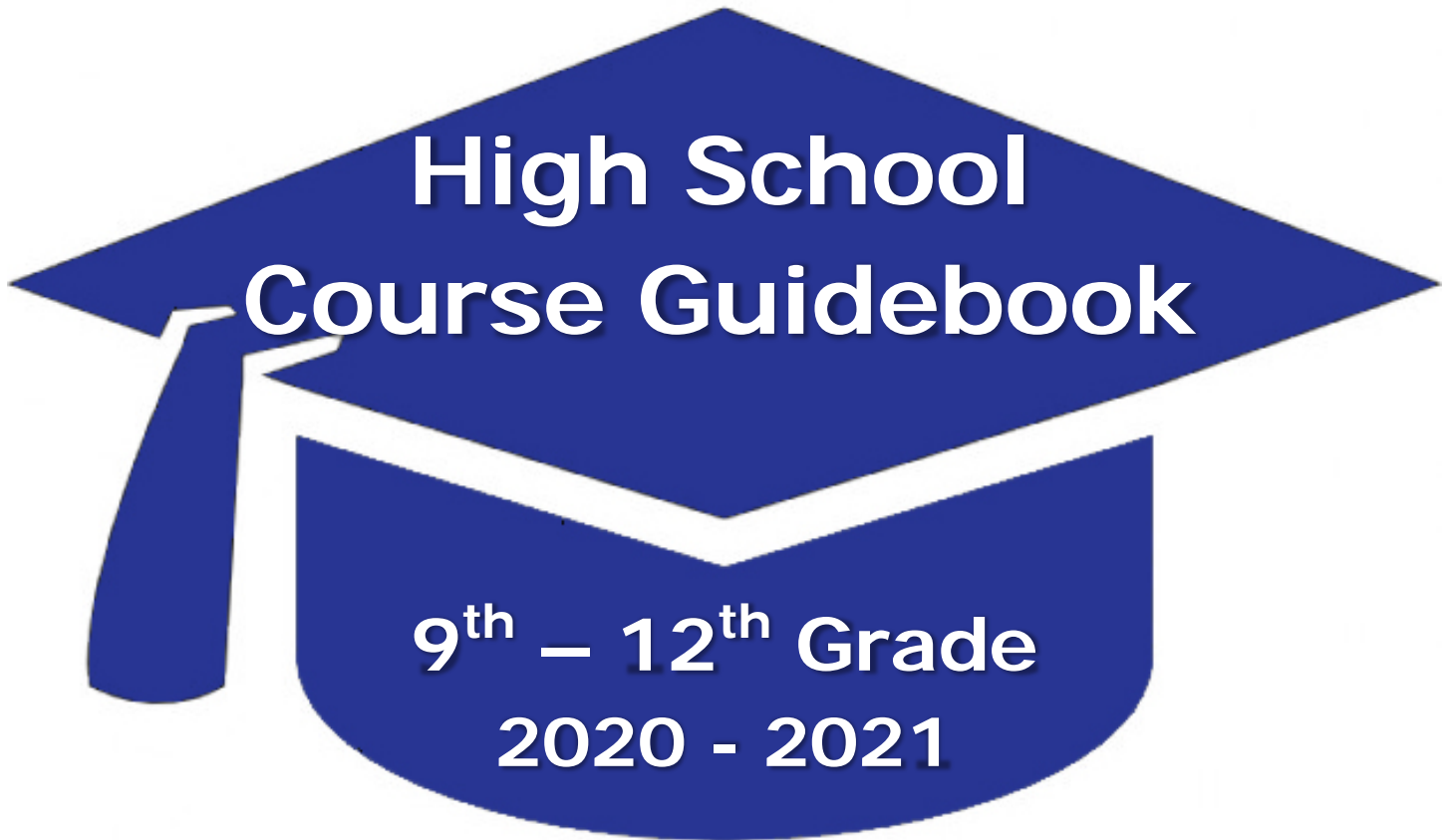


# Thompson School District



Berthoud High School  
Harold Ferguson High School  
Loveland High School  
Mountain View High School  
Thompson Valley High School



• Empower to Learn • Challenge to Achieve • Inspire to Excel •

# 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.thompsonschoools.org/berthoudhs>

**CEEB CODE FOR BHS**  
**060-095**



Harold Ferguson High School (FHS)  
1101 Hilltop Drive  
Loveland, CO 80537  
Principal: Jason Germain  
970-613-5300

Counseling Office: 970-613-5329

<https://www.thompsonschoools.org/ferguson>

**CEEB CODE FOR FHS**  
**060-946**



Loveland High School (LHS)  
920 W 29th Street  
Loveland, CO 80538  
Principal: Todd Ball  
970-613-5200

Counseling Office: 970-613-5203

<https://www.thompsonschoools.org/loveland>

**CEEB CODE FOR LHS**  
**060-950**



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.thompsonschoools.org/mountainview>

**CEEB CODE FOR MVHS**  
**060-951**



Thompson Valley High School (TVHS)  
1669 Eagle Drive  
Loveland, CO 80537  
Principal: Jaymie Cruickshank  
970-613-7900

Counseling Office: 970-613-7916

<https://www.thompsonschoools.org/thompsonvalley>

**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 (1)(e). BOE Policy JQ

Thompson School District does not discriminate on the basis of race, color, creed, national origin, ancestry, sex, sexual orientation, age, disability, religion, or other status protected by law in admission or access to, or treatment and employment in, its programs and activities. The following individuals have been designated to handle inquiries regarding the District's nondiscrimination policies: Director of Student Support Services, Thompson R2-J School District, 800 South Taft Avenue, Loveland, CO 80537, 970-613-5000; Director of Human Resources, Thompson R2-J School District, 800 South Taft Avenue, Loveland, CO 80537, 970-613-5000.

## 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.

# ***Table of Contents***

High School Information .....	2
District Graduation Requirements Classes of 2021-2024 .....	6
Advanced Placement Program .....	7
Career and Academic Planning .....	8
Guidelines for College Admissions .....	9
Guidelines for College Admissions .....	10
Guidelines for College Admissions .....	11
Career & Technical Education (CTE) Pathways .....	12
Colorado Career Pathways Cluster Model .....	13
Career Pathway: Agricultural Science .....	14
Career Pathway: Architecture and Construction .....	15
Career Pathway: Arts and Visual Design .....	16
Career Pathway: Business .....	17
Career Pathway: Business Information Technology .....	18
Career Pathway: Computer and Information Sciences .....	19
Career Pathway: Education and Training .....	20
Career Pathway: Graphic Design .....	21
Career Pathway: Health Sciences .....	22
Career Pathway: Hospitality and Tourism .....	23
Career Pathway: Industrial Science and Technology .....	24
Career Pathway: Life Skills .....	25
Career Pathway: Marketing .....	26
Career Pathway: Project Lead the Way / Engineering .....	27
Career Pathway: Video Production .....	28
Agricultural Science .....	29
Art .....	31
Business .....	39
Computer and Information Sciences .....	47
Electives - Aides .....	52
Electives – English Language Arts .....	53
Electives – Industrial Science and Technology .....	56
Electives - JROTC .....	57
Electives – Physical Education .....	59
Electives – Social Studies .....	62
Electives – Student Leadership .....	64
English Language Arts .....	68
Family and Consumer Sciences .....	77

Health.....	83
Industrial Science and Technology .....	84
Marketing.....	91
Mathematics.....	96
Music.....	105
Physical Education .....	115
Science.....	117
Social Studies .....	125
Thompson School District – Seal of Biliteracy.....	131
State of Colorado – Seal of Biliteracy .....	132
World Languages.....	133
Advancement Via Individual Determination (AVID) at Thompson Valley High School.....	140
Advanced Placement Capstone Diploma Program.....	141
Concurrent Enrollment - High School Select Classes.....	143
E3: Explore, Engage, and Expand.....	144
International Baccalaureate Programme at Loveland High School.....	145
IB Middle Years Programme (MYP).....	147
IB Diploma Programme (DP).....	148
Loveland area Integrated School of the Arts (LISA) .....	149
LISA Courses.....	150
Project Lead the Way (PLTW) .....	152
Berthoud and Mountain View High Schools .....	152
Project Lead the Way (PLTW) Course Offerings.....	153
Science Technology Engineering Math (STEM).....	154
Thompson Online Program.....	157
Pathfinder Work-Based Learning Program.....	158
Pathfinder Internship .....	158
Pathfinder Apprenticeship.....	159
Thompson Career Campus – Advanced Manufacturing & Design .....	160
Computer-Aided Drafting, CNC Machining, Additive Manufacturing, Design & Maintenance ....	160
Thompson Career Campus - Construction Skilled Trades.....	161
HVAC, Plumbing and Electrical.....	161
Thompson Career Campus – Health Sciences .....	162
Certified Nursing Assistant, Medical Assistant, Phlebotomist.....	162
Thompson Career Campus – Information Technology.....	163
Software Development, Computer Hardware Technology, Cyber Security.....	163
Aims Community College - Career Academy Information.....	164
Graphic Design – Loveland Campus .....	164

Animation - Loveland Campus .....	165
Criminal Justice - Thompson Valley High School.....	166
Fire Science - Windsor Campus .....	167
Med Prep – Loveland Campus.....	168
<u>FRONT RANGE COMMUNITY COLLEGE - LARIMER CAMPUS .....</u>	<u>169</u>
HIGH SCHOOL SELECT PROGRAM, FALL 2020-SPRING 2021 .....	170
CAMPUS SELECT PROGRAM, FALL 2020-SPRING 2021 .....	171
CAREER PATHWAYS PROGRAM, FALL 2020-SPRING 2021 .....	172
CAREER PATHWAYS PROGRAM, FALL 2020-SPRING 2021 .....	173
ASCENT PROGRAM, FALL 2020-SPRING 2021 .....	174

## ***District Graduation Requirements Classes of 2021-2024***

Department	20 Credit General	24 Credit Diploma	28 Credit Distinction
English Language Arts	4.0	4.0	4.0
Mathematics	3.0	3.0	4.0
Science <i>(Two credits of science with a lab required)</i>	3.0	3.0	3.0
Social Studies <i>(Civics &amp; at least one credit of U.S. or World History)</i>	3.0	3.0	3.0
World Language	1.0	2.0	2.0
Fitness	0.5	0.5	0.5
Health	0.5	0.5	0.5
Applied Arts / CTE	0.5	0.5	0.5
Fine Arts	0.5	0.5	0.5
Career Pathway Elective	4.0	7.0	10.0
<b>Total Credit Requirement</b>	<b>20.0</b>	<b>24.0</b>	<b>28.0</b>
<b>Additional Requirements</b>	<a href="#">Thompson School District Graduation Policy</a>		
- Community Service Class of 2021 (10 hours) Class of 2022 (15 Hours) Class of 2023 & 2024 (20 hours)	Community Service Documentation Form located in the parent or student account under More > Quick Links		
<b>College and Career Ready Demonstrations</b>	<a href="#">Thompson School District Graduation Policy</a>		
- English Language Arts			
- Mathematics			

**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.

### **College and Career Readiness - Menu of Options for Successful Demonstration of Competency**

	<b>English Language Arts</b>	<b>Mathematics</b>
<b>ACT</b>	≥18	≥19
<b>ACT WorkKeys</b>	Bronze or Higher	Bronze or Higher
<b>ACCUPLACER</b>	62 on Reading Comprehension 70 on Sentence Skills	61 on Elementary Algebra
<b>AP</b>	≥2	≥2
<b>ASVAB</b>	≥31	≥31
<b>College Course</b>	C-	C-
<b>Industry Certificate</b>	Individualized	Individualized
<b>IB</b>	≥4	≥4
<b>Performance Assessment</b>	TBD	TBD
<b>SAT</b>	470	500

# ***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 – New Pre AP Courses Offering Beginning 2020-2021**

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)

# ***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
- College Concurrent Enrollment classes - at home high school or community college
- Research college/postsecondary options and visit campuses
- Begin application process for appointment to U.S. military academies
- Sign up for NCAA or NAIA Clearinghouses for college athletic participation
- Naviance ICAP activities: begin/complete college search, add colleges to My List, update Profile, update Plan of Study, update post high school career and academic goals, complete junior survey
- Attend Financial Aid evening or postsecondary informational meeting

### **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 Career Pathway Program classes at community colleges
- Naviance
- ICAP activities: explore scholarship applications/databases ([fastweb.com](http://fastweb.com), [College in Colorado](http://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/>)

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

## Guidelines for College Admissions

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

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

The data below reflect the middle 50% ranges of students admitted at each institution - 25% had above and 25% had below these ranges. These are NOT requirements, but a guide to each institution's standards.

Both ACT & SAT are accepted by Colorado public institutions. Please refer to the online College Admission Guidelines tool for more information on admission criteria: [coadmissionstool.org](http://coadmissionstool.org)

Institution	High School GPA	ACT	SAT*
	Mid-50% GPA range of admitted students (4.0 scale - includes weighted GPAs)	Mid-50% ACT range of admitted students (composite scores)	Taken March 2016 & After Mid-50% SAT range of admitted students (Evidence Based Reading & Writing + Math)
Adams State University	2.70 - 3.60	17 - 22	950 - 1120
Colorado Mesa University	3.15 - 3.83	20 - 25	1020 - 1200
Colorado School of Mines	3.71 - 3.98**	29 - 33	1330 - 1460
Colorado State University Fort Collins	3.33 - 4.00	23 - 29	1120 - 1300
Colorado State University Global	2.80 - 3.60	18 - 23	980 - 1160
Colorado State University Pueblo	2.91 - 3.76	18 - 23	950 - 1120
Fort Lewis College	3.08 - 3.81	20 - 25	1040 - 1190
Metropolitan State University of Denver	2.59 - 3.42	17 - 22	920 - 1110
University of Colorado Boulder	3.44 - 4.00	25 - 31	1180 - 1350
University of Colorado Colorado Springs	3.10 - 3.87	20 - 26	1070 - 1250
University of Colorado Denver	3.23 - 3.93	21 - 27	1070 - 1260
University of Northern Colorado	3.07 - 3.83	19 - 25	1030 - 1230
Western State Colorado University	2.95 - 3.75	20 - 25	1025 - 1200

\* SAT totals = Evidence 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: [higher.ed.colorado.gov/Academics/Admissions/](http://higher.ed.colorado.gov/Academics/Admissions/)

Starting fall 2019, the CCHE Index will no longer be utilized. Instead, institutions will publish their mid-50% admission range for GPA and test scores (ACT and SAT).

Go to the Online Admission Standards Tool for more information: [www.coadmissionstool.org](http://www.coadmissionstool.org)

# Guidelines for College Admissions

## Freshman admission standards apply to students who:

- \* are applying to go to college right after high school graduation; and/or
- \* have earned fewer than 24 college level credit hours after high school graduation.

Visit the online admission standards tool: [coadmissionstool.org](http://coadmissionstool.org)

## 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](http://KhanAcademy) 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:

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

*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.thompsonschoools.org/CTE>



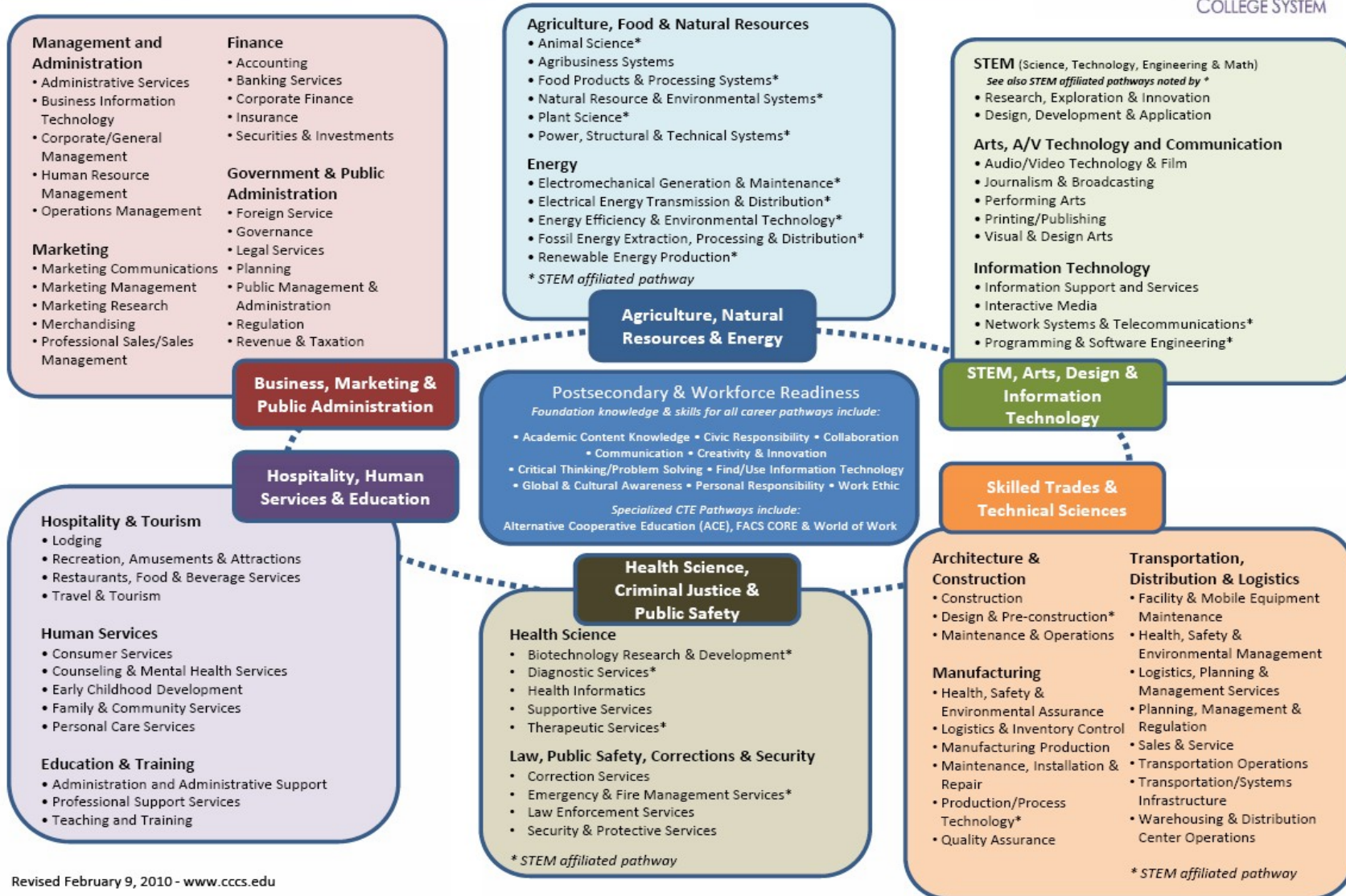
# Colorado Career Pathways Cluster Model

For more information visit: <http://www.coloradostateplan.com/>



COLORADO COMMUNITY  
COLLEGE SYSTEM

## Colorado Career Cluster Model



## Career Pathway: Agricultural Science

Colorado Career Cluster - Agriculture, Food and Natural Resources

### RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

#### **1<sup>st</sup> Year**

Introduction to Agriculture and Technology

5968, 5969

#### **2<sup>nd</sup> Year**

[Agriscience](#)

5980, 5981

[Mechanics](#)

8356, 8357

#### **3<sup>rd</sup> Year**

[Principles of Animal Science Advanced](#)

5978, 5979

[Principles of Plant Science Advanced](#)

5976, 5977

#### **\*3<sup>rd</sup> 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

#### **4<sup>th</sup> Year**

[Agriculture Capstone](#)

5982, 5983

[Pathway Internship – Agriculture, Food and Natural Resources](#)

5083

#### **4<sup>th</sup> Year [Career Pathway Program](#) – Scheduled Half Day at College eligible for both high school and college credit (see below)**

[FRCC Animal Technology and Research](#)

3.0 high school credits

#### **FRCC College Credit from Animal Technology Career Pathway:**

Office Procedures and Relations

Vet. Tech. Assistant Restraint and Handling

Veterinary Medical Terminology

Vet. Tech. Assistant Surgical and Nursing Care

Vet Tech. Assistant Lab and Clinical Procedures

Internship: Private Practice

#### **13 college credit hours**

VET 120 – 2 college credits

VET 103 – 2 college credits

VET 102 – 1 college credits

VET 113 – 3 college credits

VET 114 – college credits

VET 183 – 1.5 college credits

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

#### **4<sup>th</sup> Year [Career Pathway Program](#) – Scheduled Half Day at College eligible for both high school and college credit (see below)**

[FRCC Wildlife, Forestry and Natural Resources](#)

3.0 high school credits

#### **FRCC College Credit from Wildlife/Forestry Career Pathway:**

Foundations of Forestry

Forestry Field Research

Wildlife and Fisheries Management Principles

Internship

#### **13 college credit hours**

NRE 100 – 3 college credits

NRE 110 – 3 college credits

NRE 205 – 3 college credits

NRE 280 – 1 college credit

\*Students who successfully enroll in and successfully complete the above college coursework can complete the FRCC Forestry Certificate

## Career Pathway: Architecture and Construction

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

### RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

#### **1<sup>st</sup> Year**

[Invention and Design](#)  
[Construction 1\\*](#)

8300  
8310, 8311

#### **2<sup>nd</sup> Year**

[Construction 2\\*](#)  
[Geometry in Construction](#)  
[Technical Drawing](#)

8312  
2024, 2025 , 8314, 8315  
8302, 8303

#### **Postsecondary Credit Options Available through [High School Select](#):**

##### **AIMS Community College**

8310 / 8311 / 8312 - eligible for Carpentry credit

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

#### **3<sup>rd</sup> Year**

[Architectural Drawing](#)  
[Project Design Team](#)

8304, 8305  
8306, 8307

#### **4<sup>th</sup> Year**

[Pathway Internship – STEM, Arts, Design and Information Technology](#)

5085

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

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

3.0 high school credits

#### **FRCC College Credit from Career Pathway:**

Print reading for CAD  
Computer Aided Drafting  
Computer Aided Drafting 2  
Landscape Design I  
Sketchup  
Independent Study

#### **13 college credits**

CAD 100 – 3 college credits  
CAD 101 – 3 college credits  
CAD 102 – 3 college credits  
HLT 130 – 3 college credits  
CAD 115 – 3 college credits  
CAD 185 – 1 college credit

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

## Career Pathway: Arts and Visual Design

Colorado Career Cluster - Hospitality, Human Services and Education

### RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

#### **1<sup>st</sup> Year**

<a href="#">Design Seminar</a>	8142
<a href="#">Interior Design 1</a>	8008
<a href="#">Fashion Design / Merchandising 1</a>	8138

#### **2<sup>nd</sup> Year**

<a href="#">Interior Design 2*</a>	8009
<a href="#">Fashion Design / Merchandising 2</a>	8140

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

##### **FRCC College Credit:**

8009 – eligible for Intro to Interior Design	IND 105 – 3 college credits
--	-----------------------------

#### **3rd year**

#### **4th Year**

<a href="#">Executive Internship – STEM, Arts, design and Information Technology</a>	5085
--	------

## Career Pathway: Business

Colorado Career Cluster - Business, Marketing and Public Administration

### **RECOMMENDED HIGH SCHOOL COURSE SEQUENCE**

#### **1<sup>st</sup> Year**

<a href="#">Intro to Business and Marketing</a>	5018
<a href="#">Accounting</a>	5014, 5015
<a href="#">Business Law</a>	5019
<a href="#">Finance</a>	5020
<a href="#">Career Development</a>	5022

#### **2<sup>nd</sup> Year**

<a href="#">Accounting 2</a>	5016
<a href="#">Entrepreneurship 1</a>	5120, 5121

#### **3<sup>rd</sup> Year**

<a href="#">Accounting 3</a>	5017
<a href="#">Entrepreneurship 2</a>	5124, 5125
<a href="#">Management</a>	5021

#### **4<sup>th</sup> Year**

<a href="#">Business Work Experience</a>	5030, 5031, 5032, 5033, 5034, 5035
<a href="#">Pathway Internship – Business, Marketing and Public Administration</a>	5084

## **Career Pathway: Business Information Technology**

Colorado Career Cluster - Business, Marketing and Public Administration

### **RECOMMENDED HIGH SCHOOL COURSE SEQUENCE**

#### **1<sup>st</sup> Year**

Computer Applications	5002
<a href="#">Computer Graphics Business 1</a>	5004
<a href="#">Multi-Media Technology</a>	5006
<a href="#">Programming Concepts</a>	5026

#### **2<sup>nd</sup> Year**

<a href="#">Computer Applications Advanced</a>	5003
<a href="#">Computer Graphics Business 2</a>	5005
<a href="#">GIS in Business</a>	5122
<a href="#">Web Design</a>	5012
<a href="#">AP Computer Science Principles</a>	5080, 5081

#### **3<sup>rd</sup> Year**

AP Computer Science A	5028, 5029
<a href="#">Computer Graphics Business 3- Animation</a>	5076

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

<a href="#">AIMS Loveland Campus Graphic Design</a>	3.0 high school credits
---	-------------------------

#### **AIMS College Credit from Graphic Design Career Pathway:**

Adobe Photoshop I	<b>12 college credit hours</b>
Adobe Photoshop II	MGD 111 – 3 college credits
Adobe Illustrator I	MGD 211 – 3 college credits
Adobe Illustrator II	MGD 112 – 3 college credits
	MGD 212 – 3 college credits

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

#### **4<sup>th</sup> Year**

<a href="#">Computer Graphics Business 4 – Advanced Animation</a>	5078
<a href="#">Executive Internship – Business, Marketing and Public Information</a>	5084

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

<a href="#">AIMS Loveland Campus Animation Career Pathway</a>	3.0 high school credits
---	-------------------------

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

Digital Animatics	<b>12 college credit hours</b>
2D Animation Production	MGD 142 – 3 college credits
Maya I	MGD 152 – 3 college credits
Maya II	MGD 119 – 3 college credits
	MGD 219 – 3 college credits

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

#### **1<sup>st</sup> Year**

[Intro to Electronics and Programming](#)

5256, 5257

[Programming Concepts](#)

5026

[Intro to Robotics](#)

8420, 8421

#### **2<sup>nd</sup> Year**

[Advanced Electronics and Programming](#)

8708, 8709

[Robotics Leadership](#)

8422, 8423

[AP Computer Science Principles](#)

5080, 5081

#### **3rd Year**

AP Computer Science A

5028, 5029

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

[AIMS Loveland Campus Graphic Design](#)

3.0 high school credits

#### **[AIMS College Credit from Graphic Design Career Pathway:](#)**

Adobe Photoshop I

#### **12 college credit hours**

MGD 111 – 3 college credits

Adobe Photoshop II

MGD 211 – 3 college credits

Adobe Illustrator I

MGD 112 – 3 college credits

Adobe Illustrator II

MGD 212 – 3 college credits

Graphic and Software Applications Certification upon completion of program.

Certification counts towards the Graphic Design Associate Degree at AIMS.

#### **4<sup>th</sup> Year**

[Pathway Internship – STEM, Arts, Design and Information Technology](#)

5085

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

[AIMS Loveland Campus Animation](#)

3.0 high school credits

#### **[AIMS College Credit from Animation Career Pathway:](#)**

Digital Animatics

#### **12 college credit hours**

MGD 142 – 3 college credits

2D Animation Production

MGD 152 – 3 college credits

Maya I

MGD 119 – 3 college credits

Maya II

MGD 219 – 3 college credits

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

CNG 124

CNG 120

CNG 132

## Career Pathway: Education and Training

Colorado Career Cluster - Hospitality, Human Services and Education

### RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

#### **1<sup>st</sup> Year**

[Child and Adolescent Development](#)

8125

#### **2<sup>nd</sup> Year**

[Early Childhood Education 101](#)

8012

[Early Childhood Education 102](#)

8013

#### **3<sup>rd</sup> Year**

[Teacher Cadet 1](#)

8014, 8015

#### **4<sup>th</sup> Year**

[Teacher Cadet 2](#)

8016, 8017

Pathway Internship – Hospitality, Human Services and Education

5086

## Career Pathway: Graphic Design

Colorado Career Cluster – Arts, A/V Technology and Communication

### RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

#### **1<sup>st</sup> Year**

<a href="#">Computer Graphics Art 1</a>	6608
<a href="#">Drawing 1</a>	6600
<a href="#">Photography 1</a>	6622

#### **2<sup>nd</sup> Year**

<a href="#">Painting 1</a>	6604
<a href="#">Computer Graphics Arts 2</a>	6610
<a href="#">Drawing 2</a>	6602
<a href="#">Photography 2</a>	6624

#### **3<sup>rd</sup> Year**

<a href="#">Painting 2</a>	6606
<a href="#">Photography 3</a>	6626
<a href="#">AP Studio Art Drawing</a>	6640, 6641

#### **4<sup>th</sup> Year**

<a href="#">AP Studio Art 2D Design</a>	6642, 6643
<a href="#">AP Studio Art 3D Design</a>	6644, 6645
<a href="#">Pathway Internship – Arts, A/V Technology and Communication</a>	TBD

## Career Pathway: Health Sciences

Colorado Career Cluster - Hospitality, Human Services and Education

### RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

#### **1<sup>st</sup> Year**

[Introduction to Health Sciences](#)

5802, 5803

#### **2<sup>nd</sup> Year**

#### **3rd Year**

**3rd or 4th Year Pathway Program – Pathway Programs scheduled half day at college, eligible for both high school and college credit**

AIMS Medical Prep

3.0 college credits

#### AIMS College Credit Available for Certificate:

Success Seminary

Medical Terminology

Responding to Emergencies

Nurse Aide Health Care Skills

Nurse Aide Clinical Rotation

Health Career Options & Readiness

#### **13 college credits**

HPR 111 – 1 college credit

HPR 178 – 3 college credits

HWE 122 – 2 college credits

NUA 101 – 4 college credits

NUA 170 – 1 college credits

HPR 104 – 1 college credit

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

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

[FRCC Medical Careers Explorations](#)

3.0 high school credits

#### FRCC College Credit from Career Pathway:

Medical Record Terminology (Fall)

Certified Nurse Aide Health Care Skills (Fall)

Nurse Aide Clinical Experience

#### **7 college credits**

HPR 208 – 2 college credits

NUA 101 – 4 college credits

NUA 170 – 1 college credit

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

#### **4th Year**

[Pathway Internship – Hospitality, Human Services and Education](#)

5086

## Career Pathway: Hospitality and Tourism

Colorado Career Cluster - Hospitality, Human Services and Education

### **RECOMMENDED HIGH SCHOOL COURSE SEQUENCE**

#### **1<sup>st</sup> Year**

[Culinary Careers and Nutrition](#)

8018

#### **2<sup>nd</sup> Year**

[Catering](#)

8006, 8007

#### **3<sup>rd</sup> Year**

[ProStart 1](#)

8134, 8135

[Catering Advanced](#)

8026, 8027

#### **4<sup>th</sup> Year**

[ProStart 2](#)

8136, 8137

Pathway Internship – Hospitality, Human Services and Education

5086

### **\*Postsecondary Credit Options Available through [High School Select](#):**

#### **[Metro State Enrollment College Credit](#):**

8134 / 8135 – eligible for Food Fundamentals

HTE 1533 – 3 college credits

8136 / 1837 – eligible for Food Preparation and Sanitation

HTE 1603 – 3 college credits

## Career Pathway: Industrial Science and Technology

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

### RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

#### **1<sup>st</sup> Year**

<a href="#">AMPED – Algebra 1 in Manufacturing Processes, Entrepreneurship and Design</a>	8424, 8425
<a href="#">Basic Shielded Metal Arc 1</a>	5590
<a href="#">Intro to Gas Metal Arc Welding*</a>	5683
<a href="#">Invention and Design</a>	8300
<a href="#">Manufacturing 1</a>	8330
<a href="#">Intro to Robotics</a>	8420, 8421
<a href="#">Safety for Welders*</a>	5743
<a href="#">Transportation 1</a>	8320

#### **\*Postsecondary Credit Options Available through [High School Select](#):**

##### **Front Range Community College**

5683 – eligible for Basic Shielded Metal Arc I	WEL 103 – 4 college credits
5743 – eligible for Safety for Welders	WEL 100 – 1 college credit

#### **2<sup>nd</sup> Year**

<a href="#">Transportation 2</a>	8322, 8323
<a href="#">Manufacturing 2</a>	8332, 8333
<a href="#">Robotics Leadership</a>	8422, 8423

#### **3<sup>rd</sup> Year**

**3rd Year [Career Pathway Program](#) – Career Pathway Program scheduled half Day at college eligible. Pathway is eligible for both high school and college credit (see below)**  
[FRCC Welding and Metal Fabrication](#) 3.0 high school credits

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

Safety for Welders	<b>13 college credits</b> 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

#### **4th Year**

<a href="#">Pathway Internship – STEM, Arts, design and Information Technology</a>	5085
--	------

**4th Year [Career Pathway Program](#) – Career Pathway Program scheduled half Day at college eligible. Pathway is eligible for both high school and college credit (see below)**  
FRCC 2nd Year Welding and Metal Fabrication 3.0 high school credits

##### **FRCC College Credit from Career Pathway:**

Intro to Gas Tungsten Arc Welding	<b>13 college credits</b> WEL 124 – 4 college credits
Advanced Gas Tungsten Arc Welding	WEL 224 – 4 college credits

\*Students who successfully enroll in and successfully complete the above college coursework (including Year 1 coursework) can complete the FRCC Gas Tungsten Arc Welding (TIG) Certificate

## Career Pathway: Life Skills

Colorado Career Cluster - Hospitality, Human Services and Education

### RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

#### **1<sup>st</sup> Year**

[Teen Challenges and Choices](#)

8000

[Nutrition and Wellness](#)

8020

#### **2<sup>nd</sup> Year**

[Life Management](#)

8001

#### **3<sup>rd</sup> Year**

[Relationships](#)

8002

#### **4<sup>th</sup> Year**

Pathway Internship – Hospitality, Human Services and Education

5086

## Career Pathway: Marketing

Colorado Career Cluster - Business, Marketing and Public Administration

### **RECOMMENDED HIGH SCHOOL COURSE SEQUENCE**

#### **1<sup>st</sup> Year**

<a href="#">Intro to Business and Marketing</a>	5018
<a href="#">Sports and Entertainment Marketing</a>	5040
<a href="#">Web Design</a>	5012

#### **2<sup>nd</sup> Year**

<a href="#">Entrepreneurship 1</a>	5120, 5121
<a href="#">Marketing Research</a>	5041
<a href="#">Social Media and Advertising</a>	5042

#### **3<sup>rd</sup> Year**

<a href="#">Accounting 3</a>	5017
<a href="#">Entrepreneurship 2</a>	5124, 5125
<a href="#">IB Business and Management</a>	5320, 5321

#### **4<sup>th</sup> Year**

<a href="#">Marketing Work Experience</a>	5050, 5051, 5052, 5053, 5054, 5055
<a href="#">Pathway Internship – Business, Marketing and Public Administration</a>	5084

## Career Pathway: Project Lead the Way / Engineering

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

### **HIGH SCHOOL RECOMMENDED COURSE SEQUENCE**

#### **1st Year**

[Introduction to Engineering Design\\*](#)

8400, 8401

[Principles of Engineering\\*](#)

8402, 8403

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

[University of Colorado at Colorado Springs](#)

8400 / 8401 – eligible for Introduction to Engineering Design

ENGR 1503 – 2 college credits

8402 / 8403 – eligible for Principles of Engineering

ENGR 1502 – 3 college credits

#### **2nd Year**

[Computer Integrated Manufacturing](#)

8406, 8407

#### **3rd Year**

[Aerospace Engineering](#)

8410, 8411

[Engineering Design and Development](#)

8414, 8515

#### **4th Year**

[Environmental Sustainability](#)

3080, 3081

[Pathway Internship – STEM, Arts, Design and Information Technology](#)

5085

## Career Pathway: Video Production

Colorado Career Cluster – Arts, A/V Technology and Communication

### HIGH SCHOOL RECOMMENDED COURSE SEQUENCE

#### **1st Year**

Video Production 1	6634
--------------------	------

#### **2nd Year**

Video Production 2	6636, 6637
Video Communication 1	6628, 6629

#### **3rd Year**

Video Communication 2	6632, 6633
-----------------------	------------

#### **4th Year**

Pathway Internship – Arts, A/V Technology and Communication	TBD
---	-----

# 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

5982, 5983

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

## AGRISCIENCE

5980, 5981

BHS, TVHS

Credit: .50 Career Pathway Elective – Semester 1

Credit: .50 Science - Semester 2 - (meets 3rd year requirement)

Recommended: Intro to Agricultural Science and Technology

Fee: \$25 per semester

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

*In Agriscience, students will:*

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

## PATHWAY 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 appropriate to the area of professional interest, development of decision-making skills, and development of personal and educational job-related skills

# Agricultural Science

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

## INTRODUCTION TO AGRICULTURE AND TECHNOLOGY

5968, 5969

BHS, TVHS

Credit: 1.0 Applied Arts / CTE

Fee: \$25 per semester

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

*In Introduction to Agricultural Science and Technology students will:*

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

## PRINCIPLES OF ANIMAL SCIENCE ADVANCED

5978, 5979

BHS, TVHS

Credit: .50 Career Pathway Elective – Semester 1

Credit: .50 Science - Semester 2 (meets 3rd year science requirement)

Fee: \$25 per semester

Recommended: Intro to Agricultural Science and Technology

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

*In Principles of Animal Science Advanced students will:*

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

## PRINCIPLES OF PLANT SCIENCE ADVANCED

5976, 5977

BHS, TVHS

Credit: .50 Career Pathway Elective – Semester 1

Credit: .50 Science - Semester 2 (meets 3rd year science requirement)

Fee: \$25 per semester

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

*In Principles of Plant Science Advanced students will:*

- explore the agronomy and horticulture industries
- gain in-depth information about our student-led leadership organization, FFA
- gain in-depth knowledge of crop production, including the topic areas of greenhouse management; irrigation; soil fertility; integrated pest management; plant propagation techniques; the harvest, handling and storage of crops; plant, seed and pest identification; biotechnology
- apply principles and practices of sustainable agriculture
- develop leadership and employability skills for future careers and endeavors
- have the chance to participate in educational field trips and experiences pertaining to agriculture and FFA on a district, state, and national level

# Art

<b>AP DRAWING</b>	6640, 6641
<b>AP 2-D ART AND DESIGN</b>	6642, 6643
<b>AP 3-D ART AND DESIGN</b>	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 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

<b>ART EXPLORATION</b>	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

<b>AP ART HISTORY</b>	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

<b>COMMERICAL ART</b>	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

# Art

## COMPUTER GRAPHICS – ART 1

6608

LHS, MVHS, TVHS

BHS (Grades 10, 11, 12)

Credit: .50 Fine Arts

Fee: \$15 per semester

Pathway: [Graphic Design](#) – Arts, A/V Technology and Communication

FHS

6608

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

6610

LHS, MVHS, TVHS

Credit: .50 Fine Arts

Recommended: Computer Graphics - Art 1

Fee: \$15 per semester

Pathway: [Graphic Design](#) – Arts, A/V Technology and Communication

*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

# Art

## DRAWING 1

6600

BHS, LHS, MVHS, TVHS

Credit: .50 Fine Arts

Fee: \$20 per semester

Pathway: [Graphic Design](#) – Arts, A/V Technology and Communication

## FHS

6600

Credit: .25 Fine Arts

Fee: \$10.00 per quarter

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

6602

LHS, MVHS

BHS (Grades 10, 11, 12)

Credit: .50 Fine Arts

Recommended: Drawing 1

Fee: \$20 per semester

Pathway: [Graphic Design](#) – Arts, A/V Technology and Communication

*In Drawing 2, students will:*

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

## IB DP VISUAL ARTS (SL)

6830, 6831

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 for those who are seeking lifelong enrichment through visual arts.

## Art

### METALSMITHING/JEWELRY 1

6618

MVHS, TVHS

BHS, LHS (Grades 10, 11, 12)

Credit: .50 Fine Arts

Fee: \$30 per semester

FHS

6618

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' art work
- apply appropriate problem-solving abilities to body ornamentation

### METALSMITHING/JEWELRY 2

6620

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' art work
- apply appropriate problem-solving abilities to body ornamentation

### PAINTING 1

6604

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

6604

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' art work
- be exposed to art history as it relates to painting

# Art

## PAINTING 2

6606

LHS, MVHS

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' art work

## 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' art work
- continued exploration of digital photography (DSLR) and digital photographic editing

# Art

## 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

## SCULPTURE/CERAMICS 1

6614

LHS, MVHS, TVHS

BHS (Grades 10, 11, 12)

Credit: .50 Fine Arts

Fee: \$20 per semester

FHS

6614

Credit: .25 Fine Arts per quarter

Fee: \$10 per quarter

*In Sculpture/Ceramics 1, students will:*

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

## SCULPTURE/CERAMICS 2

6616

LHS, MVHS, TVHS

BHS (Grades 10, 11, 12)

Credit: .50 Fine Arts

Fee: \$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 THEATRE

6672, 6673

TVHS

Credit: 1.0 Fine Arts

*In Pre AP Theatre students will:*

# Art

## VIDEO COMMUNICATION 1

6628, 6629

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

6632, 6633

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

6634

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

6634

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

# Art

## VIDEO PRODUCTION 2

TVHS

6636, 6637

Credit: 1.0 Fine Arts

Fee: \$30 per semester

Recommended: Video Production 1

Pathway: [Video Production](#) – Arts, A/V Technology and Communication

LHS, MVHS

6636

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, and edit 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

6652, 6653

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:*

- create, plan, write, record, and edit 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

## PRE-AP VISUAL ARTS

6670, 6671

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

5014, 5015

BHS, LHS, MVHS, TVHS

Credit: 1.0 Applied Arts / CTE

Fee: \$5 per semester

Pathway: [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

5016

LHS, MVHS, TVHS

Credit: .50 Applied Arts / CTE

Fee: \$5 per semester

Recommended: Accounting 1

Pathway: [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 assets and intangible asset accounting, and depreciation methods and practices

### ACCOUNTING 3

5017

MVHS, TVHS

Credit: .50 Applied Arts / CTE

Fee: \$5 per semester

Recommended: Accounting 2

Pathway: [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

5019

BHS, LHS, MVHS, TVHS

Credit: .50 Applied Arts / CTE

Fee: \$5 per semester

Pathway: [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

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

## 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

5022

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

5002

BHS, LHS, MVHS, TVHS

Credit: .50 Applied Arts / CTE

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

5003

BHS, LHS, MVHS, TVHS

Credit: .50 Applied Arts / CTE

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

# Business

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

## 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

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

## 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:*

- 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.

# Business

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

## ENTREPRENEURSHIP 1

5120, 5121

BHS, LHS, MVHS, TVHS

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

5120, 5121

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

5124, 5125

BHS, LHS, MVHS, TVHS

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

*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

5320, 5321

Credits: 1.0 Applied Arts / CTE

Pathway: [Business and Marketing](#) - Business, Marketing and Public Administration

\*This class may be scheduled to meet outside of the normal school day

*In IB DP Business and Management, students will:*

- explore the ethics and phases of the business process
- explore internet use and applications in business
- choose to focus on web based projects
- choose to focus on management skills

# Business

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

## FINANCE

5020

BHS, LHS, MVHS, TVHS

Credit: .50 Applied Arts / CTE

Fee: \$5 per semester

Pathway: [Business](#) - Business, Marketing and Public Administration

*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

BHS

Credit: .50 Applied Arts / CTE

Fee: \$5 per semester

Pathway: [Business Information Technology](#) - Business, Marketing and Public Administration

*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

BHS, FHS, LHS, MVHS, TVHS

Credit: .50 Applied Arts / CTE

Fee: \$5 per semester

Pathway: [Business](#) - Business, Marketing and Public Administration

Pathway: [Marketing](#) - Business, Marketing and Public Administration

*In Introduction to Business and Marketing, students will:*

- focus on the operation of the American Business System
- develop a basic understanding of the fundamentals of the economy, threats and opportunities, marketing management, production, governmental regulations, tools of business, and social responsibilities.

## MANAGEMENT

5021

FHS, MVHS, TVHS

BHS, LHS (Grades 11, 12)

Credit: .50 Applied Arts / CTE

Fee: \$5 per semester

Pathway: [Business](#) - Business, Marketing and Public Administration

*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

# Business

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

## PATHWAY 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 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

## 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.

## ***Business***

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

### **WEB DESIGN**

5012

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

# 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

## 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:*

- 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

5080, 5081

BHS, LHS, 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

Pathway: [Business Information Technology](#) - Business, Marketing and Public Administration

Pathway: [Computer and Information Sciences](#) - STEM, Arts, Design and Information Technology

*In AP Computer Science Principles, students will:*

- be introduced to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world
- 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

8708, 8709

LHS, MVHS (Grades 10, 11, 12)

Credit: 1.0 Applied Arts / CTE

Fee: \$20 per semester

Recommended: Introduction to Electronics and Programming or Teacher Recommendation

Pathway: [Computer and Information Sciences](#) - STEM, Arts, Design and Information Technology

*In Advanced Electronics and Programming, students will:*

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

# Computer and Information Sciences

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

## 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

## INTRODUCTION TO ELECTRONICS AND PROGRAMMING

5256, 5257

LHS, MVHS

Credit: 1.0 Applied Arts / CTE

Fee: \$20 per semester

Pathway: [Computer and Information Sciences](#) - STEM, Arts, Design and Information Technology

*In Introduction to Electronics and Programming, students will:*

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

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

5085

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.

# Computer and Information Sciences

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

## ROBOTICS

LHS

8420, 8421

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 skills to help support the overall team
- work with the other sub teams to build and design advanced mechanisms for the robot
- employ the engineering design cycle through inquiry and iteration
- engage in teamwork and collaboration
- participate in the FIRST Robotics competition in the spring
- participate in the fundraising and promotion of team during outside school hours
- learn about advanced topics in robotics and stem fields via guest speakers and field trips

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

## ***Computer and Information Sciences***

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

### **ROBOTICS LEADERSHIP**

8422, 8423

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***

### **AIDE – ATTENDANCE**

8644, 8645

BHS, LHS, MVHS, TVHS

Credit: .25 Career Pathway Elective per semester

### **AIDE – BUILDING**

8640, 8641

BHS, LHS, MVHS, TVHS

Credit: .25 Career Pathway Elective per semester

### **AIDE – GUIDANCE**

8636, 8637

BHS, LHS, MVHS, TVHS

Credit: .25 Career Pathway Elective per semester

Recommended: Recommendation and approval from a counselor and interview

*As an Aide - Guidance, students will:*

- run passes and assist office staff
- file
- help maintain materials in the Futures/Career Center

### **AIDE - MEDIA**

8638, 8639

BHS, LHS, MVHS, TVHS

Credit: .25 Career Pathway Elective per semester

Recommended: Teacher Librarian approval

*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

### **AIDE – OFFICE**

8642, 8643

BHS, LHS, MVHS, TVHS

Credit: .25 Career Pathway Elective per semester

### **AIDE – TEACHER**

8648, 8649

BHS, LHS, MVHS, TVHS

Credit: .25 Career Pathway Elective per semester

## ***Electives – English Language Arts***

### **ACTING TECHNIQUES**

1124

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**

1125

MVHS

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**

1122

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

### **BIBLE LITERATURE**

1107

MVHS, TVHS

Credit: .50 Career Pathway Elective

*In Bible Literature, students will:*

- analyze the literature of the Bible
- demonstrate a knowledge of the many genres of biblical literature (poetry, history, epistles, apocalyptic literature, wisdom)

### **COLLEGE READING AND THINKING**

1109

MVHS, TVHS

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**

1105

MVHS, TVHS

BHS (Grades 11, 12)

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**

1116

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**

1118, 1119

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**

1110

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**

1120

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

## ***Electives – English Language Arts***

### **THEATRE PRODUCTION**

8612

MVHS, TVHS

Credit: .50 Career Pathway Elective

*In Theatre Production, students will:*

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

### **WOMEN AND THEIR LITERATURE**

1112

TVHS

Credit: .50 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**

1144, 1145

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**

8608, 8609

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***

---

### **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

### **INTRODUCTION TO ARC GLOBAL INFORMATION SYSTEM**

4104, 4105

BHS

Credit: 1.0 Career Pathway Elective

Recommended: Must be in 10<sup>th</sup> grade STEM

*In Introduction to ARC Global Information System, students will:*

- develop spatial understanding, perspectives, and personal connections to the world
- examine places and regions and patterns among them
- complete individual and group projects using GIS software
- introduce students to basic coding

## ***Electives - JROTC***

The JROTC program is offered at Loveland High School. Transportation may be available to students who attend another high school and wish to participate in this program.

### **JROTC - LEVEL 1**

8618, 8619

LHS

Credit: .50 Fitness / Career Pathway Elective - Semester 1

Credit: .50 Social Studies (meets 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, Weapons safety and basic marksmanship skills, goal setting, drug abuse prevention, basic nutrition, citizenship through history, drill and ceremonies, community service and US Civics topics.

### **JROTC - LEVEL 2**

8620, 8621

LHS

Credit: 1.0 Career Pathway Elective

Recommended: JROTC - Level 1

Fee: \$25 per semester

*In JROTC 2, students will:*

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

### **JROTC - LEVEL 3**

8624, 8625

LHS

Credit: 1.0 Career Pathway Elective

Fee: \$25 per semester

Recommended: JROTC - Level 2

*In JROTC 3, students will:*

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

### **JROTC – LEVEL 4**

8626, 8627

LHS

Credit: 1.0 Career Pathway Elective

Fee: \$25 per semester

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, learning to instruct classes, NEFE school financial planning

## Electives - JROTC

### JROTC – MARKSMANSHIP

8651

LHS

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 coordinator must be developed through practice. The JROTC Rifle Marksmanship program offers cadets the opportunity to compete in city, state, nation and international marksmanship competitions. The JROTC Marksmanship Program trains cadets to shoot the 3-position air rifle protocols system developed from the International Shooting Sports Federation (ISSF) and Olympic rifle events (air rifle standing, 3-position small-bore). Students are required to compete in shoulder-to-shoulder and postal rifle matches; maintain a JROTC portfolio; keep a shooters bible (log); and participate in a research project per semester on safety/marksmanship and give an oral presentation on their project. Army, Navy and Marine Corps JROTC units in accordance with service relations offer rifle marksmanship. All rifle marksmanship activity in Army JROTC units is done with 4.5 mm (.177 caliber) single shot target air rifles. All range firing activities are conducted on 10 meters (33 feet) long indoor or outdoor ranges. Cadets who participate in rifle marksmanship are trained to fire in three standard firing positions. Cadets who participate in competitions usually compete in "three-position air rifle" competitions. Opportunities for advanced marksmanship camps and trainings are available for cadets interested in enhancing their skills.

## ***Electives – Physical Education***

### **AQUATICS**

7603

LHS, MVHS, TVHS

Credit: .50 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***

### **FIRST AID**

7605

LHS, MVHS, TVHS

Credit: .50 Career Pathway Elective

Fee: Set by Red Cross – approximately \$35

Recommended: 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

Credit: .50 Career Pathway Elective

*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

Credit: .50 Career Pathway Elective

Fee: Set by Red Cross - approximately \$65

Recommended: 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

Credit: .50 Career Pathway Elective

Fee: \$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**

7612

BHS, LHS, MVHS, TVHS

Credit: .50 Career Pathway Elective

*In Net Sports, students will:*

- be proficiently skilled in net games; tennis, volleyball, badminton, pickle ball, 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**

7602

TVHS, LHS

LHS Females Only (Grades 10, 11, 12)

Credit: .50 Career Pathway Elective

*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**

7610

BHS, LHS, MVHS, TVHS

Credit: .50 Career Pathway Elective

*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**

- Men's Weight Training 1

7606

- Women's Weight Training 1

7608

LHS, MVHS

Credit: .50 Career Pathway Elective

*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**

- Men's Weight Training 2

7607

- Women's Weight Training 2

7609

BHS, MVHS, TVHS

LHS (Grades 10, 11, 12)

Credit: .50 Career Pathway Elective

Recommended: Weight Training 1

*In Weight Training 2, students will:*

- learn lifetime fitness concepts including the principles of Overload, Progression, and Specificity

## ***Electives – Social Studies***

### **CONTEMPORARY ISSUES**

4100

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**

4108

BHS

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**

4080

BHS, MVHS, TVHS  
LHS (Grades 10, 11, 12)  
Credit: .50 Career Pathway Elective

*In Psychology 1, students will:*

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

### **AP PSYCHOLOGY**

4082, 4083

BHS, LHS, MVHS, TVHS  
Credit: 1.0 Career Pathway Elective  
Fee: Student pays for textbook and AP Exam

*In AP Psychology, students will:*

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

### **PSYCHOLOGY 2**

4081

MVHS, TVHS  
Credit: .50 Career Pathway Elective  
Recommended: Psychology 1

*In Psychology 2, students will:*

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

### **SOCIOLOGY**

4084

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

*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**

4102

BHS  
Credit: .50 Career Pathway Elective  
Fee: Student pays for textbook  
Recommended: Junior or Senior  
Dual college credit may be available – see your school counselor for more information

*In Western Civilization 1, students will:*

- study the development of European history from its beginnings to 1500 CE
- analyze historical events and processes from this era
- discuss different historical interpretations of events
- create and research historical questions about early European history

## Electives – Student Leadership

### AVID (Advancement via Individual Determination)

8712, 8713

TVHS

Credit: 1.0 Career Pathway Elective

Application Process required visit <https://www.thompsonschoools.org/Page/17233>

In *AVID*, students will:

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

### 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

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

## ***Electives – Student Leadership***

### **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

## ***Electives – Student Leadership***

### **SERVICE LEARNING**

5090

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 EDUCATION**

8814

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**

8614, 8615

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

### **STUDENT LEADERSHIP**

8700, 8701

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

## ***Electives – Student Leadership***

---

### **TEEN COURT**

8698, 8699

Municipal Courthouse – 810 E 10th Street in Loveland

Credit: 20 hours of Community Service – total hours for the year

or

Credit: .25 Career Pathway Elective – total credit for the year

Sessions are held on Tuesday's at 3:30 at the Municipal Courthouse 810 E. 10th Street Loveland, CO 80537.

Students must provide their own transportation to and from each session. For more information visit our website at <https://lovelandteencourt.wixsite.com/lovelandteencourt>

*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.

# English Language Arts

## COLLEGE COMPOSITION 1

1103

BHS, LHS, MVHS

TVHS (Grade 12)

Credit: .50 Language Arts

Recommended: English 11

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

*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

## COLLEGE COMPOSITION 2

1104

BHS, MVHS

TVHS (Grade 12)

Credit: .50 Language Arts

Recommended: College Composition 1

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

*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

## ELA LANGUAGE A: CREATIVE WRITING

1622

LHS (Grades 9, 10)

Credit: .50 Language Arts

*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.

## ELA LANGUAGE A: THE GRAPHIC NOVEL

1616

LHS (Grades 9, 10)

Credit: .50 Language Arts

*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.

## ELA LANGUAGE A: HONORS

1620

LHS (Grades 9, 10)

Credit: .50 Language Arts

*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.

## ELA LANGUAGE A: THE LANGUAGE OF JOURNALISM

1624

LHS (Grade 9, 10)

Credit: .50 Language Arts

*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.

## English Language Arts

### ELA LANGUAGE A: THEATRE SCREEN AND SCRIPT STUDY

1618

LHS (Grades 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

1602

LHS (Grades 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

1610

LHS (Grades 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

1604

LHS (Grades 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

1606

LHS (Grades 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

1608

LHS (Grades 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

1614

LHS (Grades 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.

## English Language Arts

### ELA SL A: THEATRE

1612

LHS (Grades 9, 10)

Credit: .50 Language Arts

*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.

### ELA RW B: CREATIVE WRITING

1702

LHS (Grades 9, 10)

Credit: .50 Language Arts

*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.

### ELA RW B: HONORS

1710

LHS (Grades 9, 10)

Credit: .50 Language Arts

*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.

### ELA RW B: JOURNALISM

1706

LHS (Grades 9, 10)

Credit: .50 Language Arts

*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.

### ELA RW B: LITERACY

1708

LHS (Grades 9, 10)

Credit: .50 Language Arts

*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.

### ELA RW B: SCIENCE FICTION AND FANTASY

1704

LHS (Grades 9, 10)

Credit: .50 Language Arts

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

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

# English Language Arts

## ELA RW C: CREATIVE WRITING

1800

LHS (Grades 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

1804

LHS (Grades 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

1806

LHS (Grades 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

1808

LHS (Grades 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

1912

LHS (Grades 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

1914

LHS (Grades 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

## ELA LANGUAGE D: THE LANGUAGE OF JOURNALISM

1916

LHS (Grades 11, 12)

Credit: .50 Language Arts

*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.

## ELA LANGUAGE D: THEATRE SCREEN/SCRIPT STUDY

1918

LHS (Grades 11, 12)

Credit: .50 Language Arts

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

## ELA RW D: CREATIVE WRITING

1902

LHS (Grades 11, 12)

Credit: .50 Language Arts

*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.

## ELA RW D: JOURNALISM

1922

LHS (Grades 11, 12)

Credit: .50 Language Arts

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

## ELA RW D: LITERACY

1924

LHS (Grades 11, 12)

Credit: .50 Language Arts

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

## ELA RW D: MYTHOLOGY AND SCIENCE FICTION

1904

LHS (Grades 11, 12)

Credit: .50 Language Arts

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

## ELA SL D: 21st CENTURY SPEAKING SKILLS

1908

LHS (Grades 11, 12)

Credit: .50 Language Arts

*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.

## ELA SL D: ARGUMENTATION AND DEBATE

1926

LHS (Grades 11, 12)

Credit: .50 Language Arts

*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.

# English Language Arts

## ELA SL D: COLLEGE PUBLIC SPEAKING

1906

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 21<sup>st</sup> century citizen.

## ELA SL D: THEATRE

1910

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

1000, 1001

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

1004, 1005

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 9

2006, 1007

TVHS

Credit: 1.0 Language Arts

*In Pre AP English 9, 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

1020, 1021

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
- read, respond and apply thinking skills to novels, short stories, nonfiction, poetry, and multimedia texts, including how multiple texts comment on a similar concept
- learn conceptual strategies for approaching a variety of texts
- write short and extended responses in argumentation, literary analysis, informational, and narrative forms

# English Language Arts

## ENGLISH 10 PRE AP

1024, 1025

BHS, MVHS, TVHS  
Credit: 1.0 Language Arts

In English 10 Pre AP, students will:

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

## ENGLISH 11

1040, 1041

BHS, FHS, MVHS, TVHS  
LHS (Grades 12)  
Credit: 1.0 Language Arts

In English 11, students will:

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

## ENGLISH 11 AND MODERN AMERICA INTEGRATED

- English 11 Integrated	1044, 1045
- Modern America Integrated	4044, 4045

TVHS

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

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

- read, respond, and apply thinking skills to novels, short stories, nonfiction, poetry, and multimedia as they relate to authors' purposes complementing American history, geography, and diverse culture
- exceed the eleventh grade English requirements

## ENGLISH 12

1060

FHS, MVHS, TVHS  
LHS (Grade 12)  
Credit: .50 Language Arts

In English 12, students will:

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

## AP ENGLISH LANGUAGE AND COMPOSITION

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

# English Language Arts

## 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

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

Credits: .50 Language Arts

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.

# English Language Arts

## INTRODUCTION TO LITERATURE

1140

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

1520, 1521

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

1121

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

# Family and Consumer Sciences

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

## CATERING

8006, 8007

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

8026, 8027

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, compete 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

8125

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

8018

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?*

This introductory course explores careers within the culinary industry beginning with a foundation in nutrition and developing skills in safe and sanitary food handling, working with tools and equipment, and planning and preparing foods that are healthy choices for people across the lifespan.

# Family and Consumer Sciences

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

## DESIGN SEMINAR

8142

LHS, MVHS

Credit: .50 Applied Arts / 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

8012

LHS, TVHS

Credit: .50 Applied Arts / CTE

Recommended: Child and Adolescent Development

Fee: \$10 per semester

Pathway: [Education and Training](#) - Hospitality, Human Services and Education

*In Early Childhood Education 101, students will:*

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

## EARLY CHILDHOOD EDUCATION 102

8013

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

8011

LHS, BHS

Credit: .50 Applied Arts / CTE

Fee: \$10

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

# Family and Consumer Sciences

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

## ELEMENTARY TUTOR

8628, 8629

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

8138

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

8140

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

8008

BHS, 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

8009

BHS, MVHS, TVHS (Grades 10, 11, 12)

Credit: .50 Applied Arts / CTE

Recommended: Interior Design 1

Fee: \$20 per semester

Pathway: [Arts and Visual Design](#) - Hospitality, Human Services and Education

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

*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

5802, 5803

BHS, MVHS, TVHS (Grades 10, 11, 12)

Credit: 1.0 Applied Arts / CTE

Pathway: [Health Sciences](#) - Hospitality, Human Services and Education

*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

8001

BHS, LHS, MVHS, TVHS (Grades 11, 12)

Credit: .50 Applied Arts / CTE

Fee: \$5 per semester

Pathway: [Life Skills](#) - Hospitality, Human Services and Education

## LIFE MANAGEMENT

8001

FHS

Credit: .25 Applied Arts / CTE

Fee: \$2.50 per quarter

Pathway: [Life Skills](#) - Hospitality, Human Services and Education

*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

8020

BHS, LHS, MVHS, TVHS

Credit: .50 Fitness

Fee: \$25 per semester

Pathway: [Life Skills](#) - Hospitality, Human Services and Education

## NUTRITION AND WELLNESS

8020

FHS

Credit: .20 Fitness

Fee: \$12.50 per semester

Pathway: [Life Skills](#) - Hospitality, Human Services and Education

*Wellness is more than just eating well and working out!*

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

## Family and Consumer Sciences

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

### PROSTART 1

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 (Civics Requirement) – 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 teachers 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

Fee: \$10 per semester

Pathway: [Life Skills](#) - Hospitality, Human Services and Education

### TEEN CHALLENGES AND CHOICES

8000

FHS

Credit: .25 Health

Fee: \$5 per quarter

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

7601

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

8000

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)**

## **AEROSPACE ENGINEERING**

8410, 8411

MVHS

Credit: 1.0 Applied Arts / CTE

Fee: \$30 per semester

Recommended: Introduction to Engineering Design or Principles of Engineering

Pathway: [Project Lead the Way](#) / Engineering - STEM, Arts, Design and Information Technology

*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

## **ARCHITECTURAL DRAWING**

8304, 8305

TVHS

Credit: 1.0 Applied Arts / CTE

Fee: \$15 per semester

Recommended: Technical Drawing

Pathway: [Architecture and Construction](#) - STEM, Arts, Design and Information Technology

*In Architectural Drawing, students will:*

- draw and read residence plans
- practice application of construction principles and local building codes relating to residential design and planning
- draw typical sheets in residential plans including a site plan, floor plan, foundation plan, elevations, and section details
- utilize computer aided drafting (CAD) techniques for design

# Industrial Science and Technology

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

## CONSTRUCTION 1

MVHS, TVHS

8310, 8311

Credit: 1.0 Applied Arts / CTE

Fee: \$25 per semester

Pathway: [Architecture and Construction](#) - STEM, Arts, Design and Information Technology

BHS

8310

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

8312

BHS, MVHS

**CONSTRUCTION 2 - INTRO TO CONSTRUCTION & ROUGH CARPENTRY**

S5302

**CONSTRUCTION 2 - INTRO TO FINISH CARPENTRY**

S5303

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

8414, 8415

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)

## ENGINEERING YOUR WORLD

8416, 8417

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

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

5085

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

## GEOMETRY IN CONSTRUCTION

- Geometry

2024, 2025

- Construction

8314, 8315

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: .50 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

# ***Industrial Science and Technology***

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

## **MANUFACTURING 2**

8332, 8333

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**

8402, 8403

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**

8306, 8307

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**

8302, 8303

MVHS, TVHS

Credit: 1.0 Applied Arts / CTE

Fee: \$15 per semester

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**

8320

TVHS

Credit: .50 Applied Arts / CTE

Fee: \$15 per semester

Pathway: [Industrial Science and Technology](#) - STEM, Arts, Design and Information Technology

*In Transportation 1, students will:*

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

## **TRANSPORTATION 2**

8322, 8323

TVHS

Credit: 1.0 Applied Arts / CTE

Fee: \$15 per semester

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

## ***Industrial Science and Technology***

**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 weld ability 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

# Marketing

Students taking Marketing courses may join DECA.

## COMPUTER GRAPHICS 3 – ANIMATION

5076

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

5078

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

5120, 5121

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

# Marketing

Students taking Marketing courses may join DECA.

## ENTREPRENEURSHIP 2

5124, 5125

BHS, LHS, MVHS, TVHS

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 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

## PATHWAY INTERNSHIP – BUSINESS, MARKETING AND PUBLIC ADMINISTRATION

5084

BHS, LHS, MVHS, TVHS

Credit: .50 Applied Arts / CTE

Pathway: [Business](#) – Business, Marketing and Public Administration

Pathway: [Business Information Technology](#)- Business, Marketing and Public Administration

Pathway: [Marketing](#) - Business, Marketing and Public Administration

*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

## INTRODUCTION TO BUSINESS AND MARKETING

5018

BHS, LHS, MVHS, TVHS

Credit: .50 Applied Arts / CTE

Fee: \$5 per semester

Pathway: [Business](#) – Business, Marketing and Public Administration

Pathway: [Marketing](#) - Business, Marketing and Public Administration

*In Introduction to Business and Marketing, students will:*

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

# Marketing

Students taking Marketing courses may join DECA.

## MARKETING RESEARCH

5041

LHS, MVHS, TVHS

Credit: .50 Applied Arts

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

5050, 5051

- INTERNSHIP

5052, 5053, 5054, 5055

MVHS

LHS, TVHS (Grade 12)

Credit: 1.0 Applied Arts / CTE - Class

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

5126, 5127

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

5042

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.

## SPORTS AND ENTERTAINMENT MARKETING

5040

LHS, MVHS, TVHS

Credit: .50 Applied Arts / CTE

Fee: \$5 per semester

Pathway: [Marketing](#) - Business, Marketing and Public Administration

*In Sports and Entertainment Marketing, students will:*

- analyze the theoretical marketing processes and the strategies of product development, pricing, promotion, and distribution

## WEB DESIGN

5012

BHS, LHS, MVHS, TVHS

Credit: .50 Applied Arts / CTE

Fee: \$5 per semester

Pathway: [Business Information Technology](#) - Business, Marketing and Public Administration

Pathway: [Marketing](#) - Business, Marketing and Public Administration

*In Web Design, students will:*

- learn about technology and software requirements, security issues, electronic payment, and marketing strategies
- stress the fundamentals of HTML syntax using a text editor to develop interactive web sites
- explore web-safe colors and graphic editors
- study web aesthetics and intuitive interface design
- emphasize file organization and layout

# Mathematics

## ALGEBRA 1

2012, 2013

BHS, FHS, LHS, MVHS, TVHS

Credit: 1.0 Math

*In Algebra 1, students will:*

Emphasize a balanced combination of procedure and conceptual understanding focusing on four critical areas:

- using functions to model situations where one quantity determines another and can be represented algebraically, graphically, and using tables
- modeling and solving quantitative relationships in the real world using functions
- representing expressions in multiple, equivalent forms
- developing solutions to equations, inequalities, and systems of equations using a variety of tools

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

## ALGEBRA 1 HONORS

2014, 2015

Credit: 1.0 Math

*In Algebra 1 Honors, students will:*

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

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

## ALGEBRA 1 IB MYP/HONORS

2302, 2303

LHS

Credit: 1.0 Math

*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

## AMPED - 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 Career Pathway Elective – 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

## ALGEBRA 2

2040, 2041

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

2046, 2047

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

2052, 2053

Credit: 1.0 Math

Recommended: Geometry

*In Algebra 2 Honors, students will:*

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

# Mathematics

## ALGEBRA 2 IB MYP/HONORS

2310, 2311

LHS

Credit: 1.0 Math

Recommended: Geometry

*In Algebra 2 IB MYP, students will:*

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

## 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 10,11,12)

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

2504, 2505

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

2082, 2083

BHS, TVHS

Credit: 1.0 Math

Recommended: Trigonometry/Functions

*In Calculus, students will:*

- understand limits of functions through graphing, symbolic, and numerical evaluation
- understand the concept of a function derivative and apply it to related rate and extreme problems
- understand the concept of a function integral and apply it to area, volume, and work problems

## AP CALCULUS AB

2084, 2085

BHS, LHS, MVHS, TVHS

Credit: 1.0 Math

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

2087, 2092

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

2068, 2069

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

2062, 2063

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

2506, 2507

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

2101

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

# Mathematics

## GEOMETRY

2020, 2021

BHS, FHS, LHS, MVHS, TVHS

Credit: 1.0 Math

Recommended: Algebra 1

*In Geometry courses, student will:*

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

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

## GEOMETRY PRE AP

2026, 2027

MVHS, TVHS

Credit: 1.0 Math

Recommended: Algebra 1

*In Geometry Pre AP, students will:*

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

## GEOMETRY HONORS

2028, 2029

MVHS, TVHS

Credit: 1.0 Math

Recommended: Algebra 1

*In Geometry Honors, students will:*

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

## GEOMETRY IB MYP/HONORS

2300, 2301

LHS

Credit: 1.0 Math

Recommended: Algebra 1 IB MYP/Honors

*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.

# Mathematics

## GEOMETRY IN CONSTRUCTION

- Geometry	2024, 2025
- Construction	8314, 8315

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)	2320, 2321
- IB DP Mathematics HL 11 (Calculus BC)	2322, 2323
- IB DP Mathematics SL 12	2330, 2331
- IB DP Mathematics HL 12	2332, 2333

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

2346, 2347

LHS

Credit: 1.0 Math / Career Pathway Elective for each course

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.

# Mathematics

## IB DP MATH ANALYSIS AND APPROACHES 12 HL

2348, 2349

LHS

Credit: 1.0 Math / Career Pathway Elective for each course

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

2080, 2081

LHS

Credit: 1.0 Math

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.

*Math Studies, students will:*

- be able to demonstrate skills in the afore mentioned math topics
- be able to apply mathematical principles and terminology
- be able to demonstrate competence in mathematical methods
- be able to apply research skills in solving mathematical problems
- use reasoning when applying mathematical skills
- be able to communicate their process and outcomes both written and orally

## 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

# Mathematics

## PROBLEM SOLVING STRATEGIES

2100

BHS, MVHS, TVHS

Credit: .50 Math

Recommended: Algebra 2

*In Problem Solving Strategies, students will:*

- solve non-routine math problems using a variety of strategies: matrix logic, systematic lists, unit analysis, and Venn diagrams
- improve in communication of mathematics in written and verbal form
- increase their confidence and skills as a problem solver

## AP STATISTICS

2102, 2103

BHS, LHS, MVHS, TVHS

Credit: 1.0 Math

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, MVHS, TVHS

Credit: 1.0 Math

Recommended: Algebra 2

*In Trigonometry/Functions students, will:*

- describe transformations and graph various functions and conic sections
- use identities to solve and graph trigonometric functions
- graph and solve various polynomial, exponential, and logarithmic functions
- solve systems of equations

# Music

***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 20<sup>th</sup> 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***

### **CONCERT/MARCHING BAND\***

6052, 6053

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: Eighth Grade Band or Instructor Approval

*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

### **CONCERT/MARCHING BAND 2\***

6058, 6059

BHS

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: Concert/Marching Band

### **CONCERT/MARCHING BAND 3\***

6060, 6061

BHS

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: Concert/Marching Band 2

### **CONCERT/MARCHING BAND 4\***

6062, 6063

BHS

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: Concert/Marching Band 3

## Music

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

### INTRODUCTION TO GUITAR

6044

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

6038, 6039

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

6004, 6005

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

6006, 6007

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

### **MEN'S CHOIR**

6014, 6015

BHS, LHS, MVHS, TVHS

Credit: 1.0 Fine Arts

Fee: \$15 per semester

*In Men's Choir students will:*

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

## Music

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

### MIXED CHOIR

6016, 6017

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

6672, 6673

TVHS

Credit: 1.0 Fine Arts

*In Pre AP Music students will:*

### \*MUSIC ENSEMBLE

LHS

6042, 6043

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

6042

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

6078

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 6009

BHS, FHS, LHS, MVHS, TVHS

Credit: .50 Fine Arts

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

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

*In Music Theory, students will:*

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

## MUSIC THEORY 2 XXXX

FHS

Credit: .50 Fine Arts

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

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

*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

## AP MUSIC THEORY 6010, 6011

LHS, MVHS, TVHS

Credit: 1.0 Fine Arts

Fee: Student pays for textbook and AP Exam

Recommended: A strong background of music theory recommended and approval of the instructor

*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 6205

MVHS

Credit: .50 Fine Arts

Fee: \$115 – Includes course fee of \$15 and \$100 for Theatre

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

*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**

### 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

### \*SHOW/JAZZ CHOIR

6020, 6021

BHS, LHS, MVHS, TVHS

Credit: 1.0 Fine Arts

Fee: \$15 per semester

Recommended: Instructor approval, audition AND membership in Chamber, Mixed, Men's or Women's Choir (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 20<sup>th</sup> century popular music: musical theater, vocal jazz, and contemporary pop/rock styles
- attend all choral performances
- determine concert attire and attend performances

## Music

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

### **SYMPHONIC BAND**

6002, 6003

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**

6054, 6055

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**

6064, 6065

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**

6066, 6067

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

### **SYMPHONIC / MARCHING BAND 4**

6068, 6069

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**

### PRE-AP THEATRE

6672, 6673

TVHS

Credit: 1.0 Fine Arts

*In Pre AP Theatre students will:*

### WIND ENSEMBLE

6036, 6037

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 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

6056, 6057

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 Wind Ensemble/Marching Band, students will:*

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

### WIND ENSEMBLE/MARCHING BAND 2

6070, 6071

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

### WIND ENSEMBLE/MARCHING BAND 3

6072, 6073

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***

<b>WIND ENSEMBLE/MARCHING BAND 4</b>	6074, 6075
--------------------------------------	------------

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

<b>WOMEN'S CHOIR</b>	6012, 6013
----------------------	------------

BHS, LHS, TVHS

<b>WOMEN'S CHOIR</b>	6112, 6113
----------------------	------------

MVHS

Credit: 1.0 Fine Arts

Fee: \$15 per semester

Recommended: Audition or instructor approval only at TVHS

*In Women's Choir, students will:*

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

<b>WOMEN'S CHOIR ADVANCED</b>	6018, 6019
-------------------------------	------------

LHS, TVHS

<b>WOMEN'S CHOIR ADVANCED</b>	6118, 6119
-------------------------------	------------

MVHS

Credit: 1.0 Fine Arts

Fee: \$15 per semester

Recommended: Audition and/or instructor approval

*In Women's Choir Advanced, students will:*

- demonstrate a higher level of basic principles of choral techniques listed in the previous course descriptions
- develop their vocal skills more dramatically by means of more challenging literature and a greater emphasis on vocal production
- perform music which reflects all musical style periods and the musical heritage of the large mixed chorus
- attend all choral performances
- determine concert attire

# Physical Education

## AQUATICS and FITNESS

7626

LHS, MVHS, TVHS

Credit: .50 Fitness

*In Aquatics students will:*

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

## FITNESS

7600

BHS, FHS, LHS, MVHS, TVHS

Credit: .50 Fitness

*In Fitness, students will:*

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

## JROTC - LEVEL 1

8618, 8619

LHS

Credit: .50 Fitness - Semester 1

Credit: .50 Social Studies - Semester 2 (meets Civics Requirement)

Fee: \$25 per semester

The JROTC program is offered at Loveland High School. Transportation may be available to students who attend another high school and wish to participate in this program.

*In JROTC 1, students will:*

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

## NUTRITION AND WELLNESS

8020

BHS, LHS, MVHS, TVHS

Credit: .50 Fitness

Fee: \$25 per semester

Pathway: [Life Skills](#) - Hospitality, Human Services and Education

*In Nutrition and Wellness, students will:*

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

# Physical Education

## TEAM SPORTS AND FITNESS

7628

BHS, LHS, MVHS, TVHS

Credit: .50 Fitness

*In Team Sports and Fitness, students will:*

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

## WEIGHT TRAINING 1 AND FITNESS

- Men's Weights & Fitness

7632

- Women's Weights & Fitness

7634

BHS, LHS, MVHS, TVHS

Credit: .50 Fitness

*In Weight Training 1, students will:*

- develop skills and knowledge in weight lifting and muscle toning exercises so that they can safely and successfully lift weights as a recreational activity or to utilize their weight lifting knowledge in pursuit of specific goals for personal or athletic improvement
- develop the knowledge about safety, spotting techniques, muscles and their movement, cardiovascular conditioning, and work ethic
- complete and turn in a comprehensive personal fitness plan that includes setting goals, keeping an activity log and reflecting on their experience

# Science

## 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](http://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

# Science

## AP BIOLOGY

3026, 3027

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

3034

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

3040, 3041

BHS, FHS, LHS, MVHS, TVHS

Credit: 1.0 Science

Recommended: Algebra 1

***Sophomores with a strong interest in science may take Chemistry and Biology concurrently 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

3042, 3043

BHS, MVHS, TVHS

Credit: 1.0 Science

Recommended: BHS recommends Pre AP Geophysical

*In Chemistry Pre AP, students will:*

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

## CHEMISTRY HONORS

3082, 3083

LHS

Credit: 1.0 Science

Recommended: Pre AP Chemistry and Algebra II

Fee: Student pays for textbook.

*In Chemistry Honors, students will:*

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

# Science

## AP CHEMISTRY

3044, 3045

BHS, LHS, MVHS, TVHS

Credit: 1.0 Science

Fee: Student pays for textbook and AP Exam

Recommended: Pre AP Chemistry and Algebra II

*In AP Chemistry, students will:*

- study the equivalent, in both class work and lab work, of a first year college Chemistry course
- have the opportunity to prepare for the AP Chemistry test and receive college credit

## ENVIRONMENTAL SCIENCE

3048, 3049

BHS, FHS, LHS, MVHS, TVHS

Credit: 1.0 Science

Recommended: Biology

*In Environmental Science, students will:*

- explore aspects of land, water, wildlife, and human dimensions as related to the science of ecology and natural resources
- evaluate the relationships between science, technology, and human activity and how they can affect the world

## AP ENVIRONMENTAL SCIENCE

3050, 3051

TVHS

Credit: 1.0 Science

Fee: Student pays for textbook and AP Exam

Recommended: Biology and/or Chemistry

*In AP Environmental Science, students will:*

- study the equivalent, in both class work and labs, of a one semester introductory college level Environmental Science class
- have the opportunity to prepare for the AP Environmental Science test and receive credit

## ENVIRONMENTAL SUSTAINABILITY

3080, 3081

BHS

Credit: 1.0 Science

Fee: \$30 per semester

Recommended: Biology

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

*In Environmental Sustainability, students will:*

- investigate and design solutions to solve real-world challenges including: world food security, renewable energy, and clean drinking water
- apply scientific and technical knowledge using an engineering design process and have the opportunity to help solve global challenges by creating and testing solutions such as genetically engineered bacteria, producing fuel from plants, and designs for emergency water filtration in disaster areas

# Science

## FORENSIC SCIENCE 3084

TVHS

Credit: .50 Science

## FHS 3084

Credit: .25 Science

*In Forensic Science, students will:*

- meet selected state standards through the study of scientific method, cell biology, genetics, and science and technology
- use small scale and traditional labs and classroom discussion to learn about reactions
- learn about motion
- study structures and functions of human anatomy
- explore career relevance for those interested in health-related careers

## GENETICS 3070

BHS, LHS, MVHS, TVHS

Credit: .50 Science

Recommended: Biology

*In Genetics, students will:*

- use laboratories and projects to understand the areas of classical and applied genetics through the topics of inheritance patterns/probabilities, biotechnology, chromosomal inheritance, and human genetics
- explore related careers through projects and classroom discussion

## GEOPHYSICAL LAB 3000, 3001

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 3004, 3005

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 3010, 3011

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.

# Science

## GEOPHYSICAL LAB IB MYP/HONORS

3302, 3303

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

3064

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 dissection
- explore career relevance for those interested in health-related careers

## HUMAN ANATOMY AND PHYSIOLOGY 2

3065

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

- IB DP Biology 11 HL

3320, 3321

- IB DP Biology 12 HL

3334, 3335

LHS

Credits: 1.0 Science for each course

This two-year course will emphasize the experimental nature of science and the scientific method as well as the content of a typical introductory college biology course.

*In IB DP Biology, students will:*

- spend time planning experiments, conducting experiments and learning various lab techniques, organizing and analyzing data, and making valid conclusions based upon these data
- become familiar with the growing field of biochemistry as they learn about the molecules of life, enzyme activity, cellular respiration, photosynthesis, DNA replication, and protein synthesis
- explore the relationship between structure and function as they learn parts of cells and functions of plant and animal systems
- know the unity of life, and its diversity, as they study mitosis, genetics, and taxonomy
- study equilibrium in relation to physiology of animal, especially human, systems
- understand the interdependence of organisms the world over will be emphasized in the ecology topics
- have the opportunity to design, conduct, evaluate, and communicate about a scientific investigation
- provide a body of knowledge for biology, including unifying concepts, themes of structure and function, equilibrium, universality, diversity, and evolution
- identify the connections among the various branches of science and between science and other fields
- emphasize global contexts for biology, such as the greenhouse effect, pollution, immunology, or the Human Genome Project
- develop interpersonal skills in group work during scientific investigations and in oral/written communication

## Science

### IB DP CHEMISTRY HL

- IB DP Chemistry 11 HL

3322, 3323

- IB DP Chemistry 12 HL

3336, 3337

LHS

Credits: 1.0 Science per year

This two-year course introduces students to concepts required for solving problems both qualitative and quantitative in chemistry for understanding chemical reactivity.

*In IB DP Chemistry HL, students will:*

- develop analytical thinking skills
- design and conduct chemical investigations and then analyze and interpret their data, develop relevant equations from graphs of data and communicate their findings via formal laboratory reports
- data and communicate their findings via formal laboratory reports
- provide a body of knowledge of chemistry including unifying themes
- develop correlations between chemical bonding, oxidation-reduction and the Krebs 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

3338, 3339

LHS

Credits: 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

3072

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

# Science

## PHYSICS

3052, 3053

BHS, FHS, LHS, MVHS, TVHS

Credit: 1.0 Science

Recommended: Algebra 2

*In Physics, students will:*

- learn about motion, energy, relativity, light, sound, heat, optics, electricity, or aerodynamics without the rigorous mathematics of AP Physics
- apply learning through objects like catapults, lasers, black holes, and machines
- receive a good introduction to Physics in preparation for technical, humanities, and fine arts fields
- advanced math students should consider registering for AP Physics

## PHYSICS WITH TRIGONOMETRY/FUNCTIONS

- 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

# Science

## 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

3060, 3061

LHS

Credit: 1.0 Science

Fee: Student pays for textbook and AP Exam

Recommended: AP Calculus

*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

3068, 3069

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

# Social Studies

## CIVICS

4000

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

4004, 4005

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

4018, 4019

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.

## CIVICS/GEOGRAPHY IB MYP/HONORS

4300, 4301

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

4091

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

4060

BHS, FHS, LHS, MVHS

TVHS (Grade 12)

Credit: .50 Social Studies

*In Economics, students will:*

- develop an understanding of the basics of microeconomics and macroeconomics
- be presented a framework for studying economic concepts, processes, and issues
- study the American economic system, other types of economic systems, their functions, and their effects around the world

### ENGLISH 11 AND MODERN AMERICA INTEGRATED

- English 11 Integrated

1044, 1045

- Modern America Integrated

4044, 4045

TVHS

Credit: 1.0 Language Arts – 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

4094, 4095

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

## Social Studies

### IB DP HISTORY OF THE AMERICAS HL

- IB History of Americas 11	4320, 4321
- IB History of Americas 12 /Economics	4334, 4335

LHS

Credits: 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

4336, 4337

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

4338, 4339

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

8618, 8619

BHS, LHS, MVHS, TVHS

Credit: .50 Fitness - Semester 1

Credit: .50 Social Studies (Civics Requirement) - Semester 2

Fee: \$25 per semester

The JROTC program is offered at Loveland High School. Transportation may be available to students who attend another high school and wish to participate in this program.

*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.

# Social Studies

## AP MACROECONOMICS

4062

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

4063

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

4040, 4041

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

4090

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

4048, 4049

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

4110, 4111

MVHS

Credit: .50 Social Studies and .50 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

4088, 4089

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-Sahara Africa, Russia and Central Asia, Europe, South America, Central America, and North America

## WORLD GEOGRAPHY HONORS

4096

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

4020, 4021

BHS, FHS, LHS, MVHS, TVHS

Credit: 1.0 Social Studies

*In World History, students will:*

- examine the world's major religious, philosophical, political, economic, and social belief systems
- examine how the systems listed above were developed, created, and spurred change throughout history
- develop note taking, organizational, writing, analytical, and critical thinking skills

## WORLD HISTORY PRE AP

4034, 4035

Credit: 1.0 Social Studies

*In World History Pre AP, students will:*

- read, respond, and apply thinking skills
- understand the purpose of language skills
- write personal narratives, compare/contrast, problem/solution short responses as well as persuasive essays
- examine the world's major religious, philosophical, political, economic, and social belief systems and examine how they spurred change
- develop note taking, organizational, analytical, and critical thinking skills

# Social Studies

## WORLD HISTORY HONORS

4036, 4037

Credit: 1.0 Social Studies

Fee: Student pays for textbook

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

4310, 4311

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 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

4050, 4051

TVHS

Credit: 1.0 Social Studies

*In Pre AP World History and Geography students will:*

## AP WORLD HISTORY: MODERN

4028, 4029

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

# Thompson School District – Seal of Biliteracy

## How to Earn the Seal

### 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:

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

#### 3. Show Proficiency in a World Language.

Students must complete **one** of the following in their senior year:

AP Spanish Language, AP French Language, German Language	AP	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.thompsonschoools.org/tsdsealofbiliteracy>

# State of Colorado – Seal of Biliteracy

## How to Earn the Seal

### 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:

ACT (English section)	18 or higher
AP English Language & Composition	3 or higher
AP English Literature & Composition	3 or higher
IB English Language & Literature A	4 or higher
SAT (English section)	470 or higher
English 121-Community College Course	C or better

### 3. Show Literacy in a World Language.

Students must complete one of the following in their senior year:

AP Spanish Language, AP French Language, AP German Language	3 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.	14 or higher (Intermediate-mid or higher) on all four sections



Application, information and more are at:

<https://www.thompsonschoools.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.

### LEVEL 1

<b>French</b> - BHS, LHS, MVHS, TVHS	7000, 7001
<b>German</b> - LHS, TVHS	7014, 7015
<b>Spanish</b> - BHS, LHS, MVHS, TVHS	7028, 7029
<b>American Sign Language</b> – LHS	7100, 7101

Credit: 1.0 World Language

### LEVEL 1 – PRE AP

<b>French</b> – TVHS	7002, 7003
<b>Spanish</b> – MVHS, TVHS	7030, 7031

Credit: 1.0 World Language

### LEVEL 1 - HONORS

<b>French</b> – BHS	7062, 7063
<b>German</b> – BHS	7072, 7073
<b>Spanish</b> – BHS	7082, 7083

Credit: 1.0 World Language

### LEVEL 1 - IB MYP/HONORS

<b>French</b> – LHS	7300, 7301
<b>German</b> – LHS	7302, 7303
<b>Spanish</b> – LHS	7304, 7305

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

<b>French</b> - BHS, LHS, MVHS, TVHS	7004, 7005
<b>German</b> - LHS, TVHS	7018, 7019
<b>Spanish</b> - BHS, LHS, MVHS, TVHS	7032, 7033
<b>American Sign Language</b> – LHS	7102, 7103

Credit: 1.0 World Language

Recommendation: Successful completion of Level 1

## LEVEL 2 – PRE AP

<b>French</b> - MVHS, TVHS	7006, 7007
<b>German</b> - TVHS	7020, 7021
<b>Spanish</b> - MVHS, TVHS	7034, 7035

Credit: 1.0 World Language

Recommendation: Successful completion of Level 1

## LEVEL 2 - HONORS

<b>French</b> – BHS	7064, 7065
<b>German</b> – BHS	7074, 7075
<b>Spanish</b> – BHS	7084, 7085

Credit: 1.0 World Language

Recommendation: Successful completion of Level 1

## LEVEL 2 - IB MYP/HONORS

<b>French</b> – LHS	7306, 7307
<b>German</b> – LHS	7370, 7371
<b>Spanish</b> – 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

# World Languages

## LEVEL 3

<b>French</b> - BHS, LHS, MVHS, TVHS	7008, 7009
<b>German</b> - LHS, TVHS	7022, 7023
<b>Spanish</b> - BHS, LHS, MVHS, TVHS	7036, 7037

Credit: 1.0 World Language

Recommendation: Successful completion of Level 2

## LEVEL 3 – PRE AP

<b>French</b> - TVHS	7048, 7049
<b>German</b> - TVHS	7052, 7053
<b>Spanish</b> - MVHS, TVHS	7042, 7043

Credit: 1.0 World Language

Recommendation: Successful completion of Level 2

## LEVEL 3 - HONORS

<b>French</b> – BHS	7066, 7067
<b>German</b> – BHS, LHS	7076, 7077
<b>Spanish</b> – BHS	7086, 7087

Credit: 1.0 World Language

Recommendation: Successful completion of Level 2

## LEVEL 3 - IB MYP/HONORS

<b>French</b> – LHS	7366, 7367
<b>Spanish</b> – 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.

# World Languages

## LEVEL 4

<b>French</b> – BHS, LHS, MVHS	7010, 7011
<b>German</b> - LHS, TVHS	7024, 7025
<b>Spanish</b> - BHS, LHS, MVHS, TVHS	7038, 7039

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

<b>Spanish</b> – MVHS, TVHS	7044, 7045
-----------------------------	------------

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

<b>French</b> – BHS	7068, 7069
<b>Spanish</b> – BHS	7088, 7089

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

<b>Spanish</b> – LHS	7388, 7389
----------------------	------------

Credit: 1.0 World Language Recommendation: Successful completion of Level 3  
Dual college credit may be available – see your school counselor for more information

## IB DP LANGUAGE B (SL)

French 4 - LHS	7330, 7331
German 4 - LHS	7332, 7333
Spanish 4 - LHS	7334, 7335

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.

### **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 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

# World Languages

## LEVEL 5

**French** – LHS

7012, 7013

**Spanish** – LHS, MVHS, TVHS

7040, 7041

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** – BHS

7070, 7071

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

7388, 7389

Credit: 1.0 World Language

Recommendation: Successful completion of Level 4

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

## IB DP LANGUAGE B (SL)

French 5 - LHS

7336, 7337

Spanish 5 - LHS

7338, 7339

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

7046, 7047

**French** – LHS

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.
- 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.

### **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

# ***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.

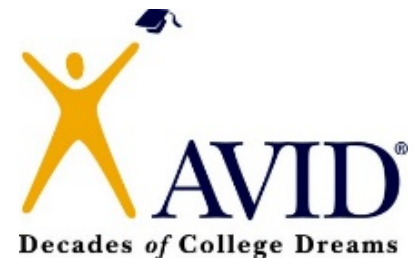
## **What Does the AVID Class Look Like?**

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.thompsonschoools.org/Page/17233>

Any questions can be answered by contacting the AVID coordinator Laura Light-Kovacs at: [laura.light-kovacs@thompsonschoools.org](mailto:laura.light-kovacs@thompsonschoools.org)



# Advanced Placement Capstone Diploma Program

## Thompson Valley High School

AP Capstone<sup>™</sup> 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>

### AP Research

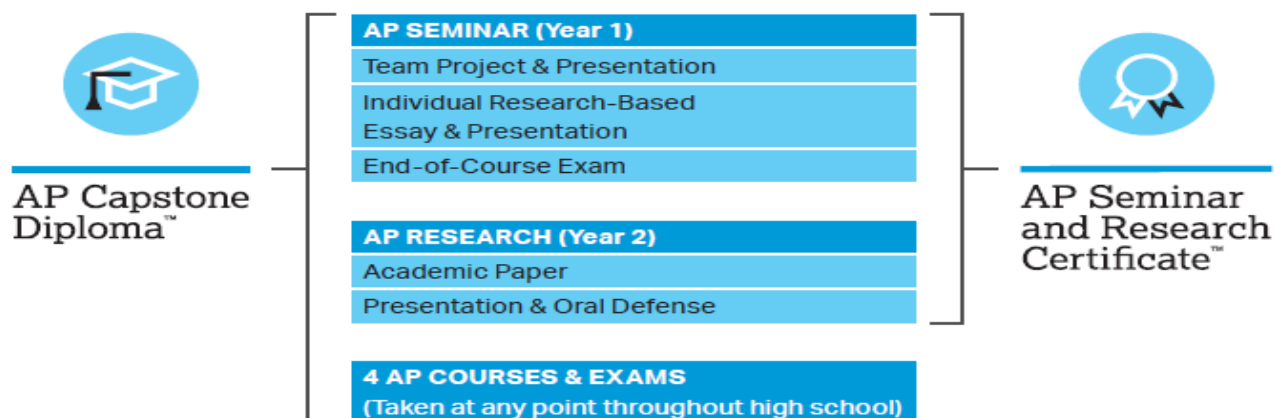
In AP Research, you will explore various research methods and complete an independent research project. Your project can build on a topic, problem, or issue you covered in AP Seminar or on a brand new topic of your own choosing.

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>

## 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<sup>™</sup>**.

If you earn scores of 3 or higher in AP Seminar and AP Research, you'll receive the **AP Seminar and Research Certificate<sup>™</sup>**.



# ***Advanced Placement Capstone Diploma Program***

---

## **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](https://collegeboard.org/apcapstonehed).

## ***Concurrent Enrollment - High School Select Classes***

---

High School Select is a concurrent enrollment program that allows high school students to take a college level class at their home high school for college credit. Tuition is covered by the school district, but students may be responsible for 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***

---

Students bring their strengths, curiosity, and passions to E<sup>3</sup>, collaborating with teachers, parents, and community members to design personalized projects and pathways in pursuit of life, independence, and academic excellence.

E3 is a part-time, personalized learning program available to students, in grades K – 12, enrolled in Thompson School District. Students have the opportunity to work with community professionals and stakeholders from the Northern Colorado area. Current student projects include work in non-destructive testing, automotive mechanics, fabrication, and engineering, oil and gas, theatrical makeup and set design, and law enforcement.

E<sup>3</sup> mentor/student teams are established to facilitate a safe, open environment that provides an educational opportunity beyond classroom walls, while fostering deep learner satisfaction and engagement. Students learn alongside industry experts from the local community who generously share their time and talents to provide authentic learning experiences in the student's areas of passion interest.

This part-time program provides opportunities for career and talent exploration in addition to establishing professional relationships while students remain in school. Visit <https://e3learningtsd.org/>, for more information.



## ***International Baccalaureate Programme at Loveland High School***

The International Baccalaureate Programme is an interdisciplinary, intercultural, inquiry-based approach to education. Loveland High School has been an IB World School since 2007. **IB classes are open to any interested student.**

Should you have any questions about the IB MYP or DP at Loveland High School, please contact:  
John Parks, LHS IB Coordinator [john.parks@thompsonschoools.org](mailto:john.parks@thompsonschoools.org), 970.613.5282  
Jeannette Ryan, Assistant Principal [jeannette.ryan@thompsonschoools.org](mailto:jeannette.ryan@thompsonschoools.org), 970-613-5277

Loveland High School offers the **Middle Years Programme**, which is available 6<sup>th</sup> – 10<sup>th</sup> grade (LEMS 6<sup>th</sup>-8<sup>th</sup> and LHS 9<sup>th</sup> and 10<sup>th</sup>) as well as the **Diploma Programme** for 11<sup>th</sup> and 12<sup>th</sup> 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. An 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. 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>

Students must earn a minimum overall score on their IB assessments to receive their IB Diploma. IB Diplomas are awarded in July, following your 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 \$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.

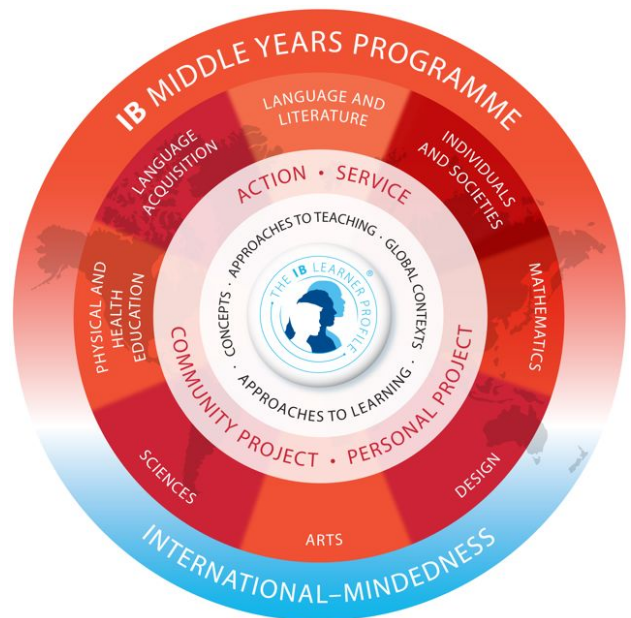
These programmes encourage students across the world to become active, compassionate and lifelong learners who understand that other people, with their differences, can also be right.

(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).

## ***IB Middle Years Programme (MYP)***

---

### **IB MYP PERSONAL PROJECT**

8692

Credit: .50 Career Pathway Elective

\*This class may be scheduled to meet outside of the normal school day

*Through the IB MYP Personal Project, students will:*

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

# ***IB Diploma Programme (DP)***

## **Course of Study: Grades 11- 12**

- Language A English Literature HL
- Language Acquisition SL: Spanish, French or German
- History of the Americas HL
- Sciences: Biology HL/SL, Chemistry HL/SL
- Math Studies SL, Mathematics HL/SL, Further Math HL
- Music SL
- Theory of Knowledge

## **Diploma Programme Core: TOK, EE, CAS**

These core elements of the DP have the aim of educating the whole person and providing the highest level of college preparedness.

### **Theory of Knowledge (TOK)**

This is a one-year course reserved for full IB Diploma candidates. It is taught during the Spring semester of 11<sup>th</sup> grade and Fall semester of 12<sup>th</sup> 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 11<sup>th</sup> and 12<sup>th</sup> grades which the students regularly reflect upon.



# ***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.thompsonschoools.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@thompsonschoools.org](mailto:lisa.application@thompsonschoools.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@thompsonschoools.org](mailto:Gwynne.johnson@thompsonschoools.org) or call 970.613.7834**

# LISA Courses

## LISA PRE AP ENGLISH 9

1200, 1201

Credit: 1.0 Language Arts

*In LISA Pre AP English 9, students will:*

- use the visual and performing arts as an emphasis to learn the content listed below
- learn and identify language skills, use correct mechanics, and study vocabulary
- read, respond, and apply thinking skills to novels, short stories, nonfiction, poetry and a Shakespeare play
- write, using the writing process, compare/contrast, cause/effect, and problem/solution short responses and essays
- present a problem/solution or cause/effect presentation

## LISA CIVICS HONORS

4200, 4201

Credit: 1.0 Social Studies

*In LISA Pre AP Civics, students will:*

- use the visual and performing arts as an emphasis to learn the content listed below
- gain an understanding of the law and the legal system of the United States
- be aware of current issues and be encouraged to participate as citizens in the legal system
- receive an introduction to the origin and development of our legal system
- perform required community service

## LISA CIVICS INTEGRATED WITH ECONOMICS HONORS

4014, 4015

Credit: 1.0 Social Studies

*In LISA Pre AP Civics and Economics, students will:*

- use the visual and performing arts as an emphasis to learn the content listed below
- gain an understanding of the law and the legal system in the United States
- be aware of current issues and be encouraged to participate as citizens in the legal system
- receive an introduction to the origin and development of our legal system and government
- perform required community service
- develop an understanding of the basics of microeconomics and macroeconomics
- study the American economic system, other types of economic systems, their functions, and their effects around the world

## LISA PRE AP WORLD GEOGRAPHY 1

4210

## LISA PRE AP WORLD GEOGRAPHY 2

4211

Credit: 1.0 Social Studies

*In LISA Pre AP World Geography 1 and 2, students will:*

- use the visual and performing arts as an emphasis to learn the content listed below
- be presented to a geographic view of the world through the use of the five themes of geography
- develop map skills that will enable them to analyze human interaction between cultures and the environment

## LISA PRE AP GEOPHYSICAL

3200, 3201

Credit: 1.0 Science

*In LISA Pre AP Geophysical Lab Science, students will:*

- use the visual and performing arts as an emphasis to learn the content listed below
- investigate astronomy, meteorology, hydrology, geology, and paleontology
- quantitatively analyze the above subjects with introductory concepts and tools from chemistry and physics to increase critical skills

# LISA Courses

## LISA PRE AP BIOLOGY

3202, 3203

Credit: 1.0 Science

*In LISA Pre AP Biology, students will:*

- use the visual and performing arts as an emphasis to learn the content listed below
- meet selected state standards through the study of scientific method, cell biology, classification, genetics, ecology, science and technology

## LISA ARTS and CULTURE 1

6802

Credit: .50 Fine Arts

*In LISA Arts and Culture 1, students will:*

- read literature/drama, view works of art and listen to music from the Prehistoric era of time through the Renaissance period
- gain an understanding of how visual art, theatre dance, and music help shape society
- make connections between arts and culture and their core classes

## LISA ARTS and CULTURE 2

6803

Credit: .50 Language Arts

Recommended: LISA Arts and Culture 1 recommended

*In LISA Arts and Culture 2, students will:*

- read literature/drama, view works of art, and listen to music from the Renaissance in Europe through the Mid-20th century
- gain an understanding of how visual art, theatre, dance, and music help shape society
- fulfills English 12 requirement
- 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

## LISA CAPSTONE

8695

Grade 12

Credit: .50 Language Arts

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

## ***Project Lead the Way (PLTW)***

### **Berthoud and Mountain View High Schools**

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

### AEROSPACE ENGINEERING

8410, 8411

MVHS

Credit: 1.0 Applied Arts / CTE

Pathway: [Project Lead the Way](#) / Engineering - STEM, Arts, Design and Information Technology

*In Aerospace Engineering, students will:*

- apply scientific and engineering concepts to design materials and processes that directly measure, repair, and improve systems in different environments
- aerospace principles and concepts are studied using GPS, wind tunnel, and rocketry activities

### COMPUTER INTEGRATED MANUFACTURING

8406, 8407

BHS

Credit: 1.0 Applied Arts / CTE

Pathway: [Project Lead the Way](#) / Engineering - STEM, Arts, Design and Information Technology

*In 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

8414, 8415

MVHS

Credit: 1.0 Applied Arts / CTE

Pathway: [Project Lead the Way](#) / Engineering - STEM, Arts, Design and Information Technology

*In Engineering Design and Development, students will:*

- This **capstone course** allows students to design a solution to a technical problem of their choosing. As this is an engineering research course, students will work in teams to research, design, construct, and test a solution to an open-ended engineering problem.

### ENVIRONMENTAL SUSTAINABILITY

3080, 3081

BHS

Credit: 1.0 Science

Recommended: Biology

Pathway: [Project Lead the Way](#) / Engineering - STEM, Arts, Design and Information Technology

*In Environmental Sustainability, students will:*

- investigate and design solutions to solve real-world challenges including: world food security, renewable energy, and clean drinking water
- apply scientific and technical knowledge using an engineering design process and have the opportunity to help solve global challenges by creating and testing solutions such as genetically engineered bacteria, producing fuel from plants, and designs for emergency water filtration in disaster areas

### INTRODUCTION TO ENGINEERING DESIGN

8400, 8401

BHS, MVHS

Credit: 1.0 Applied Arts / CTE

Pathway: [Project Lead the Way](#) / Engineering - STEM, Arts, Design and Information Technology

*In 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

8402, 8403

BHS, MVHS

Credit: 1.0 Applied Arts / CTE

Pathway: [Project Lead the Way](#) / Engineering - STEM, Arts, Design and Information Technology

*In 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 Required Courses

The following courses in **BOLD** are the required math/science courses that will guide students through a rigorous curriculum. Italicized courses are additional learning opportunities that we strongly recommend.

### STEM PROGRAM COURSE REQUIREMENTS CLASS OF 2023

Curriculum Focus	Minimum Required Credits	Course Name	Credits	Traditional Grade level
Science	4	<b>Pre-AP Geophysical Science and Pre-AP Biology</b>	1.0	9
		Pre-AP Chemistry	1.0	10
		<b>AP Biology or AP Environmental Science</b>	1.0	10,11,12
		<b>AP Chemistry Or AP Physics</b>	1.0	11, 12
		Other interest areas: Astronomy, Genetics, Anat and Phys, Thompson River, General Physics, Environmental Sci, Envir Sustainability		10-12
Math	4	<i>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)</i>		
		<u>AP Statistics Path</u>		
		<u>AP Calculus Path</u>		
		<b>Algebra 1/ Geometry</b> OR <b>Algebra 1/ Geometry</b>	1 or 2	9
		<b>* Geometry / Algebra 2</b> OR <b>* Geometry /Algebra 2</b>	1 or 2	10
		<b>Trigonometry</b> OR <b>Pre-Calculus</b>	1	11
		<b>Trigonometry / AP Statistics</b> OR <b>AP Calculus AB</b>	1 or 2	12
Math/Science	.5	<b>Senior Research</b>	.5	12
Language Arts	4	<b>English 9 or Pre-AP English 9</b>	1.0	9
		<b>English 10 or Pre-AP English 10</b>	1.0	10
		<b>English 11 or AP English Language</b>	1.0	11
		<b>English 12 or College Composition</b>	0.5	12
Social Studies	3	<b>Civics</b>	0.5	9
		<b>World Geography or AP Human Geography or World History</b>	1.0	10
		<b>Modern America or AP US History</b>	1.0	11
		<b>Economics</b>	0.5	12
Physical Education	1.0	<b>Health</b>	0.5	9
		<b>Fitness</b>	0.5	9
World Language	2	Spanish OR		
		French		
Career Pathways	1.5	<u>Project Lead the Way - Choices</u>		
		Intro to Engineering	1.0	9-12
		Principles of Engineering	1.0	10-12
		Computer Integrated Manufacturing	1.0	10-12
		Environmental Sustainability	1.0	10-12
		Robotics	.5	9-12
		<u>Business - Choices</u>		
		Web Design	0.5	9-12
		Computer Graphics	0.5	9-12
		Computer Applications	0.5	9-12
		Programing Concepts	0.5	9-12
		Advanced Computer Applications	0.5	10-12
		AP Computer Science Principles		
Fine Arts	1	Music		
		Art		
Career Pathways	2			

*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**

	<b>Freshman Year</b>	<b>Sophomore Year</b>	<b>Junior Year</b>	<b>Senior Year</b>
<b>1</b>	English 9 (1.0)	English 10 (1.0)	English 11 (1.0)	English 12 (1.0)
<b>2</b>	Math (1.0)	Math (1.0)	Math (1.0)	AP Math (1.0)
<b>3</b>	PreAP GeoPhys (1.0)	PreAP Chemistry (1.0)	AP Biological Req (1.0)	AP Physical Req (1.0)
<b>4</b>	PreAP Biology (1.0)	World (1.0)	Modern America (1.0)	Senior Research (0.5)/Econ
<b>5</b>	Civics (0.5)/	Speech (0.5)/		
<b>6</b>	Health (0.5)/Fitness (0.5)			
<b>7</b>				
<b>8</b>				

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

### **Technology - .50 credit**

Choose from: Web Design, Computer Applications, Programming Concepts, Computer Graphics, & AP Computer Science

### **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 an 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 Advanced Elective graduation requirement, students will receive a grade of S or U (pass/fail) for the semester, does not impact GPA.

#### **Time length**

- Internship: 1 semester, may be repeated for a second semester.

#### **Hours**

- Internship: 195 total hours at worksite per semester, approx. 11 hours/week

#### **Schedule**

- Students spend half day at school and the other half of the day at their internship site

### **Pathfinder Internship Application Process:**

1. **Attend the Work-Based Learning Information Night and Resume Workshop on January 15th, 2020.** View [flyer](#) for details. 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.
2. **Online Application:** Complete the [ONLINE APPLICATION](#) (including 2 letters of recommendation).
3. **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.
4. **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.thompsonschoools.org/WBL](http://www.thompsonschoools.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 experientials learning comprised of the following elements:

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

### 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, etc.

**Apprenticeships are competitive and employers make the final hiring decision.**

### Credits and Scheduling

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

#### **Time length**

- Apprenticeship: 2-4 years, depending on industry and credential. CareerWise is 3 years.

#### **Hours**

- Apprenticeship: min. 195 hours at worksite, 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 the Work-Based Learning Information Night and Resume Workshop in January/** View [flyer](#) for details. 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.
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. **The CareerWise Hiring Hub is open January 27th to April 17th. Complete your student profile NOW at [careerwisecolorado.org](http://careerwisecolorado.org).**
4. **Columbine Health Systems apprenticeships:** Columbine Health hires during spring semester and application information and materials will be posted on this page 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 a mandatory 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.thompsonschoools.org/WBL](http://www.thompsonschoools.org/WBL).

For more information about Career Wise please visit <https://www.careerwisecolorado.org/>

# Thompson Career Campus – Advanced Manufacturing & Design

## Computer-Aided Drafting, CNC Machining, Additive Manufacturing, Design & Maintenance

<b>YEAR 1</b> All coursework and course sequencing/credit to be determined by AIMS Community College	
<b>1<sup>st</sup> Semester – In Development</b>	<b>2<sup>nd</sup> Semester – In Development</b>
<b>YEAR 2</b> All coursework and course sequencing/credit to be determined by AIMS Community College	
<b>1<sup>st</sup> Semester – In Development</b>	<b>2<sup>nd</sup> Semester – In Development</b>
	Work Based Learning Internship/Apprenticeship

### 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) along with mastering hands-on skills using the lathe and milling machinery. Students will study and learn about additive manufacturing, advanced CAD/CAM, and about the theoretical and operational characteristics of CNC machining.

### 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.

### Student Outcomes

- explore concepts and introductory coursework in advanced manufacturing and the manufacturing production process
- receive instruction on using manufacturing power equipment systems, manufacturing maintenance, and manufacturing operations
- learn about design for manufacturing, industry, and enterprise
- learn about safety in the work place and will develop the most basic skills working using measurement tools, saws, drills, lathes and filing
- learn about additive manufacturing and 3D printing and how to use and apply a CAD/CAM model
- receive training in SolidWorks and blueprint reading

### Free College Credits

Students can earn free college credits while still in high school through our partnership with Aims Community College. After high school graduation, students can then go on to earn their AAS in Engineering Technology at Aims.

### High School Credits

**Year 1 – 1.5 High School credits per semester**

Fall – Applied Arts, Language Arts, Science  
Spring – Applied Arts, Language Arts, Math

**Year 2 – 1.5 High School credits per semester**

Fall – Applied Arts, Language Arts, Science  
Spring – Applied Arts, Language Arts, Career Pathway Elective

College Credit – In Development

### College Credit and Certifications –In Development

- College Credits – Exact coursework being developed
- OSHA 10
- Additive Manufacturing
- Solidworks
- Basic CAD
- AAS in Engineering Technology with continuing Ed. at AIMS

### For More Information

Please visit [www.thompsonschoools.org/CTE](http://www.thompsonschoools.org/CTE) or email [cte@thompsonschoools.org](mailto:cte@thompsonschoools.org)

# Thompson Career Campus - Construction Skilled Trades

## HVAC, Plumbing and Electrical

<b>YEAR 1</b> All coursework and course sequencing to be determined by Front Range Community College	
<b>1<sup>st</sup> Semester – In Development</b>	<b>2<sup>nd</sup> Semester – In Development</b>
<b>YEAR 2</b> All coursework and course sequencing to be determined by Front Range Community College	
<b>1<sup>st</sup> Semester – In Development</b>	<b>2<sup>nd</sup> Semester – In Development</b>
	Work Based Learning

### **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
- HVAC Technician - \$51,800
- Electrician Journeyman - \$45,700

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

### **Student Outcomes**

- learn about career readiness within the construction trades industry to include operating heavy machinery/equipment, blueprint reading, surveying and practical mechanics
- learn about the basics of welding including soldering and bronze metal work
- learn about the basics of electrical with 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
- explore and learn about airflow, air quality and air disturbing
- learn about compressor installation and maintenance, furnace ignition, and electrical hearing systems
- learn about the basics of manufacturing and the manufacturing process

### **Free College Credits**

Students can earn free college credits while still in high school through our partnership with Front Range Community College. After high school graduation, students can then go on to earn their AAS, as well as their Commercial Refrigeration Certificate, a Light Commercial AC Certificate and a residential AC and Heating Certificate, also with Front Range Community College.

### **High School Credits**

**Year 1 – 1.5 High School credits per semester**

Fall – Applied Arts, Language Arts, Science  
Spring – Applied Arts, Language Arts, Math

**Year 2 – 1.5 High School credits per semester**

Fall – Applied Arts, Language Arts, Science  
Spring – Applied Arts, Language Arts, Career Pathway Elective

### **College Credit and Certifications – In Development**

- College Credits – Exact coursework being developed
- OSHA 10, Plumbing, and Electrical
- AAS along with a Commercial Refrigeration Certificate, a Light Commercial Air Conditioning Certificate and a Residential Air Condition and Heating Certified can be completed with continuing education opportunities at Front Range Community College

### **For More Information**

Please visit [www.thompsonschoools.org/CTE](http://www.thompsonschoools.org/CTE) or email [cte@thompsonschoools.org](mailto:cte@thompsonschoools.org)

# **Thompson Career Campus – Health Sciences**

## **Certified Nursing Assistant, Medical Assistant, Phlebotomist**

<b>YEAR 1 All coursework and course sequencing/credit to be determined by Front Range Community</b>	
<b>1<sup>st</sup> Semester – In Development</b>	<b>2<sup>nd</sup> Semester – In Development</b>
<b>YEAR 2 All coursework and course sequencing/credit to be determined by Front Range Community</b>	
<b>1<sup>st</sup> Semester – In Development</b>	<b>2<sup>nd</sup> Semester – In Development</b>

### ***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 exams, implement billing best practices, deliver quality patient and residential care and how to draw and handle blood in a clinical setting.

### ***Career Information***

CO Average Entry Level Salary

Certified Nursing Assistant (CNA) - \$32,000

### ***Student Outcomes – Health Careers and Health Science Studies***

- learn about and practice the fundamental skills of becoming a nurse aid
- explore and learn beginning nursing skills, communication skills, personal care skills, safety, and emergency care issues
- become knowledgeable in the principles of infection and asepsis
- 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 issues, disorders, and practices
- 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
- 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

### ***Student Outcomes – The Basics of Phlebotomy***

- learn about the composition of blood, medical terminology, anatomy and physiology, the circulatory system, and the phlebotomists role in a clinical setting
- practice venipuncture techniques, collect blood and other specimens following all safety guidelines and procedures, and follow all lab safety protocols
- accurately collect blood by utilizing venipuncture techniques, capillary techniques, finger sticks, and heel sticks, participate in specimen collection, removal, and processing

### ***Free College Credits***

Students can earn free college credits while still in high school through our partnership with Front Range Community College. After high school graduation, students can then go on to earn their AAS in Medical Assisting at Front Range.

### ***Credits***

**Year 1 – 1.5 High School credits per semester**

Fall – Applied Arts, Science

Spring – Applied Arts, Science

**Year 2 – 1.5 High School credits per semester**

Fall – Applied Arts, Language Arts

Spring – Applied Arts, Language Arts, Career Pathway Elective

### ***College Credit and Certifications – In Development***

- College Credit – Exact coursework being developed
- Certified Nursing Assistant
- Phlebotomist

### ***For More Information***

Please visit [www.thompsonschoools.org/CTE](http://www.thompsonschoools.org/CTE) or email [cte@thompsonschoools.org](mailto:cte@thompsonschoools.org)

# ***Thompson Career Campus – Information Technology***

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

<b>YEAR 1</b> All coursework and course sequencing/credit to be determined by AIMS Community College	
<b>1<sup>st</sup> Semester – In Development</b>	<b>2<sup>nd</sup> Semester – In Development</b>
<b>YEAR 2</b> All coursework and course sequencing/credit to be determined by AIMS Community College	
<b>1<sup>st</sup> Semester – In Development</b>	<b>2<sup>nd</sup> Semester – In Development</b>
	Work Based Learning Internship/Apprenticeship

### ***Program Overview***

Students will explore a variety of IT industry-related coursework including software development (Microsoft, Apple and Google applications), 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

### ***Student Outcomes***

- understand the newest software applications through certification and coursework exploration in Apple, Microsoft, and Google
- understand the basics of integration, applications, support essentials, and working as a technician for apple, Microsoft, and Google companies
- learn about the fundamentals of cyber security including an overview of communication security such as remote access, email, the web, directory and/or file transfer, and wireless data
- understand how common network attacks occur
- learn about cryptography and the basic of organization and operational security
- understand the basics of computer forensics
- provide technical support as an IT customer service technician

### ***Free College Credits***

Students can earn free college credits while still in high school through our partnership with Aims Community College. After high school graduation, students can go on to earn UNIX and Network Analysis Certifications and their AAS in Computer Information Systems at Aims.

### ***Credits***

**Year 1 – 1.5 High School credits per semester**

Fall – Applied Arts, Language Arts, Science  
Spring – Applied Arts, Language Arts, Math

**Year 2 – 1.5 High School credits per semester**

Fall – Applied Arts, Language Arts, Math  
Spring – Applied Arts, Language Arts, Career Pathway Elective

### ***Certifications – In Development***

- Software Applications Certifications
- Cyber Security Certification

### ***For More Information***

Please visit [www.thompsonschoools.org/CTE](http://www.thompsonschoools.org/CTE) or email [cte@thompsonschoools.org](mailto:cte@thompsonschoools.org)

# ***Aims Community College - Career Academy Information***

## **Graphic Design – Loveland Campus**



### ***Certificates & Classes***

#### **Graphic Software & Applications Certificate**

<b>1<sup>st</sup> Semester</b>	<b>Credits</b>	<b>2<sup>nd</sup> Semester</b>	<b>Credits</b>
MGD 111 - Adobe Photoshop I	3	MGD 112 - Adobe Illustrator I	3
MGD 211 - Adobe Photoshop II	3	MGD 212 - Adobe Illustrator II	3

### ***Prerequisites***

- See your high school counselor to determine if this program is offered for your school and for eligibility criteria for participation in the program.
- Complete the Career Academy scholarship application packet as provided by your high school.
- Able to find transportation to and from classes at Aims Community College.

### ***Course Requirements***

- New students may start in the fall OR spring semester as slot availability allows.
- Attendance is mandatory - Course work is not easily made up or able to be recreated at home
  - Excused absences may be granted for extenuating and documented circumstances.
  - All missed dates must be made up per the syllabus requirements.
- Internet and computer access to take online tests, quizzes, and assignments.

**If a student fails a class, he/she may not continue in program/take the next class in the sequence.**

### ***Materials Needed***

- Textbooks and course materials will be supplied for Career Academy students at no charge.

### ***Course Information***

- The classes offer project-based, hands-on curriculum and creative design assignments.
- The skills learned in the classes for the Graphic Application Certificate are important skills for a successful career in the graphic design industry.
- All courses offered for the Graphic Applications Certificate count towards the Graphic Design Associates Degree at Aims. Therefore, if the certificates are completed and the student chooses to continue and earn that associate's degree, the student will have fewer courses to complete than students that begin the degree after high school.

### ***Career Path***

- Graphic designers: Graphic designers are visual communication experts who design many products, including logos, ads, brochures, and product packaging.
- Employment of graphic designers is expected to grow as fast as average for all occupations through the year 2018, as demand for graphic design continues to increase from advertisers, publishers, and computer design firms.

### ***Contact Information***

#### **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

### ***Certificates & Classes***

#### **Basic Animation Certificate**

<b>1<sup>st</sup> Semester</b>	<b>Credits</b>	<b>2<sup>nd</sup> Semester</b>	<b>Credits</b>
MGD 142 – Digital Animatics	3	MGD 119 – Maya I	3
MGD 152 – 2D Animation Production	3	MGD 219 – Maya II	3

### ***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***

<b>Career Academy Bridge Coordinator</b> Courtney Alvarado Xospa (970) 339-6542 courtney.alvaradoxospa@aims.edu	<b>Concurrent Enrollment Director</b> David Jones (970) 339-6659 david.jones@aims.edu	<b>Graphic Design Department Chair</b> Brian Dunning (970) 339-6479 brian.dunning@aims.edu
--	--	---

## Criminal Justice - Thompson Valley High School

### Classes

1 <sup>st</sup> Semester	Credit	2 <sup>nd</sup> Semester	Credit
CRJ 110 - Intro to Criminal Justice	3	CRJ 145 - Correctional Process	3
CRJ 125 - Policing Systems	3	CRJ 135 - Judicial Function	3

The Criminal Justice Program at Aims is committed to providing students with the highest quality of academic and experiential coursework while remaining sensitive and responsive to the educational needs of each student. The program creates collaborative opportunities through which each student is fully engaged with the acquisition of interdisciplinary knowledge of law and social justice, the development of professional judgment, a deeper understanding of the diverse identities of human beings, and ethical behaviors demanded by the multi-faceted fields of employment within criminal justice – to include corrections, juvenile justice, law enforcement, forensics, social services, victim advocacy, and the private sector.

### 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.

### Classes

1 <sup>st</sup> Semester	Credit	2 <sup>nd</sup> Semester	Credit
FST 102 - Principles of Emergency Services	3	FST 103 - Fire Behavior	3
FST 105 - Building Construction	3	FST 106 - Fire Prevention	3

### 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.

## Med Prep – Loveland Campus

### **Certificates & Classes**

Med Prep Certificate, Intro to Allied Health Certificate, Nurse Aide Certificate, American Heart Association Basic Life Support & First Aid Certificates			
1 <sup>st</sup> Semester	Credits	2 <sup>nd</sup> Semester	Credits
HPR 111- Success Seminar	1	NUA 101 - Nurse Aide Health Care Skills	4
HPR 178- Medical Terminology	3	NUA 170 - Nurse Aide Clinical Rotation	1
HWE 122 - Responding to Emergencies (Includes American Heart Association Basic Life Support CPR & First Aid Certifications)	2	HPR 104 - Health Career Options & Readiness	1

\*Total of 5 certificates.

### **Prerequisites**

- See your high school counselor to determine if this program is offered for your school and for eligibility criteria for participation in the program.
- Complete the Career Academy application packet as provided by your high school counselor.
- **Document a current minimum score of ONE of the following tests:**
  - Accuplacer Reading score of 62
  - ACT Reading score of 17
  - SAT Verbal score (taken before 3/1/16) of 430
  - SAT Evidence-Based Reading & Writing score (taken after 3/1/16) of 470
- Able to find transportation to and from classes at Aims Community College.
- **New students may start spring semester as slot availability allows.**

### **Nurse Aide Course Requirements**

- Attendance is mandatory - 100% attendance is expected.
- Students must notify the instructor in advance if they will be late, or absent. Failure to follow this policy may result in the student's inability to make up any classwork including tests, and quizzes.
- **Any absences exceeding six hours will result in the failure of the course.**
- Any absence due to disruptive behavior in the academic setting will be counted towards the absence policy. The student will receive a "zero" on any work administered that day.
- 30 clinical hours will be scheduled outside of regular class hours near the end of the semester. Make-up days for clinical attendance will not be permitted.
- Comply with dress code requirements.
- Complete the HireRight **background check** and **drug screen** with no disqualifiers (during class).
- Obtain the following Immunizations:
  - 2 MMR or Titer and Hepatitis B series or Titer.
  - 2 TB Skin Tests – Must be current (received within nine months of the start of clinical).
- **Attain a grade of 75% or higher in NUA 101 or the student will not be allowed to take NUA 170.**
- **Attain a grade of a "C" or higher in all other classes or the student will not be allowed to progress on in the program.**

### **Materials Needed**

- Tuition, textbooks, scrubs, blood pressure cuffs, stethoscopes, background checks, testing costs, clinical ID badge, TB Tests, certifications and course materials will be supplied for Career Academy students at no charge.
- White tennis shoes and a watch with a second hand will need to be purchased by the student.

### **State Board of Nursing Certification**

- To be eligible to apply for the State of Colorado Nurse Aide Certification, the student must earn an "S" grade in NUA 170 and 75% or above in NUA 101.
- Students will be required to provide documentation of residency and be at least 16 years of age to test.

### **Contact Information**

#### **Career Academy Bridge Coordinator**

Courtney Alvarado Xospa  
(970) 339-6542  
courtney.alvaradoxospa@aims.edu

#### **Concurrent Enrollment Program Director**

David Jones  
(970) 339-6659  
david.jones@aims.edu

#### **Med Prep Coordinator**

Kendra Merriott  
(970) 339-6218  
kendra.merriott@aims.edu

# FRONT RANGE COMMUNITY COLLEGE - LARIMER CAMPUS COLLEGE NOW OPPORTUNITIES



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](http://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 2020-SPRING 2021

College Now - High School Select is a concurrent enrollment program that provides high school students with the opportunity to take FRCC classes at their home high school for college credit. Tuition is covered by the school district, but students may be responsible for textbooks and/or applicable fees.

Class offerings are determined in partnership with the school district, FRCC, and each individual high school. Students should talk with their high school counselor about what course offerings may be available at their high school.

Visit [www.frontrange.edu/lc-collegenow/programs/high-school-select/available-classes](http://www.frontrange.edu/lc-collegenow/programs/high-school-select/available-classes) to see which courses are available at your school.



## CAMPUS SELECT PROGRAM, FALL 2020-SPRING 2021

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 2020-SPRING 2021

### Available Programs:

- Automotive Technology & Service
- Medical Careers Exploration
- Welding & Metal Fabrication



- Take classes with other high school students on campus at FRCC (exceptions noted).
- Programs emphasize hands-on learning (field trips, labs, projects, job shadows, community service, and/or internships) in addition to classroom activities. *There is a student fee of \$100 or less in each program.*
- Bus transportation is provided to/from FRCC (exceptions noted). *Students are responsible for transportation when class is held off-campus, which can be frequently in some programs.*
- Schedule: This is a year-long program. Classes are held Monday – Friday, 8am to 10am or 12:30pm to 2:30pm.
- All programs offer optional college credit and students can earn FRCC and industry certificates in most programs.
- Recommended preparation: 1) history of good attendance 2) history of turning in assignments 3) willingness to participate in all assignments and activities 4) willingness to seek help and communicate with faculty.

### 1. Automotive Technology & Service

Whether you want to become a professional automotive service technician or are just interested in how vehicles operate, this program is a great place for hands-on training in the automotive field! Topics explored include electrical, ignition, and fuel systems, engines, starting and charging, brakes, suspension and steering, and tires. This program is made up of a mix of lecture, classroom activities, hands-on training in the state-of-the-art automotive shop, mock-up units, guest speakers, and field trips. Students spend one semester “under the car” and another semester “under the hood,” with a different instructor each semester.

#### High School Credit:

This program may earn high school academic credit and/or fulfill high school graduation requirements. Check with your high school counselor for more information.

#### FRCC College Credit:

Students can earn optional FRCC college credit through our concurrent enrollment option. Check with your counselor for more information about enrollment requirements. Students can complete the **FRCC General Automotive Repair & Maintenance Certificate** during this program. College courses also apply towards a variety of additional certificate and degree programs under the Automotive Technology Program at FRCC.

#### Group 1:

FRCC Course	Semester	Testing Requirements, Course Prerequisites	Total Credits
ASE 101 – Auto Shop Orientation (2 credits)	Fall	none	Fall: 6 credits
ASE 110 - Brakes I (2 credits)	Fall	Pre-requisite of ASE 101	
ASE 140 - Steering & Suspension (2 credits)	Fall	Pre-requisite of ASE 101	
ASE 120 – Basic Auto Electricity (2 credits)	Spring	Pre-requisite of ASE 101	Spring: 4 credits
ASE 130 - General Engine Diagnosis (2 credits)	Spring	Pre-requisite of ASE 101	
			<b>Total: 10 credits</b>

#### Group 2:

FRCC Course	Semester	Testing Requirements, Course Prerequisites	Total Credits
ASE 101 – Auto Shop Orientation (2 credits)	Fall	none	Fall: 6 credits
ASE 120 – Basic Auto Electricity (2 credits)	Fall	Pre-requisite of ASE 101	
ASE 130 - General Engine Diagnosis (2 credits)	Fall	Pre-requisite of ASE 101	
ASE 140 - Steering & Suspension (2 credits)	Spring	Pre-requisite of ASE 101	Spring: 4 credits
ASE 110 - Brakes I (2 credits)	Spring	Pre-requisite of ASE 101	
			<b>Total: 10 credits</b>

## CAREER PATHWAYS PROGRAM, FALL 2020-SPRING 2021

### Medical Careers Exploration

Are you interested in a fulfilling career in the health care field? In this program, students build a foundation in science and medicine and are exposed to a wide variety of health careers, medical professionals, and medical facilities. Students explore anatomy and physiology, medical terminology, safe practices in the clinical setting, ethics in health care, and fundamental nurse aide skills. During the year, students can earn certificates in 1) Adult First Aid/CPR 2) Infant and Child First Aid/CPR and 3) Dementia Care. Curriculum also includes basic nurse aide (CNA) training, culminating, for qualified students, in a three-day clinical experience working with real patients. This program is made up of classroom activities, guest speakers, practice in the nursing lab, field trips, community service, and clinical experiences.

#### High School Credit:

This program may earn high school academic credit and/or fulfill high school graduation requirements. Check with your high school counselor for more information.

#### FRCC College Credit:

Students can earn *optional* FRCC college credit through our concurrent enrollment option. Check with your counselor for more information about enrollment requirements. Students can complete the **FRCC Nurse Aide Certificate** during this program, preparing them to take the State Certification Exam to become a Certified Nurse Aide.

FRCC Course	Semester	Testing Requirements, Course Prerequisites	Total Credits
NUA 101 – Certified Nurse Aide Health Care Skills (4 credits)	Fall	Complete CCR 092 or test into CCR 093 or higher or (new) SAT Verbal 470+	Fall: 5 Credits
NUA 170 – Nurse Assistant Clinical Experience (1 credit)	Fall	None	
HPR 208 – Advanced Medical Terminology (2 credit)	Spring	None	Spring: 2 credits
			<b>Total: 7 credits</b>

### 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 lecture, hands-on training in the FRCC Welding Shop, group projects, guest speakers, and field trips.

#### High School Credit:

This program may earn academic credit and/or fulfill high school graduation requirements. Check with your high school counselor for more information.

#### FRCC College Credit:

Students can earn *optional* FRCC college credit through our concurrent enrollment option. Check with your counselor for more information about enrollment requirements. Students can earn the **FRCC Welding Fundamentals Certificate and an FRCC Oxyacetylene Welding Certificate** during this program. College courses also apply towards a variety of additional degree and certificate programs under the Welding Program at FRCC.

FRCC Course	Semester	Testing Requirements, Course Prerequisites	Total Credits
WEL 100 - Safety for Welders (1 credit)	Fall	None	Fall: 5 credits
WEL 101-Allied Cutting Processes (4 credits)	Fall	Prerequisite or Co-requisite: WEL 100	
WEL 103 – Basic Shielded Metal Arc I (4 credits)	Spring	Prerequisite or Co-requisite: WEL 100	Spring: 8 credits
WEL 125 – Introduction to Gas Metal Arc Welding (4 credits)	Spring	Prerequisite or Co-requisite: WEL 100	
			<b>Total: 13 credits</b>

### ASCENT Program



**Definition of ASCENT:** ASCENT stands for **A**ccelerating **S**tudents through **C**oncurrent Enrollment. Students who have completed at least 12 credit hours of postsecondary course prior to completion of his/her 12th grade year may be eligible for the ASCENT Program. They remain students in their Local Education Provider (LEP) for one year following their 12th grade year, and the LEP receives ASCENT specific per-pupil state funding that it uses to pay their college tuition at the resident community college rate. Students receive their high-school diplomas at the end of their ASCENT year.

**What is ASCENT:** Expanding pathways from high school to postsecondary opportunities is essential to increasing the number of postsecondary degrees earned by Coloradans and decreasing high school dropout rates. ASCENT provides an accelerated opportunity for students to earn a postsecondary credential, helping students develop the knowledge, skills and abilities necessary to be postsecondary and workforce ready.

#### **Student Eligibility:**

- Complete, or be on schedule to complete at least 12 credit hours (semester hours or equivalent) of transcript postsecondary course work prior to the completion of his or her 12th grade year
- Eligible 12th graders may take basic skills courses if allowed by their LEP, but basic skills coursework does not count toward the 12 credit hours of college coursework required for ASCENT eligibility.
- **ASCENT students must be qualified at the college level for the courses in their degree or certificate programs, and must not need remediation in their selected pathway/degree program. This includes supplemental academic instruction (SAI) courses**
- Have been selected for participation in the ASCENT program by his or her high school principal or equivalent school administrator
- Have satisfied the minimum Recommended for the course(s) before his or her enrollment in the course(s), and
- Have not participated in the ASCENT program in previous years
- Students are not to be counted as high school graduates or granted a high school diploma until they complete the ASCENT program
- Eligible students may only participate in the ASCENT program for 1 academic year
- Because submission of a request does not guarantee an ASCENT slot, LEPs should notify ASCENT-eligible students to continue to pursue any additional postsecondary opportunities that they would normally. Students should be advised to:
  - Research career and/or military opportunities;
  - Apply to any postsecondary institutions/programs they are interested in;
  - Apply for any scholarships they may be eligible for, and
  - Complete the FAFSA

**Tuition:** Thompson School District pays for the student's tuition. Books and other fees is the responsibility of the student. Students are eligible to apply for COF stipend.

**Attendance:** ASCENT program participants are classified as either full-time or part-time depending on the number of credit hours of college courses they are attending on October 1 of their ASCENT year.

- Students enrolled in 12 or more credit hours will be considered full-time students, and their LEPs will receive fulltime funding.
- Students enrolled in 3 credit hours, but fewer than 12 credit hours will be considered part-time students, and their LEPs will receive part-time funding.
- It is important to note that the ASCENT program is geared toward students who have the goal of attaining a college credential. Participants should be encouraged to enroll in as many courses as they can successfully complete in order to earn their degree or certificate.
- Attendance needs to be collected for ASCENT students as part of the October count. If students are not attending any classes at the LEP, students must get verification of attendance from their instructors at each course at the IHE during the October count period. An attendance form is sent out to ASCENT students late September for the October count window. This **has** to be filled out by their instructors for funding, it is the student's responsibility.

**Graduation and Diploma:** The student can still walk with their graduating class. The diploma will not be awarded until after their ASCENT year. The diploma must be dated for the student's 5<sup>th</sup> year, end of ASCENT year.