .50 Fitness Semester 2
Fee: $15 per semester plus $10 uniform cleaning and $5 travel fee per trip
Fee: $40 school instrument rental fee, if renting an instrument from the school music department
Recommended: Audition and/or instructor approval

SYMPHONIC / MARCHING BAND 3
BHS, MVHS
Credit: 1.0 Fine Arts
Fee: $15 per semester plus $10 uniform cleaning and $5 travel fee per trip
Fee: $40 school instrument rental fee, if renting an instrument from the school music department
Recommended: Audition and/or instructor approval
# Music

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

## SYMPHONIC / MARCHING BAND 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6068, 6069</td>
<td>1.0</td>
<td>Fine Arts</td>
</tr>
</tbody>
</table>

- BHS, MVHS
- Fee: $15 per semester plus $10 uniform cleaning and $5 travel fee per trip
- Fee: $40 school instrument rental fee, if renting an instrument from the school music department
- Recommended: Audition and/or instructor approval

## PRE-AP THEATRE

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6674, 6675</td>
<td>1.0</td>
<td>Fine Arts</td>
</tr>
</tbody>
</table>

- TVHS
- In Pre AP Theatre students will:

## TREBLE CHOIR INTERMEDIATE

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6130, 6131</td>
<td>1.0</td>
<td>Elective</td>
</tr>
</tbody>
</table>

- LHS, MVHS, TVHS
- Fee: $15 per semester
- Recommended: Audition and/or instructor approval

Students will:

- Perform literature written expressly for treble voices
- Continue to foster their vocal abilities in the areas of technique, and perform more challenging literature than the previous course description
- Perform literature from all style periods, including working with multiple foreign languages
- Demonstrate an increased ability to perform with proper diction, tone, breathing, posture, rhythm, vowel matching, and intonation
- Attend all choral performances
- Determine concert attire with the ensemble and director

## WIND ENSEMBLE

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6036, 6037</td>
<td>1.0</td>
<td>Fine Arts</td>
</tr>
</tbody>
</table>

- LHS, TVHS
- Fee: $15 per semester plus $10 uniform cleaning and $5 travel fee per trip
- Fee: $40 school instrument rental fee, if renting an instrument from the school music department
- Recommended: Audition and/or instructor approval

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6056, 6057</td>
<td>1.0</td>
<td>Fine Arts</td>
</tr>
</tbody>
</table>

- BHS, MVHS
- Fee: $15 per semester plus $10 uniform cleaning and $5 travel fee per trip
- Fee: $40 school instrument rental fee, if renting an instrument from the school music department
- Recommended: Audition and/or instructor approval

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
Music

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

- 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>Course Code</th>
<th>Schools</th>
</tr>
</thead>
<tbody>
<tr>
<td>6070, 6071</td>
<td>BHS, MVHS</td>
</tr>
</tbody>
</table>

*Credit*: .50 Fine Arts Semester 1

*Credit*: .50 Fitness Semester 2

*Fee*: $15 per semester plus $10 uniform cleaning and $5 travel fee per trip

*Fee*: $40 school instrument rental fee, if renting an instrument from the school music department

Recommended: Audition and/or instructor approval

**WIND ENSEMBLE/MARCHING BAND 3**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Schools</th>
</tr>
</thead>
<tbody>
<tr>
<td>6072, 6073</td>
<td>BHS, MVHS</td>
</tr>
</tbody>
</table>

*Credit*: 1.0 Fine Arts

*Fee*: $15 per semester plus $10 uniform cleaning and $5 travel fee per trip

*Fee*: $40 school instrument rental fee, if renting an instrument from the school music department

Recommended: Audition and/or instructor approval

**WIND ENSEMBLE/MARCHING BAND 4**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Schools</th>
</tr>
</thead>
<tbody>
<tr>
<td>6074, 6075</td>
<td>BHS, MVHS</td>
</tr>
</tbody>
</table>

*Credit*: 1.0 Fine Arts

*Fee*: $15 per semester plus $10 uniform cleaning and $5 travel fee per trip

*Fee*: $40 school instrument rental fee, if renting an instrument from the school music department

Recommended: Audition and/or instructor approval

**TREBLE CHOIR**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Schools</th>
</tr>
</thead>
<tbody>
<tr>
<td>6132, 6133</td>
<td>BHS, LHS, TVHS</td>
</tr>
</tbody>
</table>

**TREBLE CHOIR**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Schools</th>
</tr>
</thead>
<tbody>
<tr>
<td>6132, 6133</td>
<td>MVHS</td>
</tr>
</tbody>
</table>

*Credit*: 1.0 Fine Arts

*Fee*: $15 per semester

Recommended: Audition or instructor approval only at TVHS

In treble choir, students will:

- perform literature written expressly for treble voices
- perform literature from some style periods and the learning of at least one 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

**TREBLE CHOIR ADVANCED**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Schools</th>
</tr>
</thead>
<tbody>
<tr>
<td>6134, 6135</td>
<td>LHS, TVHS</td>
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</table>

**TREBLE CHOIR ADVANCED**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Schools</th>
</tr>
</thead>
<tbody>
<tr>
<td>6134, 6135</td>
<td>MVHS</td>
</tr>
</tbody>
</table>

*Credit*: 1.0 Fine Arts

*Fee*: $15 per semester

Recommended: Audition and/or instructor approval

In Treble 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 learning challenging literature in at least three or four parts 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
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
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
BHS, LHS, MVHS, TVHS
Credit: .50 Fitness - Semester 1
Credit: .50 Social Studies (meets 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
BHS, LHS, MVHS, TVHS
Credit: .50 Fitness / Career Pathway Elective
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
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

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 3071
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 3020, 3021
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

BIOLOGY PRE AP 3024, 3025
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
- 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)

BIOLOGY IB MYP/HONORS 3300, 3301
LHS
Credit: 1.0 Science

In Biology IB MYP / Honors, 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
### AP BIOLOGY
BHS, LHS, MVHS, TVHS  
Credit: 1.0 Science  
Fee: Student pays for textbook and AP Exam  
Recommended: Biology and Chemistry  
Pathway: Agricultural Science - Agriculture, Food and Natural Resources  
Dual college credit may be available – see your school counselor for more information

**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
TVHS  
Credit: .50 Science  
Fee: Student pays for textbook  
Recommended: Biology and Chemistry

**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
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 with 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
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

### CHEMISTRY HONORS
LHS  
Credit: 1.0 Science  
Recommended: Geophysical Science Honors 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
<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Schools</th>
<th>Credit</th>
<th>Fee</th>
<th>Recommended Courses</th>
<th>In course students will:</th>
</tr>
</thead>
</table>
| **AP CHEMISTRY**               | 3044, 3045 | BHS, LHS, MVHS, TVHS | 1.0 Science | Student pays for textbook and AP Exam | Pre AP Chemistry and Algebra II  
(LHS only: Recommended: Chemistry Honors and Algebra II) | - 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**      | 3048, 3049 | BHS, FHS, LHS, MVHS, TVHS | 1.0 Science |  | Biology  | - 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**   | 3050, 3051 | BHS, TVHS | 1.0 Science | Student pays for textbook and AP Exam | Biology and/or Chemistry  | - 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** | 3080, 3081 | BHS | 1.0 Science | $30 per semester | Biology  | - 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 |

*Pathway: Project Lead the Way / Engineering – STEM, Arts, Design and Information Technology*  
*Dual college credit may be available – see your school counselor for more information*
### Science

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDIT</th>
<th>DESCRIPTION</th>
</tr>
</thead>
</table>
| **FORENSIC SCIENCE**                  | 0.50   | TVHS Credit: 0.50 Science  
FHS Credit: 0.25 Science |
| **GENETICS**                          | 0.50   | BHS, LHS, MVHS, TVHS Credit: 0.50 Science  
Recommended: Biology |
| **GEOPHYSICAL LAB**                   | 1.0    | 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**            | 1.0    | 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**            | 1.0    | 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. |
### GEOPHYSICAL LAB IB MYP/HONORS

**LHS**  
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

### HUMAN ANATOMY AND PHYSIOLOGY 1

**BHS, FHS, LHS, MVHS, TVHS**  
Credit: .50 Science  
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 cat dissection  
- explore career relevance for those interested in health-related careers

### HUMAN ANATOMY AND PHYSIOLOGY 2

**BHS, LHS, MVHS, TVHS**  
Credit: .50 Science  
Recommended: Human Anatomy and Physiology 1

*In Human Anatomy and Physiology 2, students will:*  
- study those systems not covered in Human Anatomy and Physiology 1  
- be required to complete a cat dissection  
- study structures and functions of human anatomy through a hands-on lab-oriented approach

### IB DP BIOLOGY HL

**LHS**  
Credit: 1.0 Science for each 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
- IB DP CHEMISTRY 12 HL

LHS
Credit: 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, 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 DP ENVIRONMENTAL SYSTEMS AND SOCIETIES SL

LHS
Credit: 1.0 Science per year

Environmental Systems and Societies is a one year standard level course firmly grounded in both a scientific exploration of environmental systems in their structure and function, and in the exploration of cultural, economic, ethical, political and social interactions of societies with the environment.

**In IB DP Environmental Systems and Societies, students will:**

- acquire and apply the knowledge and methodologies of environmental systems and issues at a variety of scales
- appreciate the dynamic interconnectedness between environmental systems and societies value the combination of personal, local and global perspectives and engage in making informed decisions and taking responsible actions on a variety of environmental issues
- be critically aware that resources are finite, that these could be inequitably distributed and exploited, and that the management of these inequities is the key to sustainability
- develop critical awareness that environmental problems are caused and solved by decisions made by individuals and societies that are based on different environmental value systems

### NIGHT ASTRONOMY - MAGNET

Grades 11, 12
Credit: .50 Science
Recommended: Geophysical Lab Science

Offered to all students - taught at the Little Thompson Observatory near BHS

**Meets one evening a week from 6:00 pm - 10:00 pm**

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
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
- Trigonometry/Functions Integrated  2076, 2077
- Physics Integrated  3076, 3077

TVHS
Credit: 1.0 Math – Trigonometry/Functions Integrated
Credit: 1.0 Science – Physics Integrated
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  3056, 3057
BHS, MVHS, TVHS
Credit: 1.0 Science
Recommended: Trigonometry/Functions
Fee: Student pays for textbook and AP Exam

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  3058, 3059
BHS, TVHS
Credit: 1.0 Science
Fee: Student pays for textbook and AP Exam

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  3062, 3063
BHS
Credit: 1.0 Science
Fee: Student pays for textbook and AP Exam - *Note: Uses same textbook as AP Physics C: Mechanics*
Recommended: AP Physics C: Mechanics, Calculus concurrent enrollment

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
LHS
Credit: 1.0 Science
Fee: Student pays for textbook and AP Exam
Recommended: AP Calculus, can be taken concurrently

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

BHS, FHS, LHS, MVHS, TVHS  
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](http://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. The expectation is that all students can perform well at rigorous academic levels. Secondly, this course is meant to prepare every student for higher intellectual engagement by starting the development of skills and acquisition of knowledge as early as possible

### CIVICS/GEOGRAPHY IB MYP/HONORS

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

### AP COMPARATIVE GOVERNMENT AND POLITICS

TVHS  
Credit: .50 Social Studies  
Fee: Student pays for textbook and AP Exam

*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
**Social Studies**

**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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Code(s)</th>
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<tbody>
<tr>
<td>English 11 Integrated</td>
<td>1044, 1045</td>
</tr>
<tr>
<td>Modern America Integrated</td>
<td>4044, 4045</td>
</tr>
</tbody>
</table>

TVHS  
Credit: 1.0 Language Arts – English 11 Integrated  
Credit: 1.0 Social Studies – Modern America Integrated

*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  
Fee: Student pays for textbook and AP Exam

*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

**IB DP HISTORY OF THE AMERICAS HL**

<table>
<thead>
<tr>
<th>Course</th>
<th>Code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IB History of Americas 11</td>
<td>4320, 4321</td>
</tr>
<tr>
<td>IB History of Americas 12 / ECONOMICS</td>
<td>4334, 4335</td>
</tr>
</tbody>
</table>

LHS  
Credit: 1.0 Social Studies for each course

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 DP PSYCHOLOGY 1**
LHS (Grades 11, 12)
Credit: 1.0 Social Studies

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 PSYCHOLOGY 2**
LHS
Credit: 1.0 Social Studies

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.

**JROTC - LEVEL 1**
BHS, LHS, MVHS, TVHS
Credit: .50 Fitness - Semester (meets graduation requirement) / Career Pathway Elective 1
Credit: .50 Social Studies (Civics Requirement) / Career Pathway Elective - Semester 2
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, Introduction to branches of the Armed Forces. Weapons safety and basic marksmanship skills, goal setting, drug abuse prevention, bullying prevention, basic nutrition, and citizenship through history, drill and ceremonies, civic engagement and US Civics topics.
**Social Studies**

**AP MACROECONOMICS**
LHS, MVHS (Grade 12)
Credit: .50 Social Studies
Fee: Student pays for textbook and AP Exam

*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

**AP MICROECONOMICS**
TVHS
LHS, TVHS (Grade 12)
Credit: .50 Social Studies / Career Pathway Elective
Fee: Student pays for textbook and AP Exam

*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
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
Fee: Student pays for textbook and AP Exam
Dual college credit may be available – see your school counselor for more information

*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**

MVHS
Credit: 1.0 Social Studies / Fine Arts

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**

BHS, FHS, LHS, MVHS, TVHS
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 GEOGRAPHY HONORS**

LHS
Credit: .50 Social Studies

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.
- Examine how the issues of peace and conflict influence the geopolitics of the world

**WORLD HISTORY**

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**

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
Social Studies

- develop note taking, organizational, analytical, and critical thinking skills

**WORLD HISTORY HONORS**
LHS
Credit: 1.0 Social Studies

In the first semester of this course begins as an overview of Western Civilization with an emphasis on the growth and challenges of the power structure within Europe. It then transitions to an overview of the Eastern civilization and its increased interactions with the western world by the end of the 19th century. The second semester challenges students to recognize the content and methodologies concerning the events and ideologies shaping the 20th century and how they impact the present.

*In World History Honors, students will:*
- Develop their reading, writing and speaking skills to present concise, logical and relevant arguments.
- Distinguish between primary and secondary source material and be able to interpret the source in order to use it critically as historical evidence.
- Analyze the changes and continuity from a given historical concept/context.

**WORLD HISTORY IB MYP/HONORS**
Credit: 1.0 Social Studies

In the first semester of this course begins as an overview of Western Civilization with an emphasis on the growth and challenges of the power structure within Europe. It then transitions to an overview of the Eastern civilization and its increased interactions with the western world by the end of the 19th century. The second semester challenges students to recognize the content and methodologies concerning the events and ideologies shaping the 20th century and how they impact the present.

*In World History IB MYP/Honors, students will:*
- Develop their reading, writing and speaking skills to present concise, logical and relevant arguments.
- Distinguish between primary and secondary source material and be able to interpret the source in order to use it critically as historical evidence.
- Analyze the changes and continuity from a given historical concept/context.

**PRE AP WORLD HISTORY AND GEOGRAPHY**
TVHS
Credit: 1.0 Social Studies

*In Pre AP World History students will:*  
- 

**AP WORLD HISTORY: MODERN**
MVHS, TVHS
Credit: 1.0 Social Studies / Career Pathway Elective
Fee: Student pays for textbook

*In AP World History: Modern 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
Demonstrating Language Proficiency

The Thompson School District High School Seal of Biliteracy is a credential for graduating high school seniors who can communicate in the interpersonal, interpretive and presentational modes at the intermediate-mid proficiency range or higher in another language as well as at a high level in English. In order to earn the Seal, students who are seniors must demonstrate their proficiency 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 TSD Seal.

2. **Show Proficiency in English**
   Students must complete one of the following in their senior year:

<table>
<thead>
<tr>
<th>ACT English Section</th>
<th>18 or higher</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP English Language &amp; Composition</td>
<td>3 or higher</td>
</tr>
<tr>
<td>AP English Literature &amp; Composition</td>
<td>3 or higher</td>
</tr>
<tr>
<td>IB English Language &amp; Literature A</td>
<td>4 or higher</td>
</tr>
<tr>
<td>SAT (English section)</td>
<td>470 or higher</td>
</tr>
<tr>
<td>English 121-Community College Course or Concurrent Enrollment</td>
<td>C or higher</td>
</tr>
<tr>
<td>Access test scores (taken in high school only)</td>
<td>4.0 Overall and 4.0 in Literacy</td>
</tr>
<tr>
<td>AAPPL Language Assessment in English (Heritage or Native Language students of languages other than English)</td>
<td>I4 or higher (Intermediate-mid or higher) on 3 of the 4 sections</td>
</tr>
</tbody>
</table>

3. **Show Proficiency 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 or higher |
   | IB Spanish B, IB French B, IB German B | 4 or higher |
   | AAPPL Language Assessments are available in Arabic, Chinese (Mandarin), English, French, German, Hindi, Italian, Japanese, Korean, Portuguese, Russian, Spanish, and Thai. | I4 or higher (Intermediate-mid or higher) on 3 of the 4 sections |

Application, information and more are at:

https://www.thompsonschools.org/tsdsealofbiliteracy
Demonstrating Language Mastery
The Thompson School District High School Seal of Biliteracy is a credential for graduating high school seniors who can communicate in the interpersonal, interpretive and presentational modes at the intermediate-mid proficiency range or higher in another language as well as at a high level in English. In order to earn the Seal, students who are seniors must demonstrate their proficiency 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 Colorado Seal.

2. Show Literacy in English
Students must complete one of the following:

<table>
<thead>
<tr>
<th>ACT (English section)</th>
<th>18 or higher</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP English Language &amp; Composition</td>
<td>3 or higher</td>
</tr>
<tr>
<td>AP English Literature &amp; Composition</td>
<td>3 or higher</td>
</tr>
<tr>
<td>IB English Language &amp; Literature A</td>
<td>4 or higher</td>
</tr>
<tr>
<td>SAT (English section)</td>
<td>470 or higher</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:

<table>
<thead>
<tr>
<th>AP Spanish Language, AP French Language, AP German Language</th>
<th>3 or higher</th>
</tr>
</thead>
<tbody>
<tr>
<td>IB Spanish B, IB French B, IB German B</td>
<td>4 or higher</td>
</tr>
<tr>
<td>AAPPL Language Assessments are available in Arabic, Chinese (Mandarin), English, French, German, Hindi, Italian, Japanese, Korean, Portuguese, Russian, Spanish, and Thai.</td>
<td>I4 or higher (Intermediate-mid or higher) on all four sections</td>
</tr>
</tbody>
</table>

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.

**SPANISH FOR HERITAGE AND NATIVE LEARNERS I**

LHS  
Credit: 1.0 World Language

**LEVEL 1**

<table>
<thead>
<tr>
<th>Language</th>
<th>Schools</th>
<th>Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>French</td>
<td>BHS, LHS, MVHS, TVHS</td>
<td>7000, 7001</td>
</tr>
<tr>
<td>German</td>
<td>LHS, TVHS</td>
<td>7014, 7015</td>
</tr>
<tr>
<td>Spanish</td>
<td>BHS, LHS, MVHS, TVHS</td>
<td>7028, 7029</td>
</tr>
<tr>
<td>American Sign Language</td>
<td>LHS</td>
<td>7100, 7101</td>
</tr>
</tbody>
</table>

Credit: 1.0 World Language

**LEVEL 1 – PRE AP**

<table>
<thead>
<tr>
<th>Language</th>
<th>Schools</th>
<th>Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>French</td>
<td>TVHS</td>
<td>7002, 7003</td>
</tr>
<tr>
<td>Spanish</td>
<td>BHS, MVHS, TVHS</td>
<td>7030, 7031</td>
</tr>
</tbody>
</table>

Credit: 1.0 World Language

**LEVEL 1 - HONORS**

<table>
<thead>
<tr>
<th>Language</th>
<th>Schools</th>
<th>Levels</th>
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</thead>
<tbody>
<tr>
<td>French</td>
<td>BHS</td>
<td>7062, 7063</td>
</tr>
<tr>
<td>German</td>
<td>BHS</td>
<td>7072, 7073</td>
</tr>
<tr>
<td>Spanish</td>
<td>BHS</td>
<td>7082, 7083</td>
</tr>
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</table>

Credit: 1.0 World Language

**LEVEL 1 - IB MYP/HONORS**

<table>
<thead>
<tr>
<th>Language</th>
<th>Schools</th>
<th>Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>French</td>
<td>LHS</td>
<td>7300, 7301</td>
</tr>
<tr>
<td>German</td>
<td>LHS</td>
<td>7302, 7303</td>
</tr>
<tr>
<td>Spanish</td>
<td>LHS</td>
<td>7304, 7305</td>
</tr>
</tbody>
</table>

Credit: 1.0 World Language

In Level 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.

• Using the language to investigate, explain and reflect on the concept of culture through comparisons of the cultures studied and on their own.
World Languages

LEVEL 2
French - BHS, LHS, MVHS, TVHS  7004, 7005
German - LHS, TVHS  7018, 7019
Spanish - BHS, LHS, MVHS, TVHS  7032, 7033
American Sign Language – LHS  7101, 7102
Credit: 1.0 World Language
Recommendation: Successful completion of Level 1

LEVEL 2 – PRE AP
French - MVHS, TVHS  7006, 7007
German - TVHS  7020, 7021
Spanish - BHS, MVHS, TVHS  7034, 7035
Credit: 1.0 World Language
Recommendation: Successful completion of Level 1

LEVEL 2 - HONORS
French –  7064, 7065
German –  7074, 7075
Spanish –  7084, 7085
Credit: 1.0 World Language
Recommendation: Successful completion of Level 1

LEVEL 2 - IB MYP/HONORS
French – LHS  7306, 7307
German – LHS  7370, 7371
Spanish – LHS  7384, 7385
Credit: 1.0 World Language
Recommendation: Successful completion of Level 1

In 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.
• Using the language to investigate, explain and reflect on the concept of culture through comparisons of the cultures studied and on their own.
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  Recommendation: Successful completion of Level 2

LEVEL 3 – PRE AP
French - TVHS  7048, 7049
German - TVHS  7052, 7053
Spanish - BHS, MVHS, TVHS  7042, 7043
Credit: 1.0 World Language  Recommendation: Successful completion of Level 2

LEVEL 3 - HONORS
French –  7066, 7067
German –  7076, 7077
Spanish –  7086, 7087
Credit: 1.0 World Language  Recommendation: Successful completion of Level 2

LEVEL 3 - IB MYP/HONORS
French – LHS  7366, 7367
Spanish – LHS  7386, 7387
Credit: 1.0 World Language  Recommendation: Successful completion of Level 2

IB DP LANGUAGE B (SL)
French 3 - LHS  7320, 7321
German 3 - LHS  7322, 7323
Spanish 3 - LHS  7324, 7325
Credit: 1.0 World Language  Recommendation: Successful completion of Level 2

In 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 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.

**LEVEL 4**

<table>
<thead>
<tr>
<th>Language</th>
<th>Schools</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>French</strong></td>
<td>BHS, LHS, MVHS</td>
<td>7010, 7011</td>
</tr>
<tr>
<td><strong>German</strong></td>
<td>LHS, TVHS</td>
<td>7024, 7025</td>
</tr>
<tr>
<td><strong>Spanish</strong></td>
<td>BHS, LHS, MVHS, TVHS</td>
<td>7038, 7039</td>
</tr>
</tbody>
</table>

Credit: 1.0 World Language

Recommendation: Successful completion of Level 3

Dual college credit may be available – see your school counselor for more information

**LEVEL 4 – PRE AP**

<table>
<thead>
<tr>
<th>Language</th>
<th>Schools</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Spanish</strong></td>
<td>BHS, MVHS, TVHS</td>
<td>7044, 7045</td>
</tr>
</tbody>
</table>

Credit: 1.0 World Language

Recommendation: Successful completion of Level 3

Dual college credit may be available – see your school counselor for more information

**LEVEL 4 - HONORS**

<table>
<thead>
<tr>
<th>Language</th>
<th>Schools</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>French</strong></td>
<td>LHS</td>
<td>7068, 7069</td>
</tr>
<tr>
<td><strong>Spanish</strong></td>
<td>LHS</td>
<td>7088, 7089</td>
</tr>
</tbody>
</table>

Credit: 1.0 World Language

Recommendation: Successful completion of Level 3

Dual college credit may be available – see your school counselor for more information

**LEVEL 4 - IB MYP/HONORS**

<table>
<thead>
<tr>
<th>Language</th>
<th>Schools</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>French</strong></td>
<td>LHS</td>
<td>7368, 7369</td>
</tr>
<tr>
<td><strong>Spanish</strong></td>
<td>LHS</td>
<td>7388, 7389</td>
</tr>
</tbody>
</table>

Credit: 1.0 World Language

Recommendation: Successful completion of Level 3

Dual college credit may be available – see your school counselor for more information

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.
World Languages

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.
- Using the language to investigate, explain and reflect on the concept of culture through comparisons of the cultures studied and on their own.

AP GERMAN LEVEL 4 7056, 7057
LHS
Credit 1.0 World Language
Recommendation: Successful completion of Level 3
Dual college credit may be available – see your school counselor for more information

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.
- 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.
- Using the language to investigate, explain and reflect on the concept of culture through comparisons of the cultures studied and on their own.
LEVEL 5

**French** – LHS
Credit: 1.0 World Language
Recommendation: Successful completion of Level 4
Dual college credit may be available – see your school counselor for more information

**Spanish** – LHS, MVHS, TVHS
Credit: 1.0 World Language
Recommendation: Successful completion of Level 4
Dual college credit may be available – see your school counselor for more information

LEVEL 5 - HONORS

**French** –
Credit: 1.0 World Language
Recommendation: Successful completion of Level 4
Dual college credit may be available – see your school counselor for more information

LEVEL 5 – IB MYP/HONORS

**French** – LHS
Credit: 1.0 World Language
Recommendation: Successful completion of Level 4
Dual college credit may be available – see your school counselor for more information

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.
- 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.
- Using the language to investigate, explain and reflect on the concept of culture through comparisons of the cultures studied and on their own.
World Languages

AP LEVEL 5
Spanish – LHS, MVHS, TVHS
French – LHS
7046, 7047
7054, 7055

Credit: 1.0 World Language
Recommendation: Successful completion of Level 4
Dual college credit may be available – see your school counselor for more information

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.
● 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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● Using the language to investigate, explain, and reflect on the nature of language through comparisons of the language studied and their own.

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 concept of culture through comparisons of the cultures studied and on their own.
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

AVID
Decades of College Dreams
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>AP Seminar (Year 1)</th>
<th>AP Research (Year 2)</th>
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</thead>
<tbody>
<tr>
<td>Team Project &amp; Presentation</td>
<td>Academic Paper</td>
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<tr>
<td>Individual Research-Based Essay &amp; Presentation</td>
<td>Presentation &amp; Oral Defense</td>
</tr>
<tr>
<td>End-of-Course Exam</td>
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</tbody>
</table>

**4 AP Courses & Exams**
(Taken at any point throughout high school)
Thompson Valley High School

**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](http://collegeboard.org/apcapstonehed).
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 text books. 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.

Please contact your high school to obtain a listing of high school select classes.
E3: Explore, Engage, and Expand

E³ is an authentic, personalized learning program which allows TSD, K-12 learners to leverage their strengths, passions, and interests to create an educational pathway to satisfy learning standards and graduation requirements. Learners collaborate with educators and expert mentors to:

Explore:
Learners explore ideas and concepts in an experiential manner. That exploration leads to important discoveries, while learners continue to grow in their ability to read, write, and calculate.

Engage:
As E³ learners discover their interests and passions through exploration, they begin to engage through independent study projects facilitated by educators and expert mentors who enhance learning and provide authentic, real-world experiences.

Expand:
As learners engage in their personal learning plans, they discover expanded options which lead to graduation. Based from TSD’s diverse range of programming, E³ learners access the support they need to reach their personal life goals.

https://www.thompsonschools.org/e3learning
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.**

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
Jeannette Ryan, Assistant Principal  jeanette.ryan@thompsonschools.org, 970-613-5277

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 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 Language and Literature; Spanish, German or French; History of the Americas or Business and Management; Biology and/or Chemistry and Mathematics. 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 as an IB Diploma Candidate. 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, taught in over 4,000 schools in 150 countries.

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](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 $119 fee per subject exam. Low-income students on the free and reduced lunch program are eligible for significant subsidization on the IB testing fees. 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.

(IBO)

**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).
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 understanding of a global context
- reflect on learning and share knowledge, view and opinion
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 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 2021-2024)**

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 / Career Pathway Advanced Elective for each course

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
Loveland area Integrated School of the Arts (LISA) at Mountain View High School

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 (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
<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
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<tbody>
<tr>
<td><strong>LISA PRE AP ENGLISH 9</strong></td>
<td>1200, 1201</td>
</tr>
<tr>
<td>Credit: 1.0 Language Arts</td>
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<tr>
<td><strong>In LISA Pre AP English 9, students will:</strong></td>
<td></td>
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<tr>
<td>• use the visual and performing arts as an emphasis to learn the content listed below</td>
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<tr>
<td>• learn and identify language skills, use correct mechanics, and study vocabulary</td>
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<tr>
<td>• read, respond, and apply thinking skills to novels, short stories, nonfiction, poetry and a Shakespeare play</td>
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<tr>
<td>• write, using the writing process, compare/contrast, cause/effect, and problem/solution short responses and essays</td>
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<tr>
<td>• present a problem/solution or cause/effect presentation</td>
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<tr>
<td><strong>LISA CIVICS HONORS</strong></td>
<td>4200, 4201</td>
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<tr>
<td>Credit: 1.0 Social Studies</td>
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<tr>
<td><strong>In LISA Pre AP Civics, students will:</strong></td>
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<tr>
<td>• use the visual and performing arts as an emphasis to learn the content listed below</td>
<td></td>
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<tr>
<td>• gain an understanding of the law and the legal system of the United States</td>
<td></td>
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<tr>
<td>• be aware of current issues and be encouraged to participate as citizens in the legal system</td>
<td></td>
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<tr>
<td>• receive an introduction to the origin and development of our legal system</td>
<td></td>
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<tr>
<td>• perform required community service</td>
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<tr>
<td><strong>LISA CIVICS INTEGRATED WITH ECONOMICS HONORS</strong></td>
<td>4014, 4015</td>
</tr>
<tr>
<td>Credit: 1.0 Social Studies</td>
<td></td>
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<tr>
<td><strong>In LISA Pre AP Civics and Economics, students will:</strong></td>
<td></td>
</tr>
<tr>
<td>• use the visual and performing arts as an emphasis to learn the content listed below</td>
<td></td>
</tr>
<tr>
<td>• gain an understanding of the law and the legal system in the United States</td>
<td></td>
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<tr>
<td>• be aware of current issues and be encouraged to participate as citizens in the legal system</td>
<td></td>
</tr>
<tr>
<td>• receive an introduction to the origin and development of our legal system and government</td>
<td></td>
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<tr>
<td>• perform required community service</td>
<td></td>
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<tr>
<td>• develop an understanding of the basics of microeconomics and macroeconomics</td>
<td></td>
</tr>
<tr>
<td>• study the American economic system, other types of economic systems, their functions, and their effects around the world</td>
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<tr>
<td><strong>LISA PRE AP WORLD GEOGRAPHY 1</strong></td>
<td>4210</td>
</tr>
<tr>
<td><strong>LISA PRE AP WORLD GEOGRAPHY 2</strong></td>
<td>4211</td>
</tr>
<tr>
<td>Credit: 1.0 Social Studies</td>
<td></td>
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<tr>
<td><strong>In LISA Pre AP World Geography 1 and 2, students will:</strong></td>
<td></td>
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<tr>
<td>• use the visual and performing arts as an emphasis to learn the content listed below</td>
<td></td>
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<tr>
<td>• be presented to a geographic view of the world through the use of the five themes of geography</td>
<td></td>
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<tr>
<td>• develop map skills that will enable them to analyze human interaction between cultures and the environment</td>
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<tr>
<td><strong>LISA PRE AP GEOPHYSICAL</strong></td>
<td>3200, 3201</td>
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<tr>
<td>Credit: 1.0 Science</td>
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</tr>
<tr>
<td><strong>In LISA Pre AP Geophysical Lab Science, students will:</strong></td>
<td></td>
</tr>
<tr>
<td>• use the visual and performing arts as an emphasis to learn the content listed below</td>
<td></td>
</tr>
<tr>
<td>• investigate astronomy, meteorology, hydrology, geology, and paleontology</td>
<td></td>
</tr>
<tr>
<td>• quantitatively analyze the above subjects with introductory concepts and tools from chemistry and physics to increase critical skills</td>
<td></td>
</tr>
</tbody>
</table>
**LISA Courses**

**LISA PRE AP BIOLOGY**  
Credit: 1.0 Science  
3202, 3203

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  
6802

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  
6803

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 Language Arts  
8695

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>School(s)</th>
<th>Credit</th>
<th>Pathway</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerospace Engineering</td>
<td>8410, 8411</td>
<td>MVHS</td>
<td>1.0 Applied Arts / CTE</td>
<td>Project Lead the Way / Engineering - STEM, Arts, Design and Information Technology</td>
</tr>
<tr>
<td>Computer Integrated Manufacturing</td>
<td>8406, 8407</td>
<td>BHS</td>
<td>1.0 Applied Arts / CTE</td>
<td>Project Lead the Way / Engineering - STEM, Arts, Design and Information Technology</td>
</tr>
<tr>
<td>Engineering Design and Development</td>
<td>8414, 8415</td>
<td>MVHS</td>
<td>1.0 Applied Arts / CTE</td>
<td>Project Lead the Way / Engineering - STEM, Arts, Design and Information Technology</td>
</tr>
<tr>
<td>Environmental Sustainability</td>
<td>3080, 3081</td>
<td>BHS</td>
<td>1.0 Science</td>
<td>Project Lead the Way / Engineering - STEM, Arts, Design and Information Technology</td>
</tr>
<tr>
<td>Introduction to Engineering Design</td>
<td>8400, 8401</td>
<td>BHS, MVHS</td>
<td>1.0 Applied Arts / CTE</td>
<td>Project Lead the Way / Engineering - STEM, Arts, Design and Information Technology</td>
</tr>
<tr>
<td>Principles of Engineering</td>
<td>8402, 8403</td>
<td>BHS, MVHS</td>
<td>1.0 Applied Arts / CTE</td>
<td>Project Lead the Way / Engineering - STEM, Arts, Design and Information Technology</td>
</tr>
</tbody>
</table>

**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

**Computer Integrated Manufacturing, students will:**
- learn concepts of robotics and automated manufacturing by creating three-dimensional designs with modeling software and producing models of their designs

**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.

**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

**Introduction to Engineering Design, students will:**
- develop problem-solving skills using a design development process
- models of product solutions are created, analyzed, and communicated using solid modeling computer design software

**Principles of Engineering, students will:**
- understand the field of engineering technology
- 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...
• understand concerns about social and political consequences of technological change
**Science Technology Engineering Math (STEM)**
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.
STEM Program Course Requirements Class of 2023

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.

<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 Chemistry</td>
<td>1.0</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AP Biology or AP Environmental Science</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 Algebra 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 Statistics Path</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Algebra 1/Geometry OR Algebra 1/Geometry</td>
<td>1 or 2</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Geometry/Algebra 2 OR *Geometry/Algebra 2</td>
<td>1 or 2</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trigonometry OR Pre-Calculus</td>
<td>1</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trigonometry / AP Statistics OR AP Calculus AB</td>
<td>1 or 2</td>
<td>12</td>
</tr>
<tr>
<td>Math/Science</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 English 9</td>
<td>1.0</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>English 10 or Pre-AP English 10</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 Composition</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></td>
<td></td>
<td>Economics</td>
<td>0.5</td>
<td>12</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1.0</td>
<td>Health</td>
<td>0.5</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fitness</td>
<td>0.5</td>
<td>9</td>
</tr>
<tr>
<td>World Language</td>
<td>2</td>
<td>Spanish OR</td>
<td></td>
<td></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>Programming 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>
</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>Freshman Year</th>
<th>Sophomore Year</th>
<th>Junior Year</th>
<th>Senior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 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 Math (1.0)</td>
<td>Math (1.0)</td>
<td>Math (1.0)</td>
<td>AP Math (1.0)</td>
</tr>
<tr>
<td>3 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 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 Civics (0.5)/</td>
<td>Speech (0.5)/</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 Health (0.5)/Fitness (0.5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Additional STEM Graduation Requirements - Plug them into your schedule and check off the box.**

**Technology - .50 credit**

**1.0 Engineering – 1.0 credit**
Choose from: Intro to Engineering, Principles of Engineering, Computer Integrated Manufacturing, & Environmental Sustainability

**World Language – 2.0 credits of the same language**
Spanish or French

**Fine Art – 1.0 credit**
Choose from Visual Arts or Music

**Career Pathway Electives – 5.0 credits**
The additional 2.0 AP Science credits required for the STEM diploma will count toward this, plus the Senior Research. Choose additional 0.5 credit that relates to your career plans.
Thompson Online Program

Thompson Online Campus (TOC) provides a virtual learning experience for students in grades K-12 enrolled in the Thompson School District. TOC strives to create a student-focused learning environment where learning targets are identified and an online learning plan is developed. The end result is a personalized online learning experience for each student.

Students have access to curriculum and assignments 24 hours a day, 7 days a week, from anywhere with an internet connection. Teachers and students interact face to face and virtually via email and Class Connect. Instructional delivery and feedback are also available in our learning labs, located at Ferguson High School, throughout the school year.

A student’s learning experience is tailored to their instructional needs, pacing preferences, and lab/teacher support needs. Courses are delivered synchronously and asynchronously allowing for enrollments throughout the school year. A synchronous enrollment works 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 align with the traditional semester schedule.

TOC affords access to a variety of classes including credit recovery, core, comprehensive (NCAA Approved), AP/Honors (as needed), and CTE (coming soon) classes.
Pathfinder Work-Based Learning Program

Pathfinder Internship

The Pathfinder Work-Based Learning Program provides a continuum of real-world opportunities for students at all levels to explore career paths while gaining valuable work experience, building career and college readiness skills, and making valuable connections to the community.

Pathfinder Internship: The Pathfinder Internship provides students with the opportunity to work with a local business or organization in order to:
• Expand their awareness and knowledge of career opportunities in an industry
• Build knowledge and skills related to that career pathway, and
• Develop personal and work-related skills in a professional environment

*Internships are typically unpaid. Students will work with the Business Community Coordinator to secure a site.

Pathfinder Internship Requirements/Prerequisites:
• Juniors or Seniors (apply as a sophomore or junior)
• On-track for on-time graduation from high school
• 2.25 GPA and 2 letters of recommendation
• Strong attendance and positive behavior
• Must provide own transportation
• Readiness for an Internship may be determined by the student’s attainment of skills/knowledge related to the chosen pathway, which may be evidenced through completion of a course(s), their ICAP, through work or volunteer experience, or as stated through the letters of recommendation.

Credits and Scheduling
1.5 credits per semester. Qualifies for the Career Pathways Elective graduation requirement, students will receive a grade of S or U (pass/fail) for the semester, does not impact GPA.
• Time length: 1 semester, may be repeated for a second semester.
• Hours: 195 total hours at worksite per semester, approx. 11 hours/week
• Schedule: Students spend half the day at school and the other half of the day at their internship site.

Pathfinder Internship Application Process:
1. Special Note related to COVID-19: We are currently in the process of determining if students are able to participate in TSD-sponsored unpaid internships during the 2021-22 school year. More information to come in early 2021.
2. Attend a virtual Work-Based Learning Information Night in January or February 2021 (dates and details to come). This event is not required, but is a great opportunity for students and families to learn about all the work-based learning options and get help building a resume.
3. Complete the ONLINE APPLICATION (including 2 letters of recommendation). Application deadline is March 31, 2021.
4. Internship Discovery Meeting: After applying, eligible students will be invited to meet with the Business Community Coordinator to determine readiness for a Pathfinder Internship and discuss options for securing a site. Students take the lead in securing a site and will meet/interview with businesses.
5. Register for Course and Next Steps: Once accepted into the program, students will then meet with their counselor to register for internship as part of their course schedule. We will connect you with your school’s Work-Based Learning Coordinator to polish your resume and interview skills and to establish check-ins and coursework requirements. Prior to the start of your internship, you will also participate in a mandatory Workplace Readiness Training.
For more information about the Pathfinder Work-Based Learning Program, please visit your school’s work based learning coordinator or our website at www.thompsonschools.org/WBL.

Please contact your school’s Work-Based Learning Coordinator
- Berthoud: Robb Sommerfeld  robert.sommerfeld@thompsonschools.org
- Loveland: Richy Lynn  richy.lynn@thompsonschools.org
- Mountain View: Erik Kaufhold  erik.kaufhold@thompsonschools.org
- Thompson Valley: Ryan Stillahn  ryan.stillahn@thompsonschools.org
- Ferguson/TCC: Suzanne Ellis  suzanne.ellis@thompsonschools.org

For general information about the Pathfinder Work-Based Learning Program, please contact: Susan Scott, TSD Business Community Coordinator at susan.scott@thompsonschools.org 970.613.5081

Other Internship Opportunities hosted/coordinated by community partners:
Other Internship opportunities exist in our community and are offered to our current students and sometimes recent graduates. Opportunities will be posted on thompsonschools.org/WBL and advertised district wide through various channels. If specific course credit is not indicated below, Career Pathways Elective credit is awarded based on this scale (rounded down to closest number of hours):

- 195 hrs = 1.5 cr
- 162.5 hrs = 1.25 cr
- 130 hrs = 1 cr
- 97.5 hrs = .75 cr
- 65 hrs = .5 cr
- 32.5 hrs = .25 cr

- **LCEWD Manufacturing and Healthcare Summer Internships:** Larimer County Economic and Workforce Development (LCEWD) in partnership with the Northern Colorado Manufacturing and Health Sector Partnerships, hosts paid internships with manufacturers and health care providers throughout northern Colorado. Details about these internships (subject to change):
  - Summer internships - June to August
  - Paid positions - $13/hour
  - 250 total hours, some interns work less
  - Open to youth ages 16-18 (graduating seniors welcome to apply)
  - Application support is available including resume and interview preparation
  - Applications typically open in March every year and close in early April
  - For more information and online application, visit: https://www.larimer.org/ewd/young-adults/careerrise/summer-opportunities

- **UCHealth Radiology Internship Program:** Radiology Interns independently complete research on the various imaging modalities (MRI, CT scan, Ultrasound, etc) and deliver presentations on their research to UCHealth Radiology staff. For each modality, interns will participate in on-site job shadowing at Medical Center of the Rockies in the imaging department, emergency room, operating room, ICU, labor and delivery, etc. Details about this internship:
  - Internship typically takes place from September to April
  - Unpaid internship open to Juniors and Seniors with an exhibited interest in a healthcare career
  - Approximately 130 total hours of research and on-site shadowing
  - 1 Career Pathways Elective Credit
  - Must provide own transportation to MCR and complete certain immunizations to participate
Online applications typically open in early March and close in early April, but may be impacted by COVID. Details for the upcoming year will be posted on thompsonschools.org/WBL.
Pathfinder Apprenticeship

The Pathfinder Work-Based Learning Program provides a continuum of real-world opportunities for students at all levels to explore career paths while gaining valuable work experience, building career and college readiness skills, and making valuable connections to the community.

The Pathfinder Apprenticeship encompasses CareerWise Colorado Apprenticeships, DOL Registered Apprenticeships, and other Industry-Recognized Apprenticeships that are all forms of employer-driven experiential learning comprised of the following elements:

- Paid on-the-job training
- Related classroom instruction that increases the student/employee’s skill level and wages
- Industry-recognized credential(s) or certificate(s)

There are currently 2 main apprenticeship opportunities for TSD students:

- **CareerWise Colorado:**
  - 3 year apprenticeships
  - Earn a minimum of $30,000 over the course of the apprenticeship
  - Earn about 1 semester’s worth of FREE college credit related to the apprenticeship pathway, via a local higher education partner
  - Earn a nationally recognized credential or certificate
  - Available positions and employers vary from year to year. Positions have been developed in the following career areas: Business Operations, Construction, Education, Financial Services, Healthcare, Hospitality, IT, Manufacturing and Real Estate Management.

- **Columbine Health Systems:**
  - 2 year apprenticeships, Department of Labor registered apprenticeship
  - Apprentices earn their CNA Certification and receive Clinical Career Training in these areas: Personal Care Provider, Feeding Assistant, Resident Assistant, and Preceptor.
  - Pay increases after various trainings are completed.
  - Apprentices complete training in Fort Collins but can work at a Loveland location.

**Pathfinder Apprenticeship Requirements/Prerequisites:**

- Age 16 by the start of apprenticeship, Juniors or Seniors (apply as a sophomore or junior)
- On-track for on-time graduation from high school
- Strong attendance and positive behavior
- Must provide own transportation

Apprenticeships may have other requirements including a drug screen, background check, aptitude tests, immunizations, job function tests, etc.

Apprenticeships are competitive and employers make the final hiring decision.

**Credits and Scheduling**

**1.5 credits per semester.** Qualifies for the Career Pathways Elective graduation requirement, students will receive a grade of S or U (pass/fail) for the semester, does not impact GPA.

- **Time length:** 2-4 years, depending on industry and credential. CareerWise apprenticeships are 3 years.
- **Hours:** minimum of 195 hours at worksite per semester, approx. 12-16 hrs/wk junior year, 20-24 hrs/wk, senior year.
- **Schedule:** Morning or afternoon schedule, depending on business needs or student schedule constraints.

**Pathfinder Apprenticeship Application Process:**

1. **Attend a virtual Work-Based Learning Information Night** in January or February 2021 (dates and details to come). This event is not required, but is a great opportunity for
students and families to learn about all the work-based learning options and receive support and resources for resumes, cover letters, and interview preparation. A separate info night will be held for Columbine Health Systems CNA apprenticeships.

2. **Apply for apprenticeship opportunities:** Students apply for an apprenticeship like they would a job, and if hired by the employer, work with their counselor afterwards to make adjustments to their schedule.

3. **CareerWise Colorado Hiring Hub:** Students create an online profile and upload a resume. Once approved by the Work-Based Learning Coordinator at your school, students can then apply for available positions. Students can create their profile now and then submit applications for positions as they are announced throughout the spring. Apply early for best opportunity. **Complete your student profile NOW at [www.careerwisecolorado.org](http://www.careerwisecolorado.org).**

4. **Columbine Health Systems apprenticeships:** Columbine Health hires during spring semester and application information and materials will be posted at thompsonschools.org/WBL and shared with students at each high school.

5. **Register for Course and Next Steps:** Once hired by the employer for an apprenticeship, students will then meet with their counselor to register for apprenticeship as part of their course schedule. We will connect you with your school’s Work-Based Learning Coordinator to establish check-ins and coursework requirements. Prior to the start of your apprenticeship, you will also participate in an Apprentice Boot Camp.

For more information about the Pathfinder Work-Based Learning Program, please visit your school’s work based learning coordinator or our website at [www.thompsonschools.org/WBL](http://www.thompsonschools.org/WBL).
Thompson Career Campus - Manufacturing & Design
Computer-Aided Drafting/Design, CNC Machining, PLC’s, Manufacturing Processes

YEAR 1  All coursework and course sequencing/credit to be determined in collaboration with AIMS Community College

<table>
<thead>
<tr>
<th>Semester 1 - Safety &amp; Basic Foundational Machining</th>
<th>Semester 2 - Manufacturing Design &amp; Mass Production</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturing/Design 1 AM - CPT 5000</td>
<td>Manufacturing/Design 1 AM - CPT 5004</td>
</tr>
<tr>
<td>Manufacturing/Design 1 PM - CPT 5002</td>
<td>Manufacturing/Design 1PM - CPT 5006</td>
</tr>
</tbody>
</table>

YEAR 2  All coursework and course sequencing/credit to be determined in collaboration with AIMS Community College

<table>
<thead>
<tr>
<th>Semester 3</th>
<th>Semester 4 - Manufacturing Processes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturing/Design 2 AM - CPT 5010</td>
<td>Manufacturing/Design 2 AM - CPT 5014</td>
</tr>
<tr>
<td>Manufacturing/Design 2 PM - CPT 5012</td>
<td>Manufacturing/Design 2 PM - CPT 5016</td>
</tr>
<tr>
<td></td>
<td>Work Based Learning Internship/Apprenticeship</td>
</tr>
</tbody>
</table>

Program Overview

Students will explore and learn how to use cutting edge technology in areas such as computer aided drafting (CAD) and computer aided machining (CAM). Students will study and learn about advanced CAD/CAM, manufacturing processes Programmable Logic Controllers (PLC’s), and about the theoretical and operational characteristics of CNC machining.

Credits

- Semester 1: CTE: .5, ELA: .5, Science: .5, Concurrent Enrollment (AIMS): 5.0
- Semester 2: CTE: .5, ELA: .5, Math: .5, Concurrent Enrollment (AIMS): 7.0
- Semester 4: CTE: .5, ELA: .5, Work Based Learning: .5, Concurrent Enrollment (AIMS): 5.0

Industry Credentials & Certifications

- Semester 1: OSHA 10 - Manufacturing, CAD
- Semester 2: Autodesk INVENTOR
- Semester 3: Six Sigma, 5S Certification

Student Outcomes

- Explore concepts and introductory coursework in manufacturing production processes
- Manufacturing troubleshooting, maintenance, and operations
- Learn about design in the manufacturing industry and enterprise
- Review simple math skills and build upon engineering based principles of mathematics and working through problem solving tasks and assignments
- Learn to use and apply a CAD model along with the origins of measurement in manufacturing, calibration, true measurement, measurement error, and maintaining quality in manufacturing
- Receive training in Inventor and blueprint reading
- Demonstrate proper safety procedures for manufacturing processes and material handling
• Plan, design, and create a product that will tie student learning of manufacturing with a community focused goal
• Learn how programmable logic controllers manipulate industrial robotic arms, the design of robots, and the construction of robots

**Career Information**

CO Average Entry Level Salary

- Maintenance Technician $43,800
- Quality technician $48,900
- CAD Drafter $60,700
- Production Technician $62,000

About 4.8 million manufacturing jobs are predicted through 2028.

**For More Information**

Please visit [www.thompsonschools.org/CTE](http://www.thompsonschools.org/CTE) or email [cte@thompsonschools.org](mailto:cte@thompsonschools.org)
**Thompson Career Campus - Construction Skilled Trades**

**Construction, Electrical, Plumbing, & Intro to HVAC**

**Program Overview**
Students will receive advanced hands-on experience in construction and construction-related occupations such as electrical, plumbing and heating, ventilation and air conditioning (HVAC).

**Career Information**

CO Average Entry Level Salary
- Plumbing Apprentice - $33,900
- Electrician Journeymen - $45,700

The average construction industry salary in Colorado is $62,000

**Credits**
- Semester 1: CTE: .5, ELA: .5, Science: .5, Concurrent Enrollment (AIMS): 5.0
- Semester 4: CTE: .5, ELA: .5, Work Based Learning: .5, Concurrent Enrollment (AIMS): 6.0

**Industry Credentials and Certifications**
- Semester 1: OSHA 10 - Construction, HBI PACT CORE, AutoCAD
- Semester 2: Autodesk - REVIT
- Semester 3: HBI PACT ELECTRICAL
- Semester 4: HBI PACT PLUMBING

**Student Outcomes**
- Learn about career readiness within the construction trades industry to include operating heavy machinery/equipment, and blueprint reading
- Learn about the basics of welding including soldering
- Learn about the basics of electrical which includes working with electrical boxes, receptacles, switches, circuits, wiring protection devices, installation of appliances, commercial wiring, and electrical panels
- Learn about the basics of plumbing technology processes, pipefitting, reading plumbing blueprints, and the installation of fixtures and appliances
- Expand on their knowledge of AC/DC currents, electrical circuits, and fundamental electronics
- Demonstrate their understanding of electrical power/generation, distribution and safety with electricity
- Learn about the National Electrical Code, about boxes and enclosures, cables, raceways, conductors, load calculations of one family dwellings, service and electrical equipment for one family dwellings, non-dwelling load calculations, services, feeders, equipment, and hazardous locations
- Learn to plan, install, and service basic plumbing systems
- Learn how to install fixtures, piping and piping equipment, and controls
- Study building plans/blueprints, determine the layout of a system, determine and mark the positions where connections and fixtures will occur, assemble a piping system and assemble and install valves and fittings, and check the system for leaks
- Review mathematical concepts such as decimals, fractions, percentages, metric conversions, units of measurement, ratios, and reading and interpreting data. Other topics include finding the area, volume, drop, pitch, and run

**For More Information**

Please visit [www.thompsonschools.org/CTE](http://www.thompsonschools.org/CTE) or email [cte@thompsonschools.org](mailto:cte@thompsonschools.org)
Thompson Career Campus – Health Sciences  
Certified Nursing Assistant, Medical Terminology, & Medical Assistant

**Program Overview**
Students will receive training in therapeutic, diagnostic and supportive care services. In this pathway, students will become knowledgeable about health informatics, medical research and research development, and will learn how to assist with medical examinations, implement billing best practices, deliver quality patient and residential care as a certified nursing assistant.

**Career Information**

| CO Average Entry Level Salary | Certified Nursing Assistant (CNA) - $32,000 |

**Credits**
- Semester 1: CTE: 1.0, Science: 0.5, Concurrent Enrollment (FRCC): 7.0
- Semester 2: CTE: 1.0, Science: 0.5, Concurrent Enrollment (FRCC): 8.0
- Semester 3: CTE: 1.0, ELA: 0.5, Concurrent Enrollment (FRCC): 9.0
- Semester 4: CTE: 1.0, ELA: 0.5, Concurrent Enrollment (FRCC): 8.0

**Industry Credentials & Certifications**
- Semester 1: Certified Nursing Assistant (CNA), CPR
- Semester 2: Medical Office Administrative Assistant (MOAA)
- Semester 3: None
- Semester 4: Medical Assistant (MA) - Requires additional summer coursework through FRCC (out of pocket expense for students).

**Student Outcomes – Health Careers and Health Science Studies**
- Learn about and practice the fundamental skills of becoming a certified nursing assistant
- Explore and learn beginning nursing skills, communication skills, personal care skills, safety, and emergency care issues involved in the healthcare industry
- Know and understand OSHA and HIPPA regulations
- Understand professionalism and how this looks in the medical profession while understanding ethical behaviors and maintaining cultural sensitivity
- Learn about mental health care including common symptomatology and diagnoses
- Participate in patient care and clinical studies to include: patient safety, foundational anatomy and physiology coursework, patient care principles, patient communication, data collection and reporting, and understanding legal issues in the healthcare industry
participate in advanced clinical coursework to include: surgical prep, performing basic urinalysis, feeding patients, transporting patients, preventing infection, taking vitals and recording vitals, assisting patients with walking after procedures, applying and changing dressing, attending to skin care, identifying patient's needs, lifting and transferring patients, collecting specimens, maintaining a clean environment, and following care plans

- Be able to pronounce medical terms and know their relative use in the healthcare setting
- Receive an introduction to clinical physiology
- Learn the basics on how to assemble charts, assist with billing, obtain vitals and obtain a patient measurements, enter data into medical records, reconcile medications, administer screening questionnaires, plan visits for preventative or chronic-care management, place follow up appointments or phone calls, follow confidentiality protocols as defined in HIPAA Act and to follow the 6 C's of medical records: clients words, clarity, completeness, conciseness, chronological order, confidentiality
- Continue to learn and use medical terminology in a clinical setting
- Learn basic medical terminology, the legality of maintaining medical records and confidentiality and develop skills in medical coding, bookkeeping, and running financial reports

For More Information

Please visit [www.thompsonschools.org/CTE](http://www.thompsonschools.org/CTE) or email [cte@thompsonschools.org](mailto:cte@thompsonschools.org)
**Thompson Career Campus – Information Technology**

**Software Development, Computer Hardware Technology, Cyber Security**

**Program Overview**

Students will explore a variety of IT industry-related coursework including software development computer hardware technology, introductory computer networking and system administration, and cyber security systems (network security, cloud security, cyber law, digital forensics).

**Career Information**

**CO Average Entry Level Salary**
- Junior Coder - $54,500
- Computer Support Technician - $56,700
- Information Security Analyst - $57,500
- Quality Assurance Tester - $58,100

The median technology occupation wage in Colorado is $90,400

**Credits**

- Semester 1: CTE: .5, ELA: .5, Science: .5, Concurrent Enrollment (AIMS): 6.0
- Semester 4: CTE: .5, ELA: .5, Work Based Learning: .5, Concurrent Enrollment (AIMS): 6.0

**Industry Credentials & Certifications**

- Semester 1: COMP TIA A+
- Semester 2: COMP TIA Security+, Linux +
- Semester 3: COMP TIA Cloud+
- Semester 4: Cyber Security (AIMS)

**Student Outcomes**

- Understand the newest software applications through certification and coursework exploration
Understands the basics of integration, applications, support essentials, and working as a technician (hardware technology)

Learn about the fundamentals of communication (security) such as remote access, email, the web, directory and/or file transfer, and wireless data

Work/Learn within the Comp TIA Security & Linux +

Explore the differences between PC server based networks vs. cloud computing

Work/Learn within Comp TIA Cloud + program

Investigate the benefits of cloud computing, cloud models, and the deployment of cloud models and solutions

Students will become familiar with understanding cloud computing to include articulating the main concepts, key technologies, strengths, and limitations of cloud computing

Students will explore information architecture and vulnerabilities, client-server security, and about hacking

Students will learn about threats to computer networks, will be able to assess online vulnerability, practice and investigate incident response protocols, engage in disaster recovery processes, and understand and demonstrate learning in computer forensics

Students will learn about various topics of study within a very specific cyber focused curriculum that includes understanding data security, software security, component security, network security, system security, investigation of cyber attacks, and protecting human data

Students will be able to assess the security risks of a system that has been developed or is being developed and will engage in scenarios that will allow them to identify internet misuse or threats

Students will study the vulnerabilities of components, security testing, creating secure component design principles, and the component lifecycle and will learn more about intellectual property, piracy, tampering, and Trojans

Students will explore different algorithms that affect cyber security and safety, applied cryptography, email security, authentication, message integrity, proof of submission and delivery, message confidentiality, and common network attacks

**For More Information**

Please visit [www.thompsonschools.org/CTE](http://www.thompsonschools.org/CTE) or email cte@thompsonschools.org
Aims Community College - Career Academy Information

Graphic Design – Loveland Campus

Certificates & Classes

<table>
<thead>
<tr>
<th>Graphic Software &amp; Applications Certificate</th>
<th>1st Semester</th>
<th>Credits</th>
<th>2nd Semester</th>
<th>Credits</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
  o Excused absences may be granted for extenuating and documented circumstances.
  o 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</td>
<td>Brian Dunning</td>
</tr>
<tr>
<td>(970) 339-6542</td>
<td>(970) 339-6659</td>
<td>(970) 339-6479</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:brian.dunning@aims.edu">brian.dunning@aims.edu</a></td>
</tr>
</tbody>
</table>
Certificates & Classes

Basic Animation Certificate

<table>
<thead>
<tr>
<th>1st Semester</th>
<th>Credits</th>
<th>2nd Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGD 142 – Digital Animatics</td>
<td>3</td>
<td>MGD 119 – Maya I</td>
<td>3</td>
</tr>
<tr>
<td>MGD 152 – 2D Animation Production</td>
<td>3</td>
<td>MGD 219 – Maya II</td>
<td>3</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 and 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
**Classes**

<table>
<thead>
<tr>
<th>1st Semester</th>
<th>Credit</th>
<th>2nd Semester</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>FST 102 - Principles of Emergency Services</td>
<td>3</td>
<td>FST 103 - Fire Behavior</td>
<td>3</td>
</tr>
<tr>
<td>FST 105 - Building Construction</td>
<td>3</td>
<td>FST 106 - Fire Prevention</td>
<td>3</td>
</tr>
</tbody>
</table>

**When are classes**

Fire Science classes will be held on Tuesdays and Thursdays from 1:30 - 3 p.m. The schedule of classes will run on the Aims academic calendar.

**Prerequisites**

See your high school counselor to determine for eligibility criteria for participation in the program.

In some cases, qualifying test scores may be required prior to enrollment in a course.

Complete the Concurrent Enrollment application packet as provided by your high school.
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, FALL 2021-SPRING 2022

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 to see which courses are available at your school.

CAMPUS SELECT PROGRAM, FALL 2021-SPRING 2022

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

CAREER PATHWAYS PROGRAM, FALL 2021-SPRING 2022

Available Programs:

- Automotive Technology & Service
- Welding & Metal Fabrication

- Take classes with other high school students on campus at FRCC.
- Programs emphasize hands-on learning in the FRCC Automotive and Welding shops in addition to classroom activities. There is a student fee of $100 or less in each program.
- 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) high interest in program area 2) 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. 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.

<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 102 – 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 102</td>
<td></td>
</tr>
<tr>
<td>ASE 140 - Steering &amp; Suspension (2 credits)</td>
<td>Fall</td>
<td>Pre-requisite of ASE 102</td>
<td>Fall: 6 credits</td>
</tr>
<tr>
<td>ASE 120 – Basic Auto Electricity (2 credits)</td>
<td>Spring</td>
<td>Pre-requisite of ASE 102</td>
<td></td>
</tr>
<tr>
<td>ASE 130 - General Engine Diagnosis (2 credits)</td>
<td>Spring</td>
<td>Pre-requisite of ASE 102</td>
<td>Spring: 4 credits</td>
</tr>
</tbody>
</table>

Updated 2/3/21
Group 2:

<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 102 – Auto Shop Orientation (2 credits)</td>
<td>Fall</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>ASE 120 – Basic Auto Electricity (2 credits)</td>
<td>Fall</td>
<td>Pre-requisite of ASE 102</td>
<td></td>
</tr>
<tr>
<td>ASE 130 - General Engine Diagnosis (2 credits)</td>
<td>Fall</td>
<td>Pre-requisite of ASE 102</td>
<td>Fall: 6 credits</td>
</tr>
<tr>
<td>ASE 140 - Steering &amp; Suspension (2 credits)</td>
<td>Spring</td>
<td>Pre-requisite of ASE 102</td>
<td></td>
</tr>
<tr>
<td>ASE 110 - Brakes I (2 credits)</td>
<td>Spring</td>
<td>Pre-requisite of ASE 102</td>
<td></td>
</tr>
</tbody>
</table>

Total: 10 credits

2. 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 hands-on training in the FRCC Welding Shop, classroom activities, and group projects.

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 101 - Allied Cutting Processes (4 credits)</td>
<td>Fall</td>
<td>Prerequisite or Co-requisite: WEL 100</td>
<td>Fall: 5 credits</td>
</tr>
<tr>
<td>WEL 103 – Basic Shielded Metal Arc I (4 credits)</td>
<td>Spring</td>
<td>Prerequisite or Co-requisite: WEL 100</td>
<td></td>
</tr>
<tr>
<td>WEL 201 – Gas Metal Arc Welding I (4 credits)</td>
<td>Spring</td>
<td>Prerequisite or Co-requisite: WEL 100</td>
<td>Spring: 8 credits</td>
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<td>Total: 13 credits</td>
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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 full time 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.