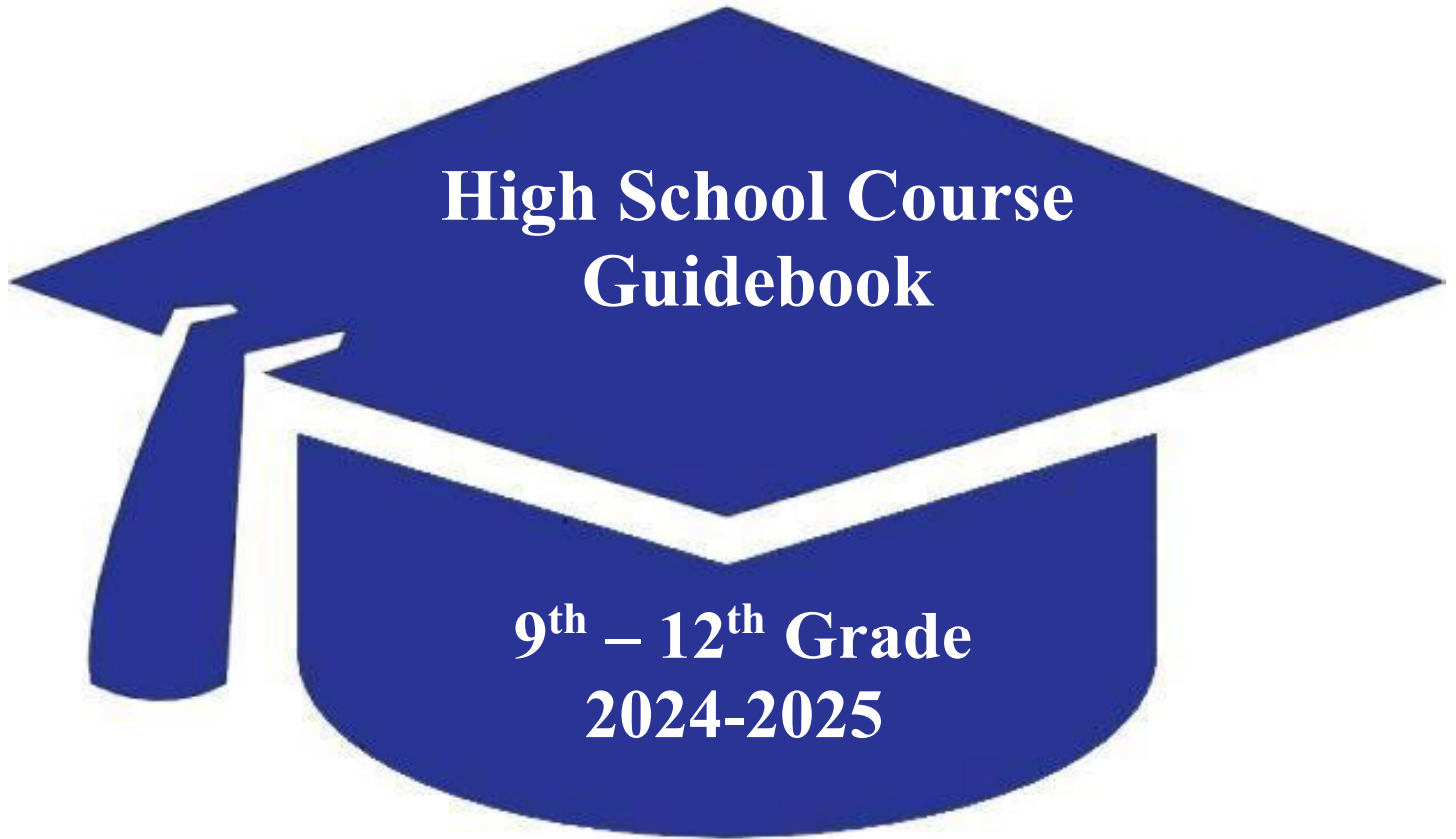


Thompson School District



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



High School Information



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

CEEB CODE FOR BHS
060-095



Harold Ferguson High School (FHS)
1811 W 15th Street
Loveland, CO 80538
Principal: Jason Germain
970-613-5300
Counseling Office: 970-613-5305
tsd.org/ferguson

CEEB CODE FOR FHS
060-946



Loveland High School (LHS)
930 W 29th Street
Loveland, CO 80538
Principal: Michael James
970-613-5200
Counseling Office: 970-613-5203
<https://www.thompsonschoools.org/loveland>

CEEB CODE FOR LHS
060-950



Mountain View High School
3500 Mountain Lion Drive
Loveland, CO 80537
Principal: Jane Harmon
970-613-7800
Counseling Office: 970-613-7823
tsd.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
tsd.org/thompsonvalley

CEEB CODE FOR TVHS
060-952

Course Location

The sites listed with the courses are the sites(s) where the course is offered. Transportation may be provided.

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 (7)(e). BOE Policy JQ

In accordance with Board Policy AC, Thompson School District does not discriminate on the basis of a person's actual or perceived characteristics such as, but not limited to, race, color, sex, sexual orientation, gender, gender identity, gender expression, religion, creed, national origin, ancestry, immigration/citizenship status, age, marital status, conditions related to pregnancy or childbirth, genetic information, mental or physical disability, need for special education services, or any other protected class in conformance with federal, state, and local law in admission or access to, or treatment and employment in, its programs and activities. A lack of English skills will not be a barrier to admission or participation.

The following person/people has/have been designated to handle inquiries regarding the nondiscrimination policies:

Title IX/Employee ADA/Section 504/EEO Compliance Officer

Director of Human Resources

800 South Taft Avenue

Loveland, Colorado 80537

(970) 613-5009

nondiscrimination@tsd.org

Student ADA/Section 504 Compliance Officer

Executive Director of Student Support Services

800 South Taft Avenue

Loveland, Colorado 80537

(970) 613-5092

nondiscrimination@tsd.org

De acuerdo con la política AC del consejo educativo, el Distrito Escolar de Thompson no discrimina sobre la base de características verdaderas o percibidas de una persona, tal como, pero sin limitación a, la raza, el color de piel, el sexo, la orientación sexual, la identidad de género, la expresión de género, la religión, el credo, el país de origen, la ascendencia, el estado de inmigración/ciudadanía, la edad, el estado civil, condiciones relacionadas con el embarazo o el parto, la información genética, una discapacidad mental o física, la necesidad para servicios de educación especial o cualquier otra clase protegida bajo ley federal, estatal y local al brindar admisión o acceso a, o trato o empleo en los programas y actividades del distrito escolar. La falta de competencia en inglés no será una barrera a la admisión o la participación.

Las siguientes personas han sido encargadas de recibir cualquier pregunta relacionada con las políticas de no discriminación:

El/la responsable del cumplimiento de Título IX/ADA para empleados/Sección 504/EEO

Director de Recursos Humanos

800 South Taft Avenue

Loveland, CO 80537

(970)613-5009

nondiscrimination@tsd.org

El/la responsable del cumplimiento de ADA/Sección 504 para estudiantes

Director ejecutivo de Servicios de Apoyo al Estudiante

800 South Taft Avenue

Loveland, CO 80537

(970)613-5092

nondiscrimination@tsd.org

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District Graduation Requirements Classes of 2025-2028

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

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

Diploma – A student who fails to earn the 24 credits needed to receive a Thompson School District Diploma and did not apply for a 20 credit Thompson School District Diploma before February 1 of their senior year, may be considered for the 20 credit diploma. For more information, please visit [Thompson School District Graduation Policy](#)

Post-Secondary College Course – Highly Recommended

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

Capstone

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

CLASS of 2025 and Beyond
TSD Procedure for choosing Valedictorian and Salutatorian

To determine valedictorian and salutatorian, the high school of attendance will use the following process:

1. Students must be enrolled in their high school and maintain a full-time schedule throughout their senior year.
2. All grades, including those in weighted classes, initially will not carry weight (in other words we start with a student's unweighted cumulative GPA, all A's will be worth 4 points, B's worth 3 points, etc.).
3. At the end of the second semester of the senior year, 0.025 will be added to each student's cumulative grade point average for every 0.5 high school credit weighted class that is transcribed for which the student received a passing grade of C or higher.
 1. Example: If the student has passed 2 semesters of AP English Lang & Comp, 2 semesters of AP Calc AB, and 1 semester of College Composition 121 at the end of senior year, .125 (5 semesters x .025) will be added to that student's unweighted cumulative grade point average.
4. A student may take weighted classes at any high school in the district or college courses that have been preapproved to qualify for our concurrent enrollment program and receive the .025 weighted credit per 3 credit college course.
 - 1 credit college course = .008
 - 2 credit college course = .017
 - 3 credit college course = .025
 - 4 credit college course = .033
 - 5 credit college course = .042
 - 6 credit college course = .050
5. After the addition of weighted points, a student will be named valedictorian or salutatorian if he/she has the highest GPA in his/her class, based on courses taken at their high school of attendance.
 1. If another student, whose GPA for courses taken at their high school of attendance is lower than that of student #1, surpasses student #1's GPA due to weighted classes taken at another school outside of the student's high school of attendance (i.e high school or college), that student will also be named valedictorian or salutatorian.
 2. example(multiple students)

*Weighted credit=Advanced Placement, International Baccalaureate, or College Credit courses

What does this accomplish?

1. A student is not penalized for taking more classes than someone with "identical" grades who has taken fewer classes.
2. It retains the incentive for taking weighted classes, i.e. classes that are more challenging and academically rigorous.
3. It retains the emphasis on academic excellence.
4. It is a more equitable method for determining Valedictorian and Salutatorian, as it does not penalize students who do not have transportation available to them to take courses at other schools.

Career and College Readiness Demonstrations

Source of information: [Colorado Dept. of Higher Education](#)

College & Career Ready Demonstrations

Students must complete an item from the menu of career and college readiness demonstrations in both English Language Arts and Mathematics (subject to update by the state).

	Reading, Writing & Communication	Mathematics
ACT	Score of 18 or better in ELA	Score of 19 or better in Math
ACT WorkKeys	Score of 3 or better (Bronze level) on all 3 sections - <i>covers both</i>	
ACCUPLACER	Score of 62 or better on Reading Comprehension OR Score of 70 or better on Sentence Skills	Score of 61 or better on Elementary Algebra
Next Generation ACCUPLACER	Score of 241 or better on Reading OR Score of 236 or better on Writing	Score of 255 or better on Arithmetic (AR) OR Score of 230 or better on Quantitative Reasons, Algebra and Statistics (QAS)
Advanced Placement	Score of 2 or better on ANY AP exam - <i>covers both *AP exams must be taken prior to senior year to have score by graduation</i>	
ASVAB	Score of 31 or better on AFQT - <i>covers both</i>	
Concurrent Enrollment	Grade of C or better in ANY college course (1000 level or higher) - <i>covers both *students must enroll in college credit for High School Select courses</i>	
IB	Score of 4 or better on ANY IB exam - <i>covers both *IB exams must be taken prior to senior year to have score by graduation</i>	
SAT	Score of 470 or better in Reading, Writing and Communicating	Score of 500 or better in Math
Capstone	District Capstone with grade of D or higher	District Capstone with grade of D or higher
Industry Certification	Receipt of the industry certificate and approval by the district designated team	

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

Honors 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.

Pre-AP features grade-level instruction intended to give all students the opportunity for growth.

Pre-AP offers a focused framework, instructional support, model lessons, classroom assessments, and an optional final exam.

Pre-AP focuses on skills that students will need to succeed in AP courses, college, and careers.

Pre-AP is back-mapped from AP courses, with input from teachers in middle school, high school, and colleges. Most students take Pre-AP in grades 9 and 10, though some schools offer these high-school level courses in middle school.

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

For more information on the Advanced Placement Program, please visit www.CollegeBoard.com

WEIGHTED GRADES

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

Weighted Grades/Assessment System

A = 5
B = 4
C = 3
D = 1
F = 0

Criteria for Weighted Grade Status

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

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

Cross ref.: IKA, Grading/Reporting Systems

Please visit this link for the most current policy

GPA and Test Score Ranges of Admitted First-Time Freshmen - Fall 2021 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](https://coadmissiontool.org) for more information on admission criteria: coadmissiontool.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	2.91 - 3.79	17 - 23	910 - 1130
Colorado Mesa University	3.31 - 3.97	20 - 26	1032 - 1237
Colorado School of Mines	3.81 - 4.00**	30 - 34	1340 - 1480
Colorado State University Fort Collins	3.40 - 4.00	24 - 30	1120 - 1320
Colorado State University Global	2.40 - 3.17	16 - 18	1205 - 1360
Colorado State University Pueblo	2.95 - 3.88	18 - 25	940 - 1150
Fort Lewis College	3.04 - 3.88	17 - 25	1010 - 1230
Metropolitan State University of Denver	2.90 - 3.65	19 - 26	940 - 1180
University of Colorado Boulder	3.59 - 4.00	27 - 33	1200 - 1410
University of Colorado Colorado Springs	3.16 - 3.96	20 - 28	1030 - 1250
University of Colorado Denver	3.30 - 4.00	22 - 29	1070 - 1290
University of Northern Colorado	3.24 - 3.98	20 - 27	1010 - 1230
Western Colorado University	3.17 - 3.95	21 - 27	1040 - 1250

~ It is optional to submit SAT/ACT test scores to Colorado's public four-year colleges and universities. [Click here](#) for more information.

* SAT totals = Evidence Based Reading & Writing + Math subscores. It does NOT include the Essay or Written Component score. ** Colorado School of Mines uses unweighted GPAs only in making admission decisions. Colorado Community Colleges are open admission and do not have admission standard requirements.

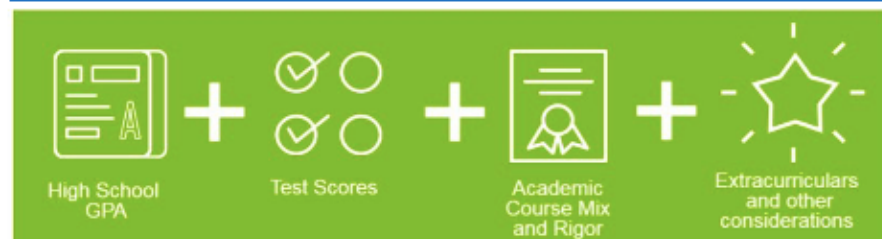
For additional information including transfer admissions, please visit: <https://higher.ed.colorado.gov/students/preparing-for-college/admissions-eligibility>

Guidelines for College Admissions

Freshman admission standards apply to students who:

Visit the online admission standards tool: coadmissionstool.org

- * 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.



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

- > **High School GPA** (if your high school provides a weighted GPA on your transcript, it is usually considered in the admission process)
- > **Test Scores—SAT or ACT** - Optional to submit (Taking the SAT? Visit the [Khan Academy](https://www.khanacademy.org/sat) to prep) - 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.)

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
TOTAL	17 Units

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.

Visit the CDHE Admission Web Page for More Information: <https://highered.colorado.gov/students/preparing-for-college/admissions-eligibility>

TSD Career & College Readiness

CTE = Career & Technical Education

- Focuses on Postsecondary and Workforce Readiness (PWR)
- Builds technical and essential skills
- Provides opportunities for work-based learning and career exploration
- Prepares students, including special populations to meet challenges of the workforce, economic development, and emerging occupations
- Ensures a seamless transition to further your education and/or enter the workforce
- CTE is for EVERYONE!

CTSOs = Career & Technical Student Organizations

- Students who take CTE courses are eligible and encouraged to join a CTSO
- CTSOs provide opportunities for leadership, competition, network building, community service, and real-world application of knowledge and skills
- Our CTSOs are:
 - FBLA – Future Business Leaders of America
 - DECA – Marketing organization
 - FCCLA – Family, Career, and Community Leaders of America
 - FFA – Future Farmers of America
 - SkillsUSA – Skilled Trades organization
 - TSA – Technology Student Association

CTE Pathways in this Course Guidebook:

- Recommended course sequence from 9th to 12th grade
- Includes opportunities to earn free college credit and industry credentials/certifications

CTE programs are in all of our high schools and at the Thompson Career Campus

- Use the CTE program chart to identify which programs are offered at your home high school and pathway programs at other high schools and the TCC

WBL = Work-Based Learning

- Provides a continuum of real-world opportunities for students at all levels
- Presents opportunities to explore career paths and gain valuable work experience
- Builds career and college readiness skills
- Connects students to the community in meaningful ways

Types of Work-Based Learning

Learning About Work:

- Career Tours & Events
- Job Shadows
- Informational Interviews
- Career Fairs

Learning Through Work:

- Internships*
- Pre-Apprenticeships
- Credit-for-work experiences*
- Pre-apprenticeship

Learning At Work:

- Apprenticeships*

*Students in these opportunities can earn elective credit

XELLO Work-Based Learning Network

- Regional network shared by neighboring school district
- TSD students access XELLO through Clever
- Students can search and apply for WBL opportunities based on type, location, career cluster and paid vs. unpaid

Career & College Readiness Team

website: tsd.org/academics/career-college-readiness

email: careerandcollege@tsd.org

- **Andy Stevens** Director of Career & Technical Education
- **Tyler Schlagel** Career and College Coordinator
- **Susan Scott** Business Community Coordinator
- **Tierney Lain** Work-Based Learning Specialist
- **Afton Valerio** Career & College Administrative Assistant

ICAP = Individual Career and Academic Plan

- Guides students and families in the exploration of career, academic and postsecondary opportunities
- Develops awareness, knowledge, attitudes and skills to create meaningful pathways to Postsecondary and Workforce Readiness (PWR)

Areas of ICAP:

- Self-Awareness
- Career Awareness
- Postsecondary Aspirations
- Postsecondary Options
- Environmental Expectations
- Academic Planning

XELLO tools for ICAP

- Career and College planning and exploration
- Interactive Lessons for PWR
- Career inventories, personality, skills and learning styles assessments
- College applications, transcripts, and letters of recommendation
- Digital portfolio

TSD Career & College Readiness

Concurrent Enrollment / College Credit Opportunities

TSD students can earn TUITION FREE college credit while in high school either on their high school campus or on a college campus through partnerships with Front Range Community College, Aims Community College, and CU Denver. We also offer post-graduation college opportunities through the ASCENT and TREP programs.

All courses are college-level and students are expected to meet college level expectations.

HIGH SCHOOL SELECT

Students take classes at their home high school for both high school and college credit. Classes are often taught by home high school teachers who hold a master's degree and/or are approved as a CTE educator.

- LOCATION: At high school
- COST: Tuition paid by TSD, student may be responsible for cost of textbooks, fees and/or course materials
- COLLEGES: FRCC, Aims

CAMPUS SELECT

Students take classes on a college campus, with college students, for both high school and college credit. Classes are taught by college instructors.

- LOCATION: At college campus
- COST: Tuition paid by TSD, student may be responsible for cost of textbooks, fees and/or course materials
- COLLEGES: FRCC, Aims

CU SUCCEED GOLD

Students earn college credits from University of Colorado Denver through high school classes. Courses have "guaranteed transfer" within public Colorado colleges, with the potential to transfer out of state.

- LOCATION: At high school
- COST: Tuition paid by TSD, student may be responsible for cost of textbooks, fees and/or course materials
- COLLEGES: CU Denver

ADVANCED PLACEMENT (AP)

Students take college-level classes in high school and sit for AP exams. Students earning a minimum score (usually 4 or 5) on the exam can either receive elective credit or course replacement credit depending on the college or university policy. Classes are taught by college instructors.

- LOCATION: At high school
- COST: Student responsible for exam fee of \$95 per exam. Subject to change.
- COLLEGES: Review AP policies for the schools you wish to attend.

POST-GRADUATION TUITION-FREE COLLEGE CREDIT

ASCENT

"Accelerating Students through Concurrent Enrollment"

5th year program offered to TSD graduates. After completing high school, eligible seniors can take college courses for one year. Students may walk in the graduation ceremony with their class but will not receive their diploma until end of their ASCENT year, which will be the date on their diploma.

- LOCATION: At college campus
- COST: Tuition, books and fees paid by TSD, Student pays for supplies.
- COLLEGES: FRCC, Aims
- ELIGIBILITY:
 - Full time student status senior year
 - 9 college credits earned during high school
 - 2.0 GPA during high school
 - Full-time status required in semester 1

TREP

"Teacher Recruitment Education & Preparation"

5th and 6th year program offered to TSD graduates wishing to pursue an educator career pathway. Students may walk in the graduation ceremony but will not receive their diploma until end of the TREP program, which lasts up to 2 years; exit from program will be date on diploma.

- LOCATION: At college campus
- COST: Tuition, books and fees paid by TSD.
- COLLEGES: FRCC, Aims
- ELIGIBILITY:
 - Must choose education major and have an education ICAP goal
 - Successfully complete 1 or more college courses from the TREP menu during senior year
 - Other ASCENT rules apply, except the college 9 credits requirement

TSD Career & College Readiness

Career & Technical Education (CTE) Programs/Pathways

	BHS	FHS	LHS	MVHS	TVHS	TCC
CTE PROGRAM / CAREER CLUSTER						
<u>AGRICULTURAL SCIENCE</u>						
Agricultural Science	✓				✓	
<u>BUSINESS AND MARKETING</u>						
Business Management & Administration, Finance and Entrepreneurship	✓	✓	✓	✓	✓	
Business Information Technology	✓		✓	✓	✓	
Computer & Digital Technologies – Computer Science, Programming, Network Systems & Security	✓		✓	✓	✓	✓
Marketing	✓	✓	✓	✓	✓	
<u>FAMILY and CONSUMER SCIENCE</u>						
Education and Training			✓	✓	✓	
Hospitality and Food Production	✓		✓	✓	✓	
Human Services			✓	✓	✓	
Interior and Fashion Design			✓	✓	✓	
<u>HEALTH SCIENCE</u>						
Health Science						✓
<u>INDUSTRIAL TECHNOLOGY</u>						
Architecture & Construction	✓		✓	✓	✓	✓
Engineering Technology – Project Lead the Way, Robotics (LHS)	✓		✓	✓		
Manufacturing			✓		✓	✓
Transportation/Automotive					✓	
Welding					✓	
<u>MEDIA ARTS</u>						
Broadcasting, Journalism and Video Production	✓		✓			

CTE PATHWAY PROGRAMS OPEN TO ALL TSD STUDENTS

- College credit available in most programs through FRCC, Aims, or another higher education partner
- Industry Certifications
- Bussing may be available to TCC. Students must provide own transportation for other programs/locations.
- Additional application/registration process required

Thompson Career Campus

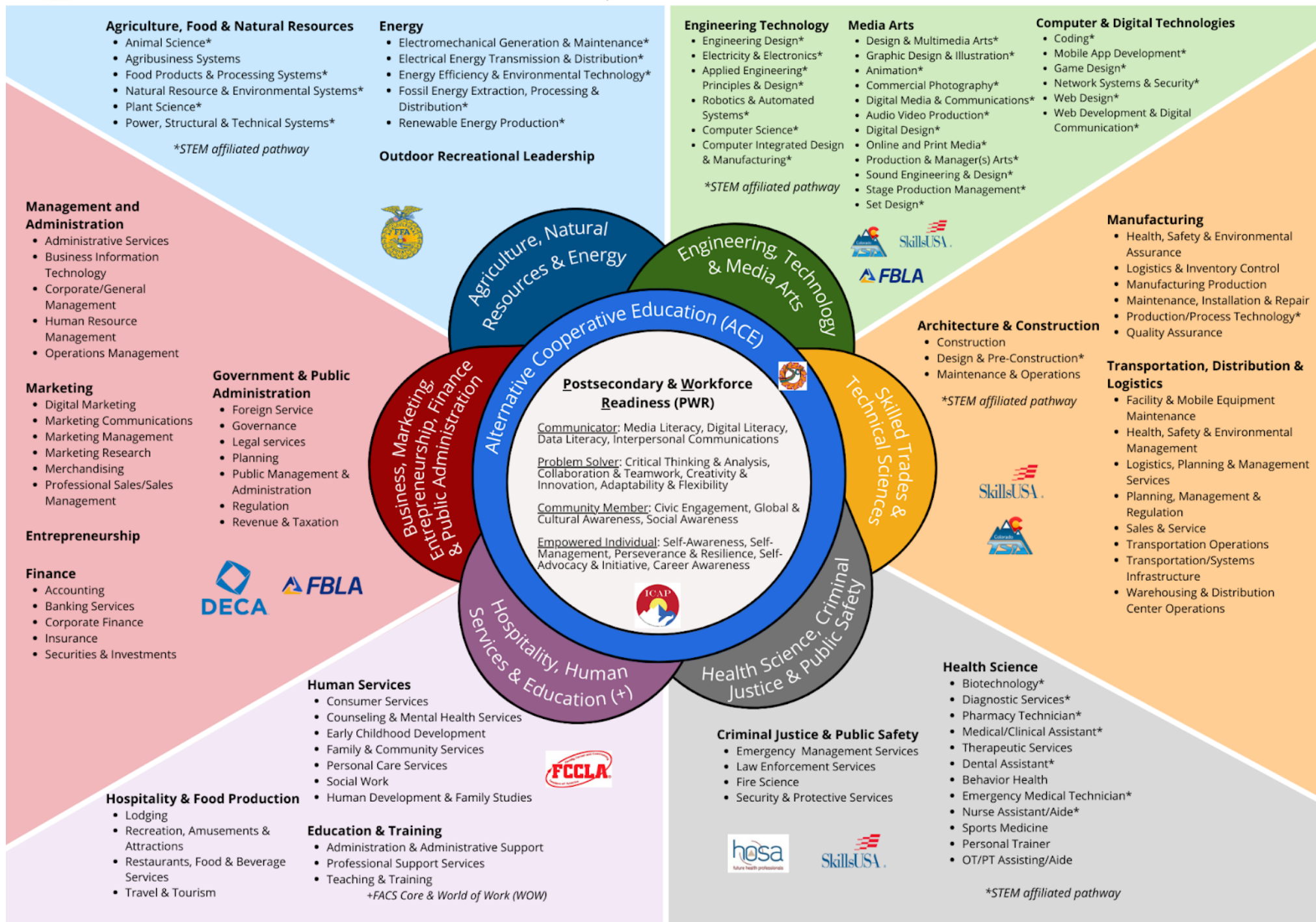
- Construction Skilled Trades
- Geographical Information Systems (GIS)
- Health Sciences
- IT/Cybersecurity
- Design and Manufacturing
- Applications of AI course

Thompson Valley High School

- Automotive
- Welding

Loveland High School

- Teacher Cadet



Career Pathway: Agricultural Science

Colorado Career Cluster - Agriculture, Natural Resources & Energy

The Agricultural Science program is offered at Berthoud and Thompson Valley High Schools.

Transportation may be arranged for students at other high schools who wish to participate in this program.

Students who take Agricultural courses may join Future Farmer of America (FFA) - All grades

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

1st Year

- Introduction to Agriculture S1/S2 5900, 5901

2nd Year

- Principles of Animal & Vet Science S1/S2 5910, 5911
- Principles of Plant Science S1/S2 5912, 5913
- Principles of Horticulture Science S1/S2 5914, 5915
- Principles of Natural Resource Management S1/S2 5916, 5917

3rd Year

- Animal Production S1/S2 5920, 5921
- Crop Production & Management / Greenhouse Production S1/S2 5930, 5931
- Principles of Animal & Vet Science S1/S2 5910, 5911
- Principles of Horticulture Science S1/S2 5914, 5915
- Principles of Natural Resource Management S1/S2 5916, 5917

- AP Biology S1/S2 (BHS Only) 3026, 3027
 - High School Select: Postsecondary Credit Options Available through Front Range Community College. Eligible for General College Biology BIO 111 – 5 college credits.
 - Students who enroll in and successfully complete the above college coursework, and successfully complete BIO 105 or BIO 111 (see above) through High School Select or Campus Select, can complete the FRCC Veterinary Technician Assistant Certificate.

4th Year

- Pathfinder Internship – Agriculture, Natural Resources & Energy 5083
- AG Capstone 5984

AG Leadership 5985

Career Pathway:

Business Management & Administration, Finance and Entrepreneurship

Colorado Career Cluster - Business, Marketing, Entrepreneurship, Finance and Public Administration

Business courses in are offered at Berthoud, Ferguson, Loveland, Mountain View, and Thompson Valley High Schools.

Students who take Business & Marketing courses are eligible to join Future Business Leaders of America (FBLA) or DECA.

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

1st Year

- Introduction to Business and Marketing 5018
- Accounting 1 S1/S2 5014, 5015
- Business Law 5019
- Finance 5020
- Communication and Career Development 5022

2nd Year

- Accounting 2 5016
- Entrepreneurship 1 S1/S2 5120, 5121

3rd Year

- Entrepreneurship 2 S1/S2 5124, 5125
- Management 5021

4th Year

- Business Work Experience 5030/5031 (class)
5032/5033 (work)
5034/5035 (work)
- Pathfinder Internship – Business, Marketing, Entrepreneurship, Finance & Public Admin 5084

Career Pathway: Business Information Technology

Colorado Career Cluster - Business, Marketing, Entrepreneurship, Finance and Public Administration

Business courses are offered at Berthoud, Ferguson, Loveland, Mountain View, and Thompson Valley High Schools.

Students who take Business & Marketing courses are eligible to join Future Business Leaders of America (FBLA) or DECA.

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

1st Year

- Computer Applications 5002
- Computer Graphics Business 1 5004
- Multi-Media Technology 5006
- Foundations of Computer Science 5250

2nd Year

- Computer Applications Advanced 5003
- Computer Graphics Business 2 5005
- Web Design 5012
- AP Computer Science Principles S1/S2 5080, 5081

3rd Year

- AP Computer Science A S1/S2 5028, 5029
- Computer Graphics Business 3 - Animation 5076
- Concurrent Enrollment options for College Credit:
 - Career Academy program at Aims Community College (receive both high school and college credit)
 - Aims Loveland Campus Graphic Design 3.0 high school credits
 - Aims Graphic Design Career Pathway 12 college credits
 - Adobe Photoshop I MGD 111 - 3 college credits
 - Adobe Photoshop II MGD 211 - 3 college credits
 - Adobe Illustrator I MGD 112 - 3 college credits
 - Adobe Illustrator II MGD 212 - 3 college credits
 - Graphic and Software Applications Certification upon completion of program. Certification counts towards the Graphic Design Associate's Degree at Aims Community College.

4th Year

- Computer Graphics Business 4 - Advanced Animation 5078
- Pathfinder Internship – Business, Marketing, Entrepreneurship, Finance & Public Admin 5084
- Concurrent Enrollment options for College Credit:
 - Career Academy program at Aims Community College (receive both high school and college credit)
 - Aims Loveland Campus Animation 3.0 high school credits
 - Aims Animation Career Pathway 12 college credits:
 - Digital Animatics MGD 142 - 3 college credits
 - 2D Animation Production MGD 152 - 3 college credits
 - Maya I MGD 119 - 3 college credits
 - Maya II MGD 219 - 3 college credits
 - CA Animation Certification upon completion of program. Certification counts towards the Animation Associate's Degree at Aims Community College.

Career Pathway: Computer & Digital Technologies

Computer Science, Programming, Network Systems & Security

Colorado Career Cluster - Engineering, Technology & Media Arts

Computer & Digital Technologies courses are offered by Business and Industrial Technology departments at Berthoud, Loveland, Mountain View, and Thompson Valley High Schools.

Students who take Computer & Digital Technologies courses are eligible to join Skills USA at Loveland and Thompson Valley or Technology Student Association (TSA) at Mountain View.

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

1st Year	
• Programming Concepts	5026
2nd Year	
• AP Computer Science Principles	5080,
5081	
3rd Year	
• AP Computer Science A S1/S2	5028, 5029
4th Year	
• Technical Support Intern	5092
• Pathfinder Internship – Engineering, Technology & Media Arts	5085
• <u>Concurrent Enrollment options for College Credit:</u>	
○ Campus Select program at <u>Front Range Community College</u>	<u>9 college credits:</u>
▪ Networking	CNG 124 - 3 college credits
▪ A+ certification program	CNG 120 - 3 college credits
▪ Network Security fundamentals	CNG 132 - 3 college credits

Additional opportunities are available at Thompson Career Campus - Information Technology/Cybersecurity

Career Pathway: Marketing

Colorado Career Cluster - Business, Marketing, Entrepreneurship, Finance and Public Administration

Business courses are offered at Berthoud, Ferguson, Loveland, Mountain View, and Thompson Valley High Schools.

Students who take Business & Marketing courses are eligible to join Future Business Leaders of America (FBLA) or DECA.

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

1st Year

- | | |
|--|------|
| • Introduction to Business and Marketing | 5018 |
| • Sports and Entertainment Marketing | 5040 |
| • Web Design | 5012 |

2nd Year

- | | |
|--------------------------------|------------|
| • Entrepreneurship 1 S1/S2 | 5120, 5121 |
| • Marketing Research | 5041 |
| • Social Media and Advertising | 5042 |

3rd Year

- | | |
|------------------------------------|------------|
| • Entrepreneurship 2 S1/S2 | 5124, 5125 |
| • IB Business and Management S1/S2 | 5320, 5321 |

4th Year

- | | |
|-----------------------------------|-------------------|
| • Marketing Work Experience S1/S2 | 5050/5051 (class) |
| | 5052/5053 (work) |
| | 5054/5055 (work) |

Pathfinder Internship – Business, Marketing, Entrepreneurship, Finance & Public Admin

5084

Career Pathway: Education & Training (pg 1/2)

Colorado Career Cluster - Hospitality, Human Services and Education

Family and Consumer Science courses in Education & Training are offered at Loveland, Mountain View and Thompson Valley High Schools.

Students who take Family & Consumer Sciences (FCS) courses may join Family, Career & Community Leaders of America (FCCLA).

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE - **OPTION 1: EDUCATION PATHWAY W/ TEACHER CADET**

9th grade and/or 10th grade Take 1 or more of these courses if offered at your home high school	<ul style="list-style-type: none">8125 Child & Adolescent Development (LHS, MVHS, TVHS)8011 Education Exploration (LHS)8012 Early Childhood Education 101 (LHS, TVHS)8013 Early Childhood Education 102 (TVHS)*<ul style="list-style-type: none">*Dual college credit may be available - see counselor for details
11th grade or 12th grade Start Teacher Cadet as a Junior or Senior	Teacher Cadet at Loveland High School - open to all TSD high school students. Double-blocked class - This class will be T/Th Pds 1 & 3, or 5 & 7, or W/F Pds 2 & 4, or 6 & 8. Mondays are asynchronous. <ul style="list-style-type: none"><u>Sem 1 - 8014/8015 Teacher Cadet 1</u>: classroom learning and observation in elementary schools<u>Sem 2 - 8016/8017 Teacher Cadet 2</u>: internship in elementary school under guidance of teacher
12th grade option	TREP prerequisite concurrent college class - successfully complete 1 college course (tuition paid by TSD) on the TREP menu to qualify to apply for the TREP program
After High School - Year 5 and 6	TREP 2-year concurrent college program

Teacher Cadet information:

- This program is offered at Loveland High School and is open to juniors and seniors from all TSD high schools
- College credit opportunity is available for qualifying students articulating to one of the following schools: CCU, CSU, CSU Pueblo, CU Boulder, UCCS, CU Denver, UNC, Western Colorado University, and the Colorado Community College System
- Students have the opportunity to earn multiple certifications
- Students must provide their own transportation to and from Loveland High School.
- Application form required including teacher recommendation.

Career Pathway: Education & Training (page 2/2)

Colorado Career Cluster - Hospitality, Human Services and Education

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE - **OPTION 2: EDUCATION PATHWAY + EDUCATOR**

APPRENTICESHIP

9th grade and/or 10th grade Take 1 or more of these courses if offered at your home high school	<ul style="list-style-type: none"> 8125 Child & Adolescent Development (LHS, MVHS, TVHS) 8011 Education Exploration (LHS) 8012 Early Childhood Education 101 (LHS, TVHS) 8013 Early Childhood Education 102 (TVHS)* <ul style="list-style-type: none"> *Dual college credit may be available - see counselor for details
11th grade Start Teacher Cadet as a Junior	Teacher Cadet at Loveland High School - open to all TSD high school students. Double-blocked class - This class will be T/Th Pds 1 & 3, or 5 & 7, or W/F Pds 2 & 4, or 6 & 8. Mondays are asynchronous. <ul style="list-style-type: none"> <u>Sem 1 - 8014/8015 Teacher Cadet 1</u>: classroom learning and observation in elementary schools <u>Sem 2 - 8016/8017 Teacher Cadet 2</u>: internship in elementary school under guidance of teacher <ul style="list-style-type: none"> *Apply for Apprenticeship during Semester 2
12th grade	Educator Apprenticeship + TREP pre-req class <ul style="list-style-type: none"> <u>Paid work</u>: work 16-24 hours per week in a TSD elementary school alongside teachers or other staff <u>Related Training required</u>: successfully complete <i>1 college course</i> on the TREP menu (tuition paid by TSD) to qualify to apply for the TREP program
After High School - Year 5 and 6	Educator Apprenticeship + TREP 2-year concurrent college program Registered Apprenticeship is complete at 2000 hrs of work, 144 hours of related training (mainly through TREP program) <ul style="list-style-type: none"> <u>Paid work</u>: work 20+ hours per week in a TSD elementary school alongside teachers or other staff <u>Related Training required</u>: Complete college coursework through TREP 2-year concurrent college program and other related trainings provided by TSD <u>Earn industry certifications</u>

Apprenticeship information:

- Students must successfully complete Teacher Cadet 1 and 2 in order to apply for apprenticeship.
- Acceptance into the Apprenticeship program is not guaranteed. Apprenticeship is a paid employment opportunity that involves a screening and interview process.
- This is a Department of Labor Registered Apprenticeship (RAP). An RAP has the following requirements for completion:
 - 2000 hours of paid on-the-job training (work hours)
 - 144 hours of related training (college coursework or other related training that is provided by/paid for by the employer)
- Participation in this apprenticeship program requires that the apprentice also be in the TREP program, which provides 2 years of free college coursework related to education and articulation to various CO colleges and universities.
- Apprentices also earn credentials or certifications.

Career Pathway: Hospitality & Food Production

Colorado Career Cluster - Hospitality, Human Services & Education

Hospitality & Food Production courses are offered through Family & Consumer Sciences at Berthoud, Loveland, Mountain View, Thompson Valley, and Ferguson High Schools.

Students who take Hospitality & Food Production courses may join Family, Career and Community Leaders of America (FCCLA).

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

1st Year

- Culinary Careers and Nutrition 8018

2nd Year

- Catering S1/S2 8006, 8007

3rd Year

- ProStart 1 S1/S2 8134, 8135
- Catering Advanced S1/S2 8026, 8027

4th Year

- ProStart 2 S1/S2 8136, 8137
- Baking and Pastry S1/S2 8040, 8041
- Pathfinder Internship – Hospitality, Human Services & Education 5086

- Concurrent Enrollment options for College Credit:

- o High School Select program at Metropolitan State University of Denver
 - Metro State Enrollment College Credit 6 college credits:
 - ProStart 1 8134/8135 - eligible for Food Fundamentals HTE 1533 - 3 college credits
 - ProStart 2 8136/8137 - eligible for Food Preparation and Sanitation HTE 1603 - 3 college credits

Career Pathway: Human Services

Colorado Career Cluster - Hospitality, Human Services & Education

Human Services courses are offered through Family & Consumer Sciences at Loveland, Mountain View, and Thompson Valley High Schools.

Students who take Human Services courses may join Family, Career and Community Leaders of America (FCCLA).

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

1st Year

- | | |
|-------------------------------|------|
| • Teen Challenges and Choices | 8000 |
| • Nutrition and Wellness | 8020 |

2nd Year

- | | |
|-------------------|------|
| • Life Management | 8001 |
|-------------------|------|

3rd Year

- | | |
|-----------------|------|
| • Relationships | 8002 |
|-----------------|------|

4th Year

- | | |
|---|------|
| • Pathfinder Internship – Hospitality, Human Services & Education | 5086 |
|---|------|

Career Pathway: Interior and Fashion Design

Colorado Career Cluster - Hospitality, Human Services and Education

Family and Consumer Science courses in Interior and Fashion design are offered at
Loveland, Mountain View and Thompson Valley High Schools.

Students who take Family & Consumer Sciences (FCS) courses may join Family, Career & Community Leaders of America (FCCLA).

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

1st Year

- | | |
|------------------------------------|------|
| • Design Seminar | 8142 |
| • Interior Design 1 | 8008 |
| • Fashion Design / Merchandising 1 | 8138 |

2nd Year

- | | |
|--|------|
| • Interior Design 2 | 8009 |
| ○ <u>High School Select</u> : Postsecondary Credit Options Available through <u>Front Range Community College</u> . Eligible for Intro to Interior Design IND 105 – 3 college credits. | |
| • Fashion Design / Merchandising 2 | 8140 |

3rd Year

4th Year

- | | |
|---|------|
| • Pathfinder Internship – Hospitality, Human Services & Education | 5086 |
|---|------|

Career Pathway: Graphic Design

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

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

1st Year

[Computer Graphics Art 1](#)

6608

[Drawing 1](#)

6600

[Photography 1](#)

6622

2nd Year

[Painting 1](#)

6604

[Computer Graphics Arts 2](#)

6610

[Drawing 2](#)

6602

[Photography 2](#)

6624

3rd Year

[Painting 2](#)

6606

[Photography 3](#)

6626

[Digital Animatics](#)

MGD 142 – 3 college credits

[2D Animation Production](#)

MGD 152 – 3 college credits

[Maya I](#)

MGD 119 – 3 college credits

[Maya II](#)

MGD 219 – 3 college credits

[Pathfinder Internship – Arts, A/V Technology and Communication](#)

TBD

Career Pathway: Health Science

Colorado Career Cluster - Health Science, Criminal Justice and Public Safety

The Health Science pathway is offered at Thompson Career Campus. All students in this pathway are required to register for the concurrent enrollment credit. The Health Science pathway allows students to earn FREE Tuition Community College credit through Front Range Community College for the work they complete at Thompson Career Campus. This is a 2 year pathway.

This pathway features the following college credits:

1st Year / 1st Semester

- | | | |
|-----------------------------------|----------|-----------|
| • Nurse Aide Health Care Skills | NUA 1001 | 4 credits |
| • Nurse Aide Clinical Experiences | NUA 1070 | 1 credit |

1st year / 2nd Semester

- | | | |
|---------------------------------------|----------|-----------|
| • Medical Office Administration | MAP 1010 | 4 credits |
| • Introduction to Medical Terminology | HPR 1038 | 1 credit |
| • CPR for Professionals | HPR 1011 | .5 credit |

2nd Year / 1st Semester

- | | | |
|---------------------------------------|----------|-----------|
| • Disease Process & Treatment | HPR 1032 | 5 credits |
| • Pharmacology for Medical Assistants | MAP 1050 | 3 credits |

2nd Year / 2nd Semester

- | | | |
|----------------------------|----------|-----------|
| • Medical Assistant Lab | MAP 2038 | 4 credits |
| • Medical Assistant Skills | MAP 2040 | 4 credits |
| • National Exam Review | MAP 2069 | 1 credit |

Career Pathway: Architecture and Construction

Colorado Career Cluster - Skilled Trades & Technical Sciences

Architecture & Construction programs are offered at
Berthoud, Loveland, Mountain View, and Thompson Valley High Schools.

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

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

1st Year

- Invention and Design 8300
- Construction 1 S1/S2 8310, 8311

2nd Year

- Construction 2 - General 8312
- Construction 2 - Intro to Construction & Rough Carpentry *(TVHS only)* 8318
- Construction 2 - Intro to Finish Carpentry *(TVHS only)* 8319

- Geometry in Construction S1/S2 *(TVHS only)*
 - Geometry in Construction 8314, 8315
 - Geometry 2024, 2025

- Technical Drawing S1/S2 8302, 8303

3rd Year

- Architectural Drawing S1/S2 8304, 8305

4th Year

- Pathfinder Internship – Skilled Trades and Technical Sciences 5087

Additional opportunities are available at Thompson Career Campus - Construction Skilled Trades (Juniors and Seniors)

Career Pathway: Engineering Technology

Project Lead the Way Engineering and Robotics

Colorado Career Cluster - Engineering, Technology & Media Arts

Engineering Technology/Project Lead the Way courses are offered at Berthoud and Mountain View High Schools. Robotics courses are offered at Loveland High.

Students who take Engineering Technology and Robotics courses are eligible to join Skills USA, Technology Student Association (TSA), or Robotics at Loveland High.

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE - *ENGINEERING - Project Lead the Way at BHS and MVHS*

1st Year

- Introduction to Engineering Design S1/S2 8400, 8401
- Principles of Engineering 8402, 8403
 - Concurrent Enrollment options for College Credit:
 - High School Select program at Univ. of Colorado at Colorado Springs 5 college credits:
 - 8400/8401 - eligible for Intro 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 S1/S2 8406, 8407

3rd Year

- Aerospace Engineering S1/S2 8406, 8407
- Engineering Design and Development S1/S2 8414, 8515

4th Year

- Technical Support Intern 5092
- Pathfinder Internship – Engineering, Technology & Media Arts 5085

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE - *ROBOTICS at LHS*

1st Year

- Introduction to Electronics and Programming S1/S2 (LHS) 5256, 5257
- Programming Concepts 5026
- Introduction to Robotics IB MYP S1/S2 (LHS) 8452, 8453

2nd Year

- Advanced Electronics and Programming S1/S2 (LHS) 8708, 8709
- Advanced Robotics S1/S2 (LHS) 8436, 8437

3rd Year

- Robotics Leadership S1/S2 (LHS) 8422, 8423

4th Year

- Technical Support Intern 5092
- Pathfinder Internship – Engineering, Technology & Media Arts 5085

Additional opportunities are available at Thompson Career Campus - Information Technology/Cybersecurity

Career Pathway: Manufacturing

Colorado Career Cluster - Skilled Trades & Technical Sciences

Manufacturing courses are offered at Loveland and Thompson Valley High Schools.

Students who take Manufacturing courses are eligible to join Skills USA or Technology Student Association (TSA).

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

1st Year

- | | |
|---|------------|
| • Manufacturing Processes, Entrepreneurship and Design IB MYP S1/S2 | 8438, 8439 |
| • Invention and Design | 8300 |
| • Manufacturing 1 | 8330 |

2nd Year

- | | |
|-------------------------|------------|
| • Manufacturing 2 S1/S2 | 8332, 8333 |
|-------------------------|------------|

3rd Year

4th Year

- | | |
|---|------|
| • Pathfinder Internship – Skilled Trades and Technical Sciences | 5087 |
|---|------|

Additional opportunities are available through these programs:

- ***Thompson Valley High School - Welding program***
- ***Thompson Career Campus - Construction Skilled Trades (Juniors and Seniors) program***

Career Pathway: Transportation/Automotive

Colorado Career Cluster - Skilled Trades & Technical Sciences

Transportation/Automotive courses are offered at Thompson Valley High School.

Students who take Transportation courses are eligible to join Skills USA or Technology Student Association (TSA).

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

1st Year

- Transportation 1 8320

2nd Year

- Transportation 2 S1/S2 8322, 8323

3rd Year

- Automotive Systems 2-year program - district-wide program located at TVHS

4th Year

- Automotive Systems 2-year program - district-wide program located at TVHS

Career Pathway: Welding

Colorado Career Cluster - Skilled Trades & Technical Sciences

Welding courses are offered at Thompson Valley High School.

Students who take Transportation courses are eligible to join Skills USA or Technology Student Association (TSA).

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

1st Year

- Manufacturing 1 8330

2nd Year

- Manufacturing 2 S1/S2 8332, 8333

3rd Year

- Welding 1-semester program - district-wide program located at TVHS

4th Year

- Welding 1-semester program - district-wide program located at TVHS

Career Pathway: Industrial Science and Technology

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

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

1st Year

Manufacturing Processes, Entrepreneurship and Design IB MYP 8438, 8439

Invention and Design 8300

Manufacturing 1 8330

Intro to Robotics 8420, 8421

Transportation 1 8320

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

Front Range Community College

5683 – eligible for Basic Shielded Metal Arc I

WEL 1003 – 4 college credits

5743 – eligible for Safety for Welders

WEL 1000 – 1 college credit

2nd Year

Transportation 2 8322, 8323

Manufacturing 2 8332, 8333

Robotics Leadership 8422, 8423

3rd Year

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

FRCC Welding and Metal Fabrication 3.0 high school credits

FRCC College Credit from Welding and Metal Fabrication Career Pathway: 13 college credits

Safety for Welders WEL 100 – 1 college credit

Allied Cutting Process WEL 101 – 4 college credits

Basic Shielded Metal Arc I WEL 103 – 4 college credits

Intro to Gas Metal Arc Welding WEL 125 – 4 college credits

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

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

FRCC Automotive Technology & Service 3.0 high school credits

FRCC College Credit from Career Pathway: 10 college credits

Auto Shop Orientation ASE 101 – 2 college credits

Brakes I ASE 110 – 2 college credits

Steering & Suspension ASE 140 – 2 college credits

Basic Auto Electricity ASE 120 – 2 college credits

General Engine Diagnosis ASE 130 – 2 college credits

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

4th Year

[Pathfinder Internship – STEM, Arts, design and Information Technology](#)

5085

[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:](#)

13 college credits

Intro to Gas Tungsten Arc Welding

WEL 1024 – 4 college credits

Advanced Gas Tungsten Arc Welding

WEL 2024 – 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**

[Thompson Career Campus - Construction Skilled Trades](#)

[TCC Construction Pathway](#)

Career Pathway: Broadcasting, Journalism and Video Production

Colorado Career Cluster - Media Arts - Engineering, Technology & Media Arts

Media Arts courses are offered at all high schools.

Students who take Broadcasting, Journalism and Video Production courses are eligible to join SkillsUSA

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

1st Year

- Video Production 1 6634
- Journalism 1 1116

2nd Year

- Video Production 2 6636, 6637
- Journalism 2 S1/S2 1118, 1119

3rd Year

- Video Production 3 S1/S2 6652, 6653
- Video Communication 1S1/S2 6628, 6629

4th Year

- Video Communication 2 S1/S2 6632, 6633

Agricultural Science

Students who take Agricultural courses may join FFA- All grades

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

AGRICULTURE CAPSTONE / AGRICULTURE LEADERSHIP

5984, 5985

BHS, TVHS

Credit: 1.0 Career Pathway Elective

Recommended: Intro to Agricultural Science & Technology, Agriscience & one or both of the Advanced Systems Class

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

In Agriculture Capstone, students will:

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

PRINCIPLES OF ANIMAL & VET SCIENCE A/B

5910, 5911

BHS, TVHS

Credit: .50 Career Pathway Elective – Semester 1

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

Recommended: Intro to Agriculture

Fee: \$25 per semester

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

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

- Develop knowledge, skills and understanding in the biological processes and physiological systems found in livestock and companion animal species
- Explore anatomy and physiology, growth and development, muscular and skeletal systems, integumentary system, respiratory and circulatory systems, nervous system, lymphatic and endocrine systems and excretory system
- Enhance knowledge about the scientific process including observation, hypothesizing, data gathering, interpretation, analysis and application
- Explore career opportunities and educational preparation
- Become familiar with global agriculture issues and concepts
- Be required to participate in a Supervised Agriculture Experience
- Develop leadership and employability skills for future careers and endeavors
- Have the chance to participate in educational field trips and experiences pertaining to agriculture and FFA on a district, state, and national level

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.

PATHFINDER INTERNSHIP – AGRICULTURE, FOOD AND NATURAL RESOURCES 5083

BHS, LHS, 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

PRINCIPLES OF HORTICULTURE SCIENCE 5914, 5915

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 Horticulture Science A&B, students will:

- Introduce students to the horticulture industry
- Explore areas such as horticulture research and horticultural careers
- Enhance knowledge on plant anatomy, seed germination, plant propagation, growing media, pest management, hydroponics, identifying horticultural plants, soil science, and growing greenhouse crops
- Improve industry standard workplace skills
- Become familiar with global agriculture issues and concepts
- Be required to participate in a Supervised Agriculture Experience
- Develop leadership and employability skills for future careers and endeavors
- Have the chance to participate in educational field trips and experiences pertaining to agriculture and FFA on a district, state, and national level

PRINCIPLES OF NATURAL RESOURCE MANAGEMENT A/B 5916, 5917

TVHS

Credit: 1.0 Career Pathway Elective

Recommended: Introduction to Agriculture

Fee: \$25 per semester

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

In Principles of Natural Resource Management A/B, students will:

- Explore careers in Natural Resources and Environmental Sciences
- Expand knowledge on the foundational principles of ecology including the fields of geology, meteorology, biology and chemistry related to the conservation, natural resources, and fish and wildlife management
- Develop an understanding of environmental issues and science
- Be required to participate in a Supervised Agriculture Experience
- Develop leadership and employability skills for future careers and endeavors
- Have the chance to participate in educational field trips and experiences pertaining to agriculture and FFA on a district, state, and national level

Agricultural Science

Students who take Agricultural courses may join FFA- All grades

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

PRINCIPLES OF PLANT SCIENCE A/B

5912, 5913

BHS

Credit: .50 Career Pathway Elective - Semester 1

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

Recommended: Introduction to Agriculture

Fee: \$25 per semester

Pathway: Agricultural Science - Agriculture, Food and Natural Resources

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

- Develop knowledge about the growth, development, and reproduction of plants used for food, fiber, and beautification
- Explore topics such as plant anatomy and physiology, plant growth processes such as photosynthesis, propagation (reproduction) methods, taxonomy and classification, and plant identification
- Explore careers relevant to the plant science industry
- Become familiar with global agriculture issues and concepts
- Be required to participate in a Supervised Agriculture Experience
- Develop leadership and employability skills for future careers and endeavors
- Have the chance to participate in educational field trips and experiences pertaining to agriculture and FFA on a district, state, and national level

INTRODUCTION TO AGRICULTURE

5900, 5901

BHS, TVHS

Credit: 1.0 Applied Arts / CTE

Fee: \$25 per semester

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

In Introduction to Agriculture, students will:

- Explore the foundational principles of agriculture, food and natural resources
- Gain knowledge in career development, leadership, personal development, communications
- Become familiar with agriculture topics such as animal science, plant science, natural resources, food science, power/structure and agribusiness.
- Be required to participate in a Supervised Agriculture Experience
- Develop leadership and employability skills for future careers and endeavors
- Have the chance to participate in educational field trips and experiences pertaining to agriculture and FFA on a district, state, and national level

Agricultural Science

Students who take Agricultural courses may join FFA- All grades

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

ANIMAL PRODUCTION A/B

5920, 5921

BHS

Credit: .50 Career Pathway Elective – Semester 1

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

Fee: \$25 per semester

Recommended: Intro to Agriculture, Principles of Animal & Vet Science A/B

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

In Animal Production A/B, students will:

- Explore the Animal production Systems
- Enhance their knowledge of "Farm to Table"
- Gain knowledge about Animal Reproduction and Genetics
- Understand Animal Nutrition and Feeding
- Become familiar with Animal Behavior
- Gain the knowledge and skills to be Career and/or College Ready
- Become familiar with global agriculture issues and concepts
- Be required to participate in a Supervised Agricultural Experience
- Develop leadership and employability skills for future careers and endeavors
- Have the chance to participate in educational field trips and experiences pertaining to agriculture and FFA on a district, state, and national level

CROP PRODUCTION & MANAGEMENT/GREENHOUSE PRODUCTION

5930, 5931

BHS

Credit: .50 Career Pathway Elective – Semester 1

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

Fee: \$25 per semester

Recommended: Introduction to Agriculture, Principles of Plant Science A/B

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

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

- Explore sustainable agriculture
- Gain skills in planting, soil preparation, integrated pest mgt, harvest, handling and storing according to current industry standards,
- Understand how to develop production plans
- Enhance their knowledge of food/biosecurity, fertilizer mgt, and water mgt.
- Understand plant identification
- Explore greenhouse management
- Become familiar with horticulture mechanics
- Enhance understanding of Agribusiness which will cover operating a horticultural business, pricing work, advertising, and sales.
- Be required to participate in a Supervised Agriculture Experience
- Develop leadership and employability skills for future careers and endeavors
- Have the chance to participate in educational field trips and experiences pertaining to agriculture and FFA on a district, state, and national level

Art

AP DRAWING	6640, 6641
AP 2-D ART AND DESIGN	6642, 6643
AP 3-D ART AND DESIGN	6644, 6645

BHS, LHS, MVHS, TVHS

Credit: 1.0 Fine Arts - per each year long course

Fee: \$35 per semester

Recommended: Three or more art classes, two should be

sequential; **written approval of AP Studio Instructor**

Pathway: Graphic Design- Arts, A/V Technology and Communication

In AP Studio Arts, students will:

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

ART EXPLORATION	6601
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BHS

Credit: .5 per semester

Fee: \$10 per semester

FHS

Credit: .25 Fine Arts per quarter

Fee: \$10 per quarter

In Art Exploration students will:

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

AP ART HISTORY	6638, 6639
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LHS, 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

COMMERCIAL ART	6612
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FHS

Credit: .25 Fine Arts per quarter

Fee: \$10 per quarter

In Commercial Art students will:

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

COMPUTER GRAPHICS – ART 1

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

DRAWING 1

6600

BHS, MVHS, TVHS

Credit: .50 Fine Arts

Fee: \$25 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 1 IB MYP

6700

LHS

Credit: .50 Fine Arts

Fee: \$25 per semester

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

In Drawing 1 IB MYP, 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: \$25 per semester

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

In Drawing 2, students will:

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

METALSMITHING/JEWELRY 1

6618

MVHS, TVHS

BHS, LHS (Grades 10, 11, 12)

Credit: .50 Fine Arts

Fee: \$35 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' artwork
- apply appropriate problem-solving abilities to body ornamentation

METALSMITHING/JEWELRY 2

6620

LHS, MVHS, TVHS

BHS (Grades 11, 12)

Credit: .50 Fine Arts

Fee: \$35 per semester

Recommended: Metalsmithing/Jewelry 1

In Metalsmithing/Jewelry 2, students will:

- further develop and refine basic metal skills
- explore a variety of advanced metalsmithing/jewelry techniques including, but not limited to, stone setting and patinas
- communicate personal expressions with metal and jewelry techniques
- evaluate and critique own and others' artwork
- apply appropriate problem-solving abilities to body ornamentation

PAINTING 1

6604

BHS, LHS, MVHS, TVHS

Credit: .50 Fine Arts

Fee: \$25 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' artwork
- be exposed to art history as it relates to painting

PAINTING 2

6606

LHS, MVHS

BHS (Grades 10, 11, 12)

Credit: .50 Fine Arts

Fee: \$25 per semester

Recommended: Drawing 1 and Painting 1

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

In Painting 2, students will:

- develop a series of paintings which show versatility in subject matter and media
- develop a refinement of their painting techniques and problem solving to create personal expressions in painting
- be exposed to art history as it relates to painting
- evaluate and critique own and others' artwork

PATHFINDER INTERNSHIP ARTS, A/V TECHNOLOGY & COMMUNICATION

XXXX

TBD

Credit: TBD

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

In Pathfinder Internship, students will:

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

PHOTOGRAPHY 1

6622

LHS, MVHS, TVHS

BHS (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 influential photographers
- evaluate and critique their own and others' artwork
- continued exploration of digital photography (DSLR) and digital photographic editing with Adobe Photoshop

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

Art

SCULPTURE/CERAMICS 1

6614

LHS, MVHS, TVHS
BHS (Grades 10, 11, 12)
Credit: .50 Fine Arts
Fee: \$25 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' artwork
- utilize the Design Cycle to understand the Artistic Process

SCULPTURE/CERAMICS 2

6616

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

Fee: \$25 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

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

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

6636

Credit: .50 Fine Arts

Fee: \$30 per semester

Recommended: Video Production 1

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

In Video Production 2, students will:

- create, plan, write, record, edit, and copy video presentations on a wide variety of topics
- use DSLR and graphics hardware and software to produce creative media packages
- expand technical competency, artistry, and storytelling abilities
- research the history of television, video, and film production with discussions on their influence and impact on our culture
- evaluate and critique their own and others' art work

Art

VIDEO PRODUCTION 3

6652, 6653

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

LHS (Grades 10, 11, 12)

6652

Credit: 0.50 Fine Arts Fee: \$30 per semester

Recommended: Video Production 1 and 2 or Instructor approval

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

In Video Production 3, students will:

Students will be required to produce a certain amount of films during the semester. Each of the films is given parameters the students must meet. They will also participate in filming some school/district events.

PRE AP VISUAL ARTS

6670, 6671

TVHS (10/11)

Credit: 1.0 Fine Arts

Fee: *proposed \$25 per semester or \$50 for the year*

In Pre AP Visual Arts, students will:

The foundational concepts, instructional principles, and artistic practices at the heart of the Pre AP Visual Arts course directly prepare students for participation in the AP Studio Art course students will build and refine technical skills while also developing an understanding of art making as a means of communicating and of investigating topics or ideas of significance.

Pre AP instructional materials also highlight works of art featured in the AP Art History course, enabling students to gain familiarity with these foundational works and practice analyzing and interpreting a wide range of artistic examples.

Participation in the Pre AP Visual Arts course will also prepare students for participation in the AP Capstone sequence of study. AP Capstone is a two-year program comprised of two courses—AP Seminar and AP Research—focusing on skills of research, analysis of sources, constructing arguments, and communicating ideas. Pre AP Visual Arts instruction highlights these skills as well, inviting students to analyze and respond to works of art, develop and refine their own ideas by drawing on a variety of source material, and constructively respond to the work of peers as it develops.

Business

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

ACCOUNTING 1 5014, 5015

BHS, FHS, TVHS

Credit: 1.0 Applied Arts /CTE

Fee: \$5 per semester

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

LHS 5014

Credit: 0.5 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, 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

BUSINESS LAW 5019

BHS, FHS, 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

FHS, MVHS, TVHS

LHS (Grade 11, 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

Business

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

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

Elective Fee: \$5 per semester

Recommended: Computer Applications

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

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

In Computer Applications - Advanced, students will:

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

COMPUTER GRAPHICS – BUSINESS 1

5004

BHS, LHS, 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

Business

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

COMPUTER GRAPHICS – BUSINESS 2

5005

BHS, LHS, 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, 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

COMPUTER GRAPHICS - BUSINESS 4 ADVANCED ANIMATION

5078

BHS, LHS, 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

Business

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

AP COMPUTER SCIENCE A

5028, 5029

BHS

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, 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, TVHS

LHS (10, 11, 12 Grades)

Credit: 1.0 Applied Arts / CTE

Fee: \$15 per semester

Recommended: 1 year of business classes and teacher approval

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

FHS

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, TVHS

Credit: 1.0 Applied Arts / CTE

Fee: \$15 per semester

Recommended: Entrepreneurship 2 and teacher approval

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

In Entrepreneurship 2, students will:

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

IB DP BUSINESS AND MANAGEMENT SL

5320, 5321

LHS

Credits: 1.0 Applied Arts / CTE

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

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

In IB DP Business and Management SL, 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, FHS, 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

Not offered at this time

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

PATHFINDER INTERNSHIP - BUSINESS, MARKETING AND PUBLIC ADMINISTRATION

5084

BHS, LHS, MVHS, TVHS

Credit: .50 Applied Arts / CTE

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

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

Pathway: Marketing – Business, Marketing and Public Administration

In Pathfinder Internship, students will:

- Learn to provide a practical introduction to the work environment through direct contact with professionals in the community. The content should include, but not be limited to, the following: discussion of professional job requirements, awareness and knowledge of career opportunities, building vocabulary 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, 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.

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

ADVANCED ELECTRONICS AND PROGRAMMING

8708, 8709

LHS (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 MAINTENANCE INDEPENDENT STUDY

8634, 8635

BHS, TVHS

Credit: .50 Career Pathway Elective - per semester

Recommended: Written permission from the teacher

In Pathway Internship, students will:

In Computer Maintenance Independent Study, students will:

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

INTRODUCTION TO ELECTRONICS AND PROGRAMMING

5256, 5257

LHS

Credit: 1.0 Applied Arts

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

In Introduction to Electronics and Programming, students will:

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

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

PATHWAY INTERNSHIP – STEM, ARTS, DESIGN AND INFORMATION TECHNOLOGY 5085

BHS, LHS, 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 IB MYP

8451

BHS, TVHS

LHS

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

INTRODUCTION TO ROBOTICS IB MYP

8452, 8453

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 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

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, TVHS

Credit: .25 Career Pathway Elective per semester

AIDE – BUILDING

8640, 8641

BHS, LHS, TVHS

Credit: .25 Career Pathway Elective per semester

AIDE – COUNSELING

8678, 8679

LHS, TVHS

Credit: .25 Career Pathway Elective per semester

Recommended: Recommendation and approval from a counselor and interview

As an Aide - Counseling, students will:

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

AIDE – GUIDANCE

8636, 8637

BHS

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, 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 - Aides

CAMPUS LIBRARY INTERN

8750

BHS

Credit: .5 Career Pathway Elective credit

Join your campus librarian(s) in creating a welcoming, engaging and inclusive library at your school! As a Campus Library Intern, students will:

- Hone communication and collaboration skills
- Study library services/collections and make recommendations
- Engage their peers with the library as a space for learning and personal growth
- Develop expertise on information literacy
- Improve their school community through projects of personal interest.

Electives – English Language Arts

ACTING TECHNIQUES

1124

BHS, MVHS, TVHS

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

LHS, MVHS, TVHS

Credit: .50 Career Pathway Elective

Recommended: Acting Techniques

In Acting Techniques Advanced, students will:

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

AP RESEARCH S1/S2

8834. 8835

TVHS

Credit: .50 Language Art

Recommended: AP Seminar

In AP Research, students will:

Build on what you learned in AP Seminar to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, you will design, plan, and conduct a year-long research based investigation to address a research question which would culminate with a research paper and oral defense.

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

THEATRE PRODUCTION

8612

LHS, 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

Electives – English Language Arts

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 - JROTC

The JROTC program is offered at Loveland High School. For the school year 2021-22, the program will be offered at BHS in the fall and MVHS in the spring. TVHS students will be transported to LHS for those that wish to participate in this program for both the fall and spring semesters.

JROTC - LEVEL 1

8618, 8619

LHS/BHS/TVHS/MVHS

Credit: .50 Fitness (meets graduation fitness requirement) / Career Pathway Elective - Semester 1

Credit: .50 Social Studies (meets Civics Requirement) / Career Pathway Elective - Semester 2

Fee: \$25 per semester

In JROTC Level 1, students will:

- participate in Leadership Education and Training (LET) I consisting of effective communication techniques, Presidential Physical Fitness Program, basic leadership skills, self-awareness skills, emotional intelligence, study skills, Introduction to branches of the Armed Forces. Weapons safety and basic marksmanship skills, goal setting, drug abuse prevention, basic nutrition, and citizenship through history, drill and ceremonies, civic engagement and US Civics topics will also be introduced.

JROTC - LEVEL 2

8620, 8621

LHS/BHS/TVHS/MVHS

Credit: 1.0 Career Pathway Elective

Recommended: JROTC - Level 1

Fee: \$25 per semester

In JROTC Level 2, students will:

- participate in Leadership Education and Training (LET) II consisting of principles of leadership, physical fitness, basic leadership, emergency first aid, drug abuse prevention, initial career exploration, technology awareness, topographical map reading, orienteering, weapons safety and basic marksmanship skills and basic formal presentation skills through character development.

JROTC - LEVEL 3

8624, 8625

LHS/BHS/TVHS/MVHS

Credit: 1.0 Career Pathway Elective

Fee: \$25 per semester

Recommended: JROTC - Level 2

In JROTC Level 3, students will:

- participate in Leadership Education and Training (LET) III consisting of service learning projects, military history, decision making, leadership position evaluation, career exploration and development, post-secondary education opportunities, physical fitness, human relations, military career opportunities, weapons safety and basic marksmanship skills.

JROTC - LEVEL 4

8626, 8627

LHS/BHS/TVHS/MVHS

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 and learning to instruct classes.

Electives - JROTC

JROTC – MARKSMANSHIP

8651

BHS, LHS, MVHS, TVHS

Credit: .50 Career Pathway Elective

Fee: \$10 per semester

Recommended:

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

In JROTC Marksmanship, students will:

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

Electives – Physical Education

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, 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 WEIGHTS

7615

BHS, LHS, MVHS, TVHS

Credit: .50 Career Pathway Elective

Recommended: Men's or Women's Weights and/or instructor approval (at BHS/TVHS 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

LIFEGUARDING

7604

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, pickleball, table tennis, etc.
- know and understand the rules, techniques, and safety expectations of the activities
- demonstrate an understanding of fitness components of participating in warm-up and cool-down activities
- participate in lifetime activities

POSITIVE PE

9072, 9073

MVHS

POSITIVE PE

9073

LHS

Credit: 0.5

In Positive PE:

This course combines students of all abilities to participate in developmentally appropriate activities including lifetime activities, physical fitness and sport. Students will work together to increase competence and confidence in a variety of physical activities. Through ongoing leadership opportunities, members of this course will be empowered to help create a more inclusive and accepting school environment for all students.

SELF-DEFENSE

7602

TVHS, LHS

LHS Females Only (Grades 10, 11, 12)

TVHS Females Only (All grades)

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

BHS, LHS, MVHS, TVHS

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

Electives – Physical Education

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 – Physical Education

YOGA & FITNESS

7625

TVHS

Credit: .50 Fitness OR Career Pathway Elective Fee: \$10
for equipment upkeep (yoga mats, yoga blocks, etc.)

In Yoga & Fitness, students will:

- Develop skills and knowledge in yoga movement, meditation, and breathing exercises
- Know and understand yoga vocabulary, sequences, poses
- Apply benefits of yoga to improve adolescent health and well-being (puberty, physiology, brain development)
- Apply yoga movement, meditation, and breathing to develop stress management skills, improve physical and mental health, and social emotional learning
- Improve personal flexibility and balance
- Design and create their own yoga sequences to present
- Use yoga as a method of lifelong fitness

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

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) 9th	8730/8731
AVID (Advancement via Individual Determination) 10th	8732/8733
AVID (Advancement via Individual Determination) 11th	8734/8735
AVID (Advancement via Individual Determination) 12th	8736/8737

TVHS

Credit: 1.0 Career Pathway Elective

AVID's mission is to close the opportunity gap by preparing all students for college readiness and success in a global society. Visit the international website here: <https://www.avid.org/>

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

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

CSU CAMPUS CONNECTIONS	9600
BHS, LHS	
Credit: .50 Career Pathway Elective per semester	

In CSU Campus Connections, students will:

-

ELEMENTARY TUTOR	8628, 8629
BHS, LHS	
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

FRESHMAN SEMINAR	8718, 8719
LHS, TVHS, 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

Electives – Student Leadership

LEADERSHIP

8616, 8617

MVHS

Credit: 1.0 Career Pathway Elective

In 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, MVHS

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 ICAP plans

SERVICE LEARNING

5090

Not offered at this time

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.

Electives – Student Leadership

SOCIAL EMOTIONAL LEARNING

8500, 8501

FHS

Credit: .50 Elective

In Social Emotional Learning, students will:

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

SOCIAL EMOTIONAL EDUCATION

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.

SOURCES OF STRENGTH

8690, 8691

LHS

Credit: 1.0 Career Pathway Elective

In Sources of Strength, 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, MVHS, TVHS*

Credit: 1.0 Career Pathway Elective

Recommended: Elected and/or appointed

*(BHS & TVHS Student Council application required)

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

Electives – Student Leadership

TEEN COURT

8698, 8699

Municipal Courthouse – 810 E 10th Street in Loveland

Credit: 2 hours of Community Service per session

or

Credit: .25 Career Pathway Elective – per semester

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

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

ARGUMENTATION/DEBATE

1122

LHS, MVHS

Credit: .50 Language Arts

Recommended: Speech

In Argumentation/Debate, students will:

- understand the fundamentals of argumentation and debate
- deliver an extemporaneous speech
- demonstrate the ability to construct affirmative and negative cases and plans
- participate in debates
- demonstrate the ability to keep a flow chart

COLLEGE COMPOSITION 1

1103

BHS, LHS, MVHS, TVHS

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, LHS, MVHS, TVHS

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

CREATIVE WRITING

1105

BHS, MVHS (10th-12th), TVHS

Credit: .50 Career Pathway Elective

In Creative Writing, students will:

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

English Language Arts

ELA SL A: PUBLIC SPEAKING

1614

MVHS

Credit: .50 Language Arts

In Public Speaking, students will:

In this semester-long class, the student will be introduced to the theories and processes of communication – verbal and nonverbal. Students will practice a variety of communication skills, including building self-confidence, poise, and good speaking techniques. The class will provide students with opportunities to practice and perform for a variety of subjects and situations in front of an audience.

ELA THEATRE

TBD

LHS

Credit: .50 Language Arts

In this class, students will focus on the different aspects of theatre history while doing projects that demonstrate the amazing styles of that era. Projects include creative writing, lip-syncing, pantomiming, designing costumes, rewriting Shakespeare, researching Broadway, and producing a short scene. Along the way, students will work with peers, develop strong presentation skills, and analyze a variety of performances.

ELA SL 12: 21st CENTURY SPEAKING SKILLS

1960

LHS (Grades 12)

Credit: .50 Language Arts

This semester-long class counts as a Speaking/Listening 12 class at Loveland High School. In this semester-long class, the focus of the class will be to provide students with opportunities to perform and practice communication in front of an audience and practice communication skills they will need in the workforce. Students will learn about verbal and nonverbal communication, social media, interviewing skills, and practice organizational communication techniques.

ELA SL 12: ARGUMENTATION AND DEBATE

1964

LHS (Grades 12)

Credit: .50 Language Arts

This semester-long class counts as a Speaking/Listening 12 class at Loveland High School. The Argument & Debate course is taught in a fun, yet challenging classroom setting. Students receive encouragement and gain confidence as they practice argument and debate skills in a spirit of fellowship. The Argument & Debate fundamentals of types of arguments, constructing arguments, defending positions, choosing evidence, documenting sources, studying logical reasoning, recognizing fallacies of reasoning, cross-examining opponents, delivering rebuttal speeches, writing debate ballots, and giving oral critiques are integral components of this course.

ELA SL 12: COLLEGE PUBLIC SPEAKING

1961

LHS (Grades 12)

Credit: .50 Language Arts

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

This semester-long class counts as a Speaking/Listening D class at Loveland High School. This course is designed to improve students' written and verbal communication in a variety of everyday environments. Because effective communication skills help further one's education, career, and interpersonal life, we will study a variety of methods, settings, and purposes, with the goal of enabling each student to become a more confident, effective, and ethical speaker. We will also emphasize how ethical communication includes demonstrating respect for a diverse range of opinions, hence modeling civility while learning how to disagree with style and class. The class also focuses on what we call an "invitational" style of speaking meant to create a sense of community built around fair argumentation. This course is a dual-credit course offering students the possibility of earning college credit with a 'C' or better in the class and is weighted.

ELA SL 12: INTRODUCTION OF MEDIA STUDIES

1963

LHS (Grades 12)

Credit: .50 Language Arts

This semester-long class counts as a Speaking/Listening 12 class at Loveland High School and introduces students to the economy of the media, the analysis of media messages and new media technologies, and the ways popular culture influences our daily behavior. This course is a dual-credit course offering students the possibility of earning college credit with a 'C' or better in the class and is a Guaranteed Transfer List course.

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 IB MYP

1300, 1301

LHS

Credit: 1.0 Language Arts

The aims of English 9 IB MYP are to encourage and enable students to:

- use language as a vehicle for thought, creativity, reflection, learning, self-expression, analysis, and social interaction
- develop the skills involved in listening, speaking, reading, writing, viewing, and presenting in a variety of contexts
- develop critical, creative, and personal approaches to studying and analyzing literary and non-literary texts
- engage with text from different historical periods and a variety of cultures
- explore and analyze aspects of a variety of cultures through literary and non-literary texts
- explore language through a variety of media and modes
- develop a lifelong interest in reading
- apply linguistic and literary concepts and skills in a variety of authentic contexts.

Our MYP unit content and texts will be drawn from the District-driven guaranteed and viable curriculum in the MyPerspectives textbook material.

ENGLISH 9IB MYP HONORS

LHS

Credit: 1.0 Language Arts

The aims of the English 9 IB MYP/Honors course are the same as English 9 IB MYP. At the honors level, students will:

- use language as a vehicle for thought, creativity, reflection, learning, self-expression, analysis, and social interaction
- develop the skills involved in listening, speaking, reading, writing, viewing, and presenting in a variety of contexts
- develop critical, creative, and personal approaches to studying and analyzing literary and non-literary texts
- engage with text from different historical periods and a variety of cultures
- explore and analyze aspects of personal, host, and other cultures through literary and non-literary texts
- explore language through a variety of media and modes
- develop a lifelong interest in reading
- apply linguistic and literary concepts and skills in a variety of authentic contexts.

Our MYP unit content and texts will be drawn from the District-driven guaranteed and viable curriculum in the MyPerspectives textbook materials.

At the honors levels, students are expected, in addition to the above, to read assigned full-length texts outside of class, engage in high-level discussions of those texts in class, and be prepared to implement them in the work throughout the semester. Additionally, students will delve deeper into the course content and move quickly through the content.

Any students wishing to push themselves academically, become more confident readers and writers, and be a part of a class with other students with similar academic goals should take this class.

ENGLISH 9 LISA HONORS

1008, 1009

MVHS

Credit: 1.0 Language Arts

In English 9 LISA HONORS, 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 responses and essays
- present a problem/solution or cause/effect presentation

ENGLISH 9 HONORS

1016, 1017

BHS, LHS, MVHS

Credit: 1.0 Language Arts

In English 9 HONORS, students will:

- learn the same skills as in English 9, but at a more advanced and rigorous level

PRE AP ENGLISH 1

1006, 1007

TVHS

Credit: 1.0 Language Arts *In Pre AP English 1, students will:*

- learn the same skills as in English 9, but at a more advanced and rigorous level. Per the AP Central College Board's website, "Honors 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 Honors 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" (<https://pre-ap.collegeboard.org/courses/course-descriptions/english-1>)

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 10 LISA HONORS

1030, 1031

MVHS
Credit: 1.0 Language Arts

In English 10 LISA Honors, students will:

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

ENGLISH 10 HONORS

1036, 1037

BHS, MVHS
Credit: 1.0 Language Arts

In English 10 Honors, students will:

- learn the same skills as in English 10, but at a more advanced and rigorous level

ENGLISH 10 IB MYP

1310, 1311

LHS
Credit:

The aims of English 10 IB MYP are to encourage and enable students to:

- use language as a vehicle for thought, creativity, reflection, learning, self-expression, analysis, and social interaction
- develop the skills involved in listening, speaking, reading, writing, viewing, and presenting in a variety of contexts
- develop critical, creative, and personal approaches to studying and analyzing literary and non-literary texts
- engage with text from different historical periods and a variety of cultures
- explore and analyze aspects of a variety of cultures through literary and non-literary texts
- explore language through a variety of media and modes
- develop a lifelong interest in reading
- apply linguistic and literary concepts and skills in a variety of authentic contexts.

Our MYP unit content and texts will be drawn from the District-driven guaranteed and viable curriculum in the MyPerspectives textbook material.

ENGLISH 10 IB MYP

1312, 1313

LHS

Credit:

The aims of English 10 IB MYP are to encourage and enable students to:

- use language as a vehicle for thought, creativity, reflection, learning, self-expression, analysis, and social interaction
- develop the skills involved in listening, speaking, reading, writing, viewing, and presenting in a variety of contexts
- develop critical, creative, and personal approaches to studying and analyzing literary and non-literary texts
- engage with text from different historical periods and a variety of cultures
- explore and analyze aspects of personal, host, and other cultures through literary and non-literary texts
- explore language through a variety of media and modes
- develop a lifelong interest in reading
- apply linguistic and literary concepts and skills in a variety of authentic contexts.

Our MYP unit content and texts will be drawn from the District-driven guaranteed and viable curriculum in the MyPerspectives textbook materials.

At the honors levels, students are expected, in addition to the above, to read assigned full-length texts outside of class, engage in high-level discussions of those texts in class, and be prepared to implement them in the work throughout the semester. Additionally, students will delve deeper into the course content and move quickly through the content.

Any students wishing to push themselves academically, become more confident readers and writers, and be a part of a class with other students with similar academic goals should take this class.

PRE AP ENGLISH 2

1028, 1029

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
- <https://www.google.com/url?q=https://pre-ap.collegeboard.org/courses/course-descriptions/english-2&sa=D&source=editors&ust=1669068278267893&usq=AOvVaw1WizyD1lq9qg2WUI2uh8NX>

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.

ENGLISH 11

1040, 1041

BHS, FHS, LHS 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 12

1060

BHS, FHS, LHS, MVHS, TVHS
(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

AP ENGLISH LITERATURE AND COMPOSITION

1052, 1053

BHS, LHS, MVHS

LHS, 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

GRAPHIC NOVEL

TBD

LHS (Grades 10, 11, 12)

Credit: 0.5 Language Arts

Recommended: AP Language and Composition

Fee: Student pays for textbook and AP Exam

Graphic novels, the wonderful combination of storytelling and sequential art, are one of the many great forms of literacy in which we can find an abundance of meaning. It is a genre for all readers, though visual learners seem to find their comfort zone here due to the many graphics and topics available to explore.

In Graphic Novel, students will:

- learn how to read about them, how to talk about them, how to write them, and how to analyze (and enjoy) them.
- dive deeper into a variety of genres surrounding graphic novels (manga, historical, cultural, etc.), as well as create some of our own.
- work closely with those around us, and independently, to understand what an author's intentions are, and how graphic novels can be used to make active change in our world.
- look at the specifics of what an artist or author is doing in the depths of their writing to speak to their audience, and understand how to mimic this.
- Creativity, art, and creative writing all take place in this class, all while gathering skills in language usage. Expanding our minds by investigating the lives, cultures, and circumstances of people's real and imagined lives, we will begin to search the ways in which we ourselves can impact the world through purposeful expression in a genre that utilizes both visual and written artistry. We can be active participants of change through our stories, and through our art.

IB DP ENGLISH LANGUAGE A: LANGUAGE AND LITERATURE 11 (HL)

1322, 1323

LHS (Grades 11)

Credit: 1.0 Language Arts

This year-long course is the first year in the two-year Diploma Programme. In this highly rigorous course, students can expect to explore a variety of text types and a variety of genres from a global perspective with a focus on close reading and analysis skills. Students can expect these explorations to look deeply and critically at units of study such as "Women in Conflict" and "Journey to the Darker Side of Humanity". Students will learn the nuances of both language devices and literary devices in order to support those analysis skills, which will be demonstrated in a variety of ways not limited to on-demand writing, oral presentations, group presentations, and essays. This practice centers around student choice for both topics and approaches to various class assessments in order to ultimately meet the expectations of the IB exams, which are divided across the two-year program.

IB DP ENGLISH LANGUAGE AND LITERATURE 12 (HL)

1332, 1333

LHS (Grades 12)

Credit: 1.0 Language Arts

This highly rigorous course is ideal for students who seek to be the best thinkers, writers, readers, and speakers in the room. The foundation of this course is analyzing authorial choices in a wide variety of texts and examining how they provide commentary on global issues. This course allows students a high degree of choice in selecting interesting texts for assessments. Text choices range from translated foreign novels to modern works by Kendrick Lamar and Banksy.

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 source

JOURNALISM 1

1116

BHS, LHS, MVHS, TVHS

Credit: .50 Language Arts

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

LITERATURE OF THE ANCIENT WORLD

1107

BHS, MVHS, TVHS

Credit: .50 Language Arts

In Literature of the Ancient World, students will:

- Many stories are retellings of older tales, reworked, reimagined and retold by writers seeking to tell old stories in new ways. As literature continues to reference literature, a reader benefits from exploring these ancient tales. In this class, students explore ancient literature of the Mesopotamians, Hebrews, Christians, et al. as well as the Western texts and literary traditions these influence.

MYTHOLOGY AND SCIENCE FICTION

1110

BHS, MVHS, TVHS

Credit: .50 Language Arts

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

1108

BHS, LHS, MVHS, TVHS

Credit: .50 Language Arts

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

SPEECH - ADVANCED

1121

BHS

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

BAKING AND PASTRY

8040, 8041

*BHS, LHS, TVHS

MVHS (Grades 11, 12)

Credit: 1.0 Applied Arts/CTE

Recommended: Culinary Careers and Nutrition, Catering or ProStart1, and Catering Advanced

*Recommended: Catering, ProStart 1, or other full year culinary coursework or teacher approval for BHS

Fee: \$25 per semester

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

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

CATERING

8006, 8007

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

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

LHS

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

FHS, LHS, MVHS, TVHS

Credit: .50 Applied Arts / CTE

Fee: \$10 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.

Family and Consumer Sciences

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

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.

DESIGN SEMINAR

8142

MVHS

DESIGN SEMINAR IB MYP

8143

LHS

Credit: .50 Applied Arts / CTE

Fee: \$10 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, Education Exploration

Fee: \$10 per semester

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

In Early Childhood Education 101, students will:

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

EARLY CHILDHOOD EDUCATION 102

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.

Family and Consumer Sciences

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

EDUCATION EXPLORATION

8011

LHS

Credit: .50 Applied Arts / CTE

Recommended: Child and Adolescent Development

Fee: \$10

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

Are you interested in learning a out the world of education?

If so, then Education Exploration is the class for you!!! This course will provide you with an overview of the education field along with a look at all the professions with education. You will also discover your own learning style and how your learning style will best fit professions in education.

ELEMENTARY TUTOR

8628, 8629

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

LHS, 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.

Family and Consumer Sciences

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

INTERIOR DESIGN 1

8008

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

Credit: .50 Applied Arts / CTE

Recommended: Design Seminar

Fee: \$15 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.

INTERIOR DESIGN 2

8009

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

Credit: .50 Applied Arts / CTE

Recommended: Interior Design 1

Fee: \$15 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.

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!

Family and Consumer Sciences

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

NUTRITION AND WELLNESS 8020

BHS, LHS, MVHS, TVHS

Credit: .50 Fitness or Applied Arts

Fee: \$15 per semester

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

NUTRITION AND WELLNESS 8020

FHS

Credit: .25 Fitness

Fee: \$15 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.

PROSTART 1 8134, 8135

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

Credit: .50 Applied Arts / CTE – Semester 1

Credit: .50 Social Studies (Economics) – Semester 2

Fee: \$75 per semester

Recommended: ProStart 1 and instructor approval

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

*** College credit may be available**

Did you enjoy ProStart 1?

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

RELATIONSHIPS 8002

LHS, MVHS, TVHS (Grades 11, 12)

Credit: .50 Applied Arts / CTE

Fee: \$5 per semester

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

Family and Consumer Sciences

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

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.

TEEN CHALLENGES AND CHOICES 8000

BHS, LHS, MVHS, TVHS

Credit: .50 Health or Applied Arts/CTE

Fee: \$5 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
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BHS, MVHS, TVHS

HEALTH IB MYP	7631
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LHS

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
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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

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, LHS

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, LHS, MVHS

CONSTRUCTION 2 - INTRO TO CONSTRUCTION & ROUGH CARPENTRY

8318

CONSTRUCTION 2 -INTRO TO FINISH CARPENTRY

8319

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

Not offered at this time

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

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

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: car

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

MANUFACTURING PROCESSES, ENTREPRENEURSHIP AND DESIGN IB MYP.

8438, 8439

LHS

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 Manufacturing, students will:

- 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

PRINCIPLES OF ENGINEERING

8402, 8403

BHS, MVHS

Credit: 1.0 Applied Arts / CTE

Fee: \$15 per semester

Recommended: Introduction to Engineering Design

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

**College credit maybe 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

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

To see more information on our new two-year Automotive Program at Thompson Valley High School, click [here](#).

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, 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

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: Entrepreneurship 1 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

PATHFINDER 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

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 (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

FHS, LHS

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

FHS, LHS, 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 A (S1/S2)

2000, 2001

BHS, FHS, MVHS, TVHS

Credit: 1.0 Math

In Algebra A, students will:

- Parallel the Algebra I curriculum;
- Complete Algebra B before enrolling in Geometry
- Make a two-year commitment to the Algebra I objectives
- Use various problem solving strategies
- Express, interpret and graph functions and use variables to represent relations from tables and graphs

ALGEBRA B (S1/S2)

2006, 2007

BHS, FHS, MVHS, TVHS

Credit: 1.0 Math

In Algebra B, students will:

- Parallel the Algebra I curriculum
- Complete both Algebra A and Algebra B before enrolling in Geometry
- Complete the second year of their commitment to the Algebra I objectives
- Solve linear and quadratic equations and systems of linear equations
- Use ratio, proportion, and direct variation from numerical, geometric, and algebraic perspectives and use the distributive property and order of operations to reorganize algebraic expressions into more useful forms.

ALGEBRA 1

2012, 2013

BHS, FHS, MVHS, TVHS

ALGEBRA 1 IB MYP

2304, 2305

LHS

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.

Mathematics

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.

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

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, "Honors 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 Honors 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)

Mathematics

ALGEBRA 2 HONORS

2052, 2053

MVHS

Credit: 1.0 Math

Recommended: Geometry

In Algebra 2 Honors, students will:

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

ALGEBRA 2 IB MYP/HONORS

2310, 2311

LHS

Credit: 1.0 Math

Recommended: Geometry

In Algebra 2 IB MYP/Honors, 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 AP PRE-CALCULUS

- Algebra 2 Honors

2054, 2055

- AP Pre-Calculus

2070, 2071

LHS

Credit: 1.0 Math – Algebra 2 Honors

Credit: 1.0 Math – Pre-Calculus Honors

Recommended: Geometry

In Algebra 2 Honors and AP Pre-Calculus Honors, 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

Mathematics

ADVANCED ALGEBRA WITH SOCIAL APPLICATIONS

2050, 2051

TVHS (Grades 10-12)

Credit: 1.0 Math

Recommended: Algebra and Geometry

In Advanced Algebra with Social Applications, students will:

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

CALCULUS

2082, 2083

BHS

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

BHS

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.

AP PRE-CALCULUS

2072, 2073

LHS, MVHS, TVHS

Credit: 1.0 Math

Recommended: Algebra 2

In Pre-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, "Honors 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 Honors is the belief that we can prepare every student for higher intellectual engagement by starting the development of skills and acquisition of knowledge as early as possible." (apcentral.collegeboard.com)

COLLEGE ALGEBRA

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

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 BHS, FHS, LHS, MVHS, TVHS	2020, 2021
GEOMETRY IB MYP LHS	2306, 2307

Credit: 1.0 Math
Recommended: Algebra 1

In Geometry IB MYP, 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.

PRE AP GEOMETRY WITH STATISTICS TVHS	2030, 2031
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Credit: 1.0 Math
Recommended: Algebra 1

In Pre-AP Geometry with Statistics, 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, "Honors 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 Honors 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)
- <https://www.google.com/url?q=https://pre-ap.collegeboard.org/courses/course-descriptions/geometry&sa=D&source=editors&ust=1669131093067938&usg=AOvVaw3AaHAZS1P4P14HwmjpigEx>

GEOMETRY HONORS MVHS	2028, 2029
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Credit: 1.0 Math
Recommended: Algebra 1

In Geometry Honors, students will:

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

Mathematics

GEOMETRY IB MYP/HONORS

2300, 2301

LHS

Credit: 1.0 Math

Recommended: Algebra 1 IB MYP/Honors

In Geometry IB MYP/Honors, students will:

- Emphasize a balanced combination of procedure and conceptual understanding focusing on five critical areas:
- using transformations to mathematically analyze and describe objects in the plane
- developing concepts of similarity which are foundational to geometry and its applications
- algebraically describing and analyzing objects in the plane
- measuring and quantifying attributes of two- and three-dimensional objects
- using geometric concepts to model real world objects
- This critical content will be engaged by use of eight mathematical practice standards to facilitate students' ability to transfer and apply their mathematical knowledge to new and novel situations.

GEOMETRY IN CONSTRUCTION

- Geometry

2024, 2025

- Construction

8314, 8315

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

Mathematics

IB DP MATH APPLICATIONS AND INTERPRETATIONS 12 HL

2346, 2347

LHS

Credit: 1.0 Math / Career Pathway Elective for each course

Credit: 1.0 Applied Arts / CTE - Construction

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

In IB DP Math Applications and Interpretations 12 HL students will: Students need to complete DP Math 11 (Calculus AB) before enrolling in DP Math Applications and Interpretations HL. The second year of the course will focus primarily on statistics, while also giving students the opportunity to complete their Math Exploration internal assessment.

IB DP MATH ANALYSIS AND APPROACHES 12 HL

2348, 2349

LHS

Credit: 1.0 Math or 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.

In Math Studies, students will:

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

Mathematics

PROBLEM SOLVING STRATEGIES

2100

MVHS

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, TVHS

Credit: 1.0 Math

Recommended: Algebra 2 (with teacher recommendation)

Fee: Student will pay for textbook

In AP Statistics, students will:

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

STATISTICS

2104, 2105

BHS, MVHS, TVHS

Credit: 1.0 Math

Recommended: Algebra 2

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

TRIGONOMETRY/FUNCTIONS

2060, 2061

BHS, TVHS

Credit: 1.0 Math

Recommended: Algebra 2

In Trigonometry/Functions students, will:

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

Music

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

CHAMBER SINGERS

6022, 6023

LHS, MVHS, TVHS

Credit: 1.0 Fine Arts

Recommended: Audition and/or instructor approval

Fee: \$15 per semester and \$5 per trip travel fee

In Chamber Singers, students will:

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

CHAMBER STRINGS

6026, 6027

LHS, MVHS, TVHS

Credit: 1.0 Fine Arts

Recommended: Audition and/or instructor permission

Fee: \$15 per semester, \$5 per trip travel fee

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

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, 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: 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

TVHS

Credit: .50 Fitness Semester 1

Credit: .50 Fine Arts 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

INTRODUCTION TO GUITAR

6044

BHS, 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

LHS, 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 Beginning, 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

Music

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

***JAZZ ENSEMBLE 2 INTERMEDIATE**

6004, 6005

BHS, LHS, 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 Intermediate, 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 Advanced, 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

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

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

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

LHS

Credit: .50 Career Pathway Elective

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

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

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

TENOR/BASS CHOIR

6136, 6137

LHS, MVHS, TVHS

Credit: 1.0 Fine Arts

Fee: \$15 per semester and \$5 travel fee per trip

In Tenor/Bass Choir, students will:

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

Music

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

MIXED CHOIR

6016, 6017

BHS, FHS, LHS, MVHS

Credit: 1.0 Fine Arts Fee: \$15 per semester and \$5 travel fee per trip

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

The framework and instructional materials in all Honors Arts courses include a deliberate focus on the process of producing creative works, including generating and refining ideas, practicing skills and techniques, revision, reflection, and collaboration.

The foundational concepts, instructional principles, and artistic practices at the heart of the Honors Music courses directly prepare students for participation in the AP Music Theory course as well. Honors students will be given ongoing opportunities to build their skills of analyzing works of music, learn musical terminology, and practice notational and compositional skills.

Participation in Honors Music courses will also prepare students for participation in the AP Capstone sequence of study. AP Capstone is a two-year program comprised of two courses—AP Seminar and AP Research—focusing on skills of research, analysis of sources, constructing arguments, and communicating ideas. Honors Music instruction highlights these skills as well, inviting students to analyze and respond to works of music, develop and refine their own ideas by drawing on a variety of source material, and constructively respond to the work of peers as it develops.

<https://pre-ap.collegeboard.org/courses/course-descriptions/visual-performing-arts>

*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

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

MUSIC EXPLORATION

6078

FHS

Credit: .25 Fine Arts per quarter

Fee: \$15 per semester or \$7.5 per quarter

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 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 2, students will:

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

AP MUSIC THEORY

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

Music

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

*MUSICAL THEATRE

6205

LHS, MVHS, TVHS

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, students will:

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

MUSICAL THEATRE TECHNIQUES

6029

LHS, 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
and \$5 per trip travel
fee

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

Music

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

PERCUSSION/COLORGUARD

6047

LHS

Credit: 0.50 Fine Arts

Fee: \$11 per semester

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

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

In Percussion/Colorguard, students will learn:

- music/movement memorization skills
- reading and applying drill charts
- showmanship and esprit de corps
- Vocabulary specific to the colorguard and percussion sections of the marching band.
- Participate in all scheduled performances, including a summer band camp

*SHOW/JAZZ CHOIR

6020, 6021

BHS, LHS, MVHS, TVHS

Credit: 1.0 Fine Arts

Fee: \$15 per semester and \$5 per trip travel fee

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

In Show/Jazz Choir, students will:

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

SYMPHONIC BAND

6002, 6003

LHS

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

Music

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

SYMPHONIC/MARCHING BAND

6054, 6055

BHS, MVHS, 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 / 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, TVHS

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

PRE AP THEATRE

6674, 6675

TVHS

Credit: 1.0 Fine Arts

Although the College Board does not offer AP courses in theatre, the foundational principles and artistic practices addressed in Honors Theatre courses do relate to the AP Capstone sequence of study. AP Capstone is a two-year program comprised of two courses—AP Seminar and AP Research—focusing on skills of research, analysis of sources, constructing arguments, and communicating ideas. Honors Theatre instruction highlights these skills as well, inviting students to analyze and respond to works of theatre, develop and refine their own ideas by drawing on a variety of source material, and constructively respond to the work of peers as it develops.

TREBLE CHOIR INTERMEDIATE

6130, 6131

LHS, MVHS, TVHS

Credit: 1.0 Elective Fee: \$15 per semester and \$5 per trip travel fee

Recommended: Audition and/or instructor approval

In Treble Choir, students will:

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

Music

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

WIND ENSEMBLE

6036, 6037

LHS

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 performance

TREBLE CHOIR

6132, 6133

BHS, LHS, MVHS, TVHS

Credit: 1.0 Fine Arts

Fee: \$15 per semester and \$5 per trip travel fee

Recommended: Audition or instructor approval only at TVHS

In Treble Choir, students will:

- perform literature written expressly for treble voices
- perform literature from some style periods and the learning of at least one foreign language
- demonstrate proper diction, vocal production, breathing, posture, rhythmic accuracy, and intonation
- attend all choral performances
- determine concert attire with the ensemble and director

TREBLE CHOIR ADVANCED

6134, 6135

LHS, TVHS

Credit: 1.0 Fine Arts

Fee: \$15 per semester and \$5 per trip travel fee

Recommended: Audition and/or instructor approval

In Treble Choir Advanced, students will:

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

Physical Education

AQUATICS and FITNESS

7626

LHS, MVHS, TVHS

Credit: .50 Fitness

In Aquatics and Fitness, students will:

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

FITNESS

7600

BHS, FHS, LHS, MVHS, TVHS

Credit: .50 Fitness

In Fitness, students will:

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

JROTC - LEVEL 1

8618, 8619

BHS, LHS, MVHS, TVHS

Credit: .50 Fitness - Semester 1

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

Fee: \$25 per semester

In JROTC-Level 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 / Career Pathway Elective

Fee: \$25 per semester

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

In Nutrition and Wellness, students will:

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

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 and Fitness, 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

YOGA & FITNESS

7625

TVHS

Credit: .50 Fitness OR Career Pathway Elective Fee: \$10
for equipment upkeep (yoga mats, yoga blocks, etc.)

In Yoga & Fitness, students will:

- Develop skills and knowledge in yoga movement, meditation, and breathing exercises
- Know and understand yoga vocabulary, sequences, poses
- Apply benefits of yoga to improve adolescent health and well-being (puberty, physiology, brain development)
- Apply yoga movement, meditation, and breathing to develop stress management skills, improve physical and mental health, and social emotional learning
- Improve personal flexibility and balance
- Design and create their own yoga sequences to present
- Use yoga as a method of lifelong fitness

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

BIOLOGY IB MYP

3306, 3307

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

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 Honors is the belief that we can prepare every student for higher intellectual engagement by starting the development of skills and acquisition of knowledge as early as possible." (apcentral.collegeboard.com)

BIOLOGY HONORS

3036, 3037

BHS, MVHS

Credit: 1.0 Science

Need course description for BHS

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, 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

COLLEGE BIOLOGY

3032

MVHS

Credit: .50 Science

In College Biology, students:

Examines the fundamental molecular, cellular and genetic principles characterizing plants and animals. Includes cell structure and function, and the metabolic processes of respiration, and photosynthesis, as well as cell reproduction and basic concepts of heredity. The course includes laboratory experience.

CHEMISTRY

3040, 3041

BHS, FHS, LHS, MVHS, TVHS

Credit: 1.0 Science

Recommended: Algebra 1

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

TVHS

Credit: 1.0 Science

Recommended: BHS recommends *Honors* 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
- <https://pre-ap.collegeboard.org/courses/course-descriptions/chemistry>

CHEMISTRY HONORS

3082, 3083

BHS, LHS, MVHS

Credit: 1.0 Science

Recommended: Geophysical Science Honors and Algebra II

Fee: Student pays for textbook.

In Chemistry Honors, students will:

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

Science

AP CHEMISTRY

3044, 3045

BHS, LHS, MVHS, TVHS

Credit: 1.0 Science

Fee: Student pays for textbook and AP Exam

Recommended: Pre-AP or *Honors* 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

BHS, LHS, 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

Science

FORENSIC SCIENCE LHS (11 th and 12 th grade)	3084
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Credit: .50 Science

FHS	3084
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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

FORENSIC SCIENCE	3086, 3087
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TVHS

Credit: 1.0 Science

Recommended: 11th and 12th grade students

In Forensic Science, students will:

- meet selected state standards through the study of scientific method, cell biology, genetics, and science and technology as they apply to CSI (crime scene investigation)
- use small scale and traditional labs and classroom discussion to learn about types of physical evidence
- explore career relevance for those interested in CSI careers

GENETICS	3070
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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
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BHS, FHS, MVHS, TVHS

GEOPHYSICAL LAB IB MYP	3304, 3305
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LHS

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 HONORS	3010, 3011
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BHS, MVHS, TVHS

Credit: 1.0 Science

In Geophysical Lab Honors, students will:

- learn the same skills as in Geophysical Lab Science, but at a more advanced and rigorous level.

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 cat 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

Credit: 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

Science

- develop interpersonal skills in group work during scientific investigations and in oral/written communication

IB DP CHEMISTRY HL

-IB DP CHEMISTRY 11 HL

3322, 3323

-IB DP CHEMISTRY 12 HL

3336, 3337

LHS

Credit: 1.0 Science per year

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

In IB DP Chemistry, students will:

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

Credit: 1.0 Science per year

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

In IB DP Environmental Systems and Societies, students will:

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

*NIGHT ASTRONOMY - MAGNET

3072

BHS (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

*Recommend: Algebra 1

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

AP PHYSICS 1: ALGEBRA-BASED

3056, 3057

BHS, 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

Credit: 1.0 Science

Fee: Student pays for textbook and AP Exam

In AP Physics 2: Algebra-Based, students will:

- explore topics such as fluid statics and dynamics
- thermodynamics with kinetic theory
- PV diagrams and probability; electrical circuits with capacitors
- magnetic fields
- electromagnetism; physical and geometric optics
- quantum, atomic and nuclear physics

AP PHYSICS C: MECHANICS

3060, 3061

LHS

Credit: 1.0 Science

Fee: Student pays for textbook and AP Exam

Recommended: AP Calculus, can be taken concurrently

In AP Physics C: Mechanics, students will:

- study mechanics with Calculus applications including gravitation and rotation
- follow a course outline that prepares students for the AP Physics C exam, mechanics portion
- master problem-solving skills and content equivalent to freshman engineering Physics 1 at a 4-year college

CIVICS	4000
BHS, FHS, MVHS, TVHS	
CIVICS IB MYB	4302

LHS
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 HONORS	4018, 4019
MVHS, TVHS	
Credit: 1.0 Social Studies	

In Civics Honors, students will:

- learn the same skills as in Civics, but at a more advanced and rigorous level. The expectation is that all students can perform well at rigorous academic levels. Secondly, this course is meant to prepare every student for higher intellectual engagement by starting the development of skills and acquisition of knowledge as early as possible

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

ECONOMICS	4060
BHS, FHS, MVHS	
LHS, TVHS (Grade 12)	
Credit: .50 Social Studies	

In Economics, students will:

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

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

IB DP HISTORY OF THE AMERICAS HL

- IB History of Americas 11

4320, 4321

- IB History of Americas 12

4324, 4325

- LHS

Credit: 1.0 Social Studies for each course

Recommended: IB History of Americas 11 or AP US History (***applies only to IB History of Americas 12***)

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.

In IB DP History of the Americas HL, 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 (meets graduation requirement) / Career Pathway Elective 1

Credit: .50 Social Studies (Civics Requirement) / Career Pathway Elective - Semester 2

Fee: \$25 per semester

In JROTC- Level 1, students will:

- Participate in Leadership Education and Training (LET) I consisting of effective communication techniques, Presidential Physical Fitness Program, basic leadership skills, self-awareness skills, emotional intelligence, study skills, Introduction to branches of the Armed Forces. Weapons safety and basic marksmanship skills, goal setting, drug abuse prevention, bullying prevention, basic nutrition, and citizenship through history, drill and ceremonies, civic engagement and US Civics topics.

WORLD HISTORY & GEOGRAPHY

BHS, FHS, MVHS, TVHS

LHS

4316, 4317

Credit 1.0 Social Studies

In World History & Geography students will:

- Acquire and synthesize knowledge by evaluating evidence from a wide range of primary and secondary sources
- Explain complex relationships among events and people through causation, comparison, and continuity and change over time
- Examine and utilize the five themes of geography to see the connections between the physical environment and human culture
- Investigate historical and current issues including the environment, human rights, the Holocaust, global genocide, global citizenship, conflict, resources, and development
- Investigate examples of peace and conflict and how it influences current issues and possible future ones

Social Studies

AP MACROECONOMICS

4062

LHS

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 (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

PSYCHOLOGY 1

4080

BHS, FHS, MVHS, TVHS

LHS (Grades 10, 11, 12)

Credit: .50 Social Studies

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, MVHS, TVHS

LHS (10, 11, 12th grades)

Credit: 1.0 Social Studies

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

Social Studies

- be prepared for psychology in college
- have the opportunity to prepare for the AP Psychology test and receive college credit

PSYCHOLOGY 2

4081

FHS, MVHS, TVHS

Credit: .50 Social Studies

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, FHS, MVHS, TVHS

LHS (Grades 11, 12)

Credit: .50 Social Studies

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

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

PRE AP WORLD HISTORY AND GEOGRAPHY

4050, 4051

TVHS

Credit: 1.0 Social Studies

In Pre AP World History, students will:

- <https://pre-ap.collegeboard.org/courses/course-descriptions/world-history-geography>

WORLD HISTORY AND GEOGRAPHY

4052, 4053

BHS, FHS, LHS, MVHS, TVHS

Credit: 1.0 Social Studies

In Pre AP World History, students will:

- Acquire and synthesize knowledge by evaluating evidence from a wide range of primary and secondary sources
- Explain complex relationships among events and people through causation, comparison, and continuity and change over time
- Examine and utilize the five themes of geography to see the connections between the physical environment and human culture
- Investigate historical and current issues including the environment, human rights, the Holocaust, global genocide, global citizenship, conflict, resources, and development
- Investigate examples of peace and conflict and how it influences current issues and possible future ones

AP WORLD HISTORY: MODERN

4028, 4029

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



Application, information and more are at:

<https://www.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.	I4 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 – IB MYP

French – LHS 7308, 7309

German – LHS 7312, 7313

Spanish – LHS 7316, 7317

Credit: 1.0 World Language

LEVEL 1

French - BHS, MVHS, TVHS 7000, 7001

Spanish - BHS, MVHS, TVHS 7028, 7029

American Sign Language – LHS 7100, 7101

Credit: 1.0 World Language

LEVEL 1 - HONORS

French – not offered at this time 7062, 7063

German – (see LHS above) 7072, 7073

Spanish – BHS, MVHS, TVHS 7082, 7083

Credit: 1.0 World Language

LEVEL 1 - IB MYP/HONORS

French – LHS 7300, 7301

German – LHS 7302, 7303

Spanish – 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

World Languages

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

SPANISH FOR HERITAGE AND NATIVE LEARNERS 1
MVHS, TVHS

7120, 7121

SPANISH FOR HERITAGE AND NATIVE LEARNERS 1 IB MYP
LHS

7140, 7141

Credit: 1.0 World Language: Novice-Mid-Intermediate-Low Proficiency Range
Recommendation: Heritage/Native Spanish Learners

Spanish for Heritage and Native Learners I is designed specifically for native and heritage Spanish learners who are able to read, write, speak with proficiency in Spanish. The purpose of this course is to enable students whose heritage or native language is Spanish to develop, strengthen and maintain Spanish literacy skills (listening, speaking, reading, writing) in Spanish using authentic resources such as videos, novels, informational texts, podcasts, and music that highlight the breadth and depth of the variety of cultures of the countries in the Spanish-speaking world. The course is not designed to teach Spanish, but rather to improve upon skills.

In the Spanish Heritage and Native Learners class, students will

Communicate effectively in more than one language in order to function in a variety of situations and for multiple purposes within the Intermediate proficiency range 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.

World Languages

Communicate and interact with linguistic and 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 reflecting on their progress in using languages for enjoyment, enrichment, and advancement.

SPANISH FOR HERITAGE AND NATIVE LEARNERS 2

7122, 7123

TVHS

*concurrent enrollement credit available, dual college credit may be available- see your school counselor for more information

SPANISH FOR HERITAGE AND NATIVE LEARNERS 2 IB MYP

7142, 7143

LHS

Credit: 1.0 World Language: Novice-High-Intermediate-Mid Proficiency Range

Recommendation: Heritage/Native Spanish Learners

Spanish for Heritage and Native Learners II is designed specifically for native and heritage Spanish learners who already have some oral and written proficiency in Spanish that they will develop further. The purpose of this course is to enable students whose heritage or native language is Spanish to continue to develop, strengthen and maintain Spanish literacy skills (listening, speaking, reading, writing) in Spanish using authentic resources such as videos, novels, informational texts, podcasts, and music that highlight the breadth and depth of the variety of cultures of the countries in the Spanish-speaking world. This is Level II of two courses.

In the Spanish Heritage and Native Learners class, students will

Communicate effectively in more than one language in order to function in a variety of situations and for multiple purposes within the Intermediate proficiency range 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.

World Languages

Communicate and interact with linguistic and 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 reflecting on their progress in using languages for enjoyment, enrichment, and advancement.

DUAL LANGUAGE ADVANCED SPANISH LANGUAGE 4

7180, 7181

LHS, TVHS

Credit:

Pre-requisites: Participated in the TSD Dual Language Immersion K-8 program or by taking a district approved Spanish Language proficiency assessment. The TSD Dual Language High School program is at Loveland High School or Thompson Valley High School.

Dual Language Advanced Spanish 4 focuses on the development of language, literacy, and cultural competencies at the **Intermediate-mid** to **Intermediate-high** levels of proficiency. Students will express their own thoughts, interact with other speakers of the language, and understand oral and written messages in Spanish using the three modes of communication: Interpersonal speaking and writing; Interpretive reading and listening and Presentational speaking and writing. There will be strong emphasis on diverse cultural themes and the Advanced Placement Spanish (**AP Spanish**) themes, using authentic cultural resources from the many Spanish-speaking countries in the world. All Dual Language courses are taught **100% in Spanish**.

In Dual Language Advanced Spanish 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-mid to Intermediate-high proficiency level by

- Interacting and negotiating meaning in spoken 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

World Languages

comparisons of the language studied and their own.

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

LEVEL 2 – IB MYP

<i>French</i> - LHS	7310, 7311
<i>German</i> - LHS	7314, 7315
<i>Spanish</i> - LHS	7318, 7319

Credit: 1.0 World Language

LEVEL 2

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

Credit: 1.0 World Language

LEVEL 2 - HONORS

<i>French</i> – BHS, TVHS	7064, 7065
<i>Spanish</i> – BHS, MVHS, TVHS	7084, 7085

Credit: 1.0 World Language

Recommendation: Successful completion of Level 1

LEVEL 2 - IB MYP/HONORS

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

World Languages

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

French - MVHS, TVHS 7008, 7009

Spanish - BHS, MVHS, TVHS 7036, 7037

Credit: 1.0 World Language Recommendation: Successful completion of Level 2

LEVEL 3 - HONORS

French –TVHS 7066, 7067

Spanish –BHS, MVHS, TVHS 7086, 7087

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

French – MVHS	7010, 7011
German - TVHS	7024, 7025
Spanish - BHS, 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 - HONORS

Spanish –BHS, MVHS, TVHS	7088, 7089
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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

In 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

Spanish – 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

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

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 – MVHS, TVHS

7046, 7047

German – LHS

7058, 7059

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



Advanced Placement Capstone Diploma Program

Thompson Valley High School

AP Capstone™ is a **diploma program** based on two AP courses: **AP Seminar** and **AP Research**. These yearlong courses focus on developing the critical thinking, research, collaboration, time management, and presentation skills you need for college-level work.

AP Seminar

In this course, you will learn to consider an issue from multiple perspectives, identify credible sources, evaluate strengths and weaknesses of arguments, and make logical, evidence-based recommendations. You will investigate a variety of topics through various viewpoints of your choice.

During the course, you will complete a team project and an individual paper and presentation, as well as take a written end-of-course exam. These components contribute to the overall AP Seminar score. AP Seminar is a prerequisite for AP Research. Visit the AP Seminar student home page at <http://apstudent.org/seminar>

AP Research

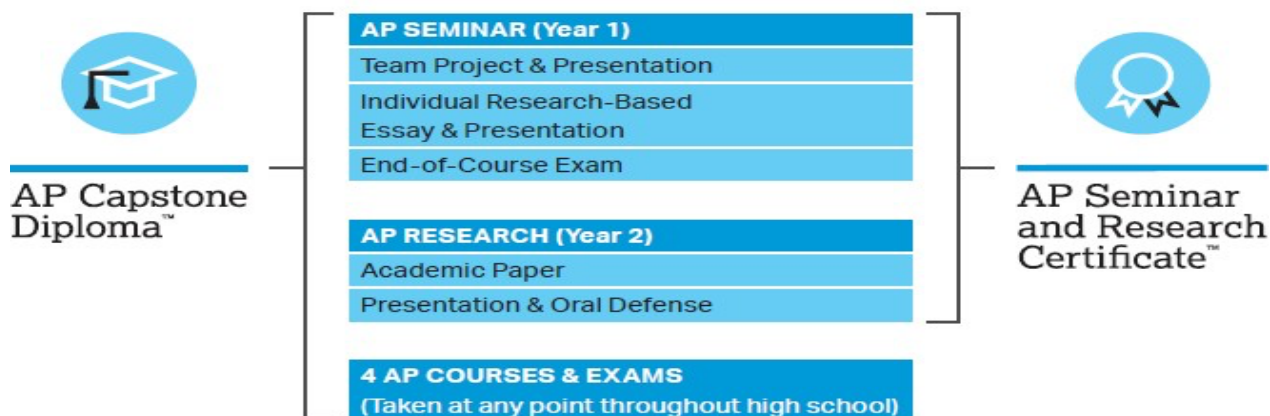
In AP Research, you will explore various research methods and complete an independent research project. Your project can build on a topic, problem, or issue you covered in AP Seminar or on a brand new topic of your own choosing.

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™**.

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



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.

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.



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:

Michelle Ray, LHS IB DP Coordinator michelle.ray@tsd.org, 970.613.5282

Tane Leach, LHS IB MYP Coordinator tane.leach@tsd.org, 970.613.5282

Jeanette Ryan, Assistant Principal jeanette.ryan@tsd.org, 970.613.5277

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

The **Middle Years Programme (MYP)** is open to any 9th and 10th grade student, who is willing to engage in inquiry-based, student-centered learning. Students interact within eight integrated areas of study and learn to view the world through a variety of lenses, known as Global Contexts. Students expand their experience and skills base through a Personal Project in 10th grade.

MYP teachers design thematic, interdisciplinary units to encourage skills that foster an understanding of knowledge within the eight areas of study. They also design lessons that instill the IB Learner Profile in their students. MYP teachers create standards-based assessments where students show what they know and demonstrate how they arrived at that understanding.

The **Diploma Programme (DP)**, founded in 1968 in Geneva, Switzerland, is a rigorous course of college-level study in the 11th and 12th grades. It is widely recognized and honored at universities around the world. The 2-year, full Diploma Programme (DP) encompasses 6 areas of study: English Language and Literature; Spanish, German or French; History of the Americas or Business and Management; Biology and/or Chemistry and Mathematics. A full IB Diploma candidate chooses three of these subjects to complete at the Higher Level (HL) and three at the Standard Level (SL). Full IB Diploma candidates sit for exams in each of the six subject areas in May. The DP Core consists of a Theory of Knowledge course, completing and reflecting upon CAS (Creativity, Activity and Service) experiences and writing an Extended Essay on a subject of their choice.

Students may also choose to take any number of individual IB classes without enrolling as an IB Diploma Candidate. In this case, a student is considered an IB Course candidate. An IB Course candidate will also sit for exams in May. Like full diploma candidates, Course candidates may earn college credit upon successful completion of their IB course work and exams. IB course candidates are highly encouraged to complete the DP Core, as each of the DP courses stem from the DP Core, which gives students excellent preparation for college coursework.

The IB Programmes aim to educate the whole person, developing them mentally, ethically and physically. It offers flexibility for the students to develop their individual interests through ongoing projects, as well as becoming well-rounded through a broad-based curriculum. Additionally, the IB is an internationally-recognized and respected program, taught in over 4,000 schools in 150 countries.

Depending on individual university policies, students may earn college credits based on their IB scores. Specific details about college-IB equivalency scores are available via individual university websites. For your convenience, equivalency scores for some of the most commonly attended universities are available through the LHS IB DP page: <http://thompson.k12.co.us/domain/1373>

Students must earn a minimum overall score on their IB assessments to receive their IB Diploma. IB Diplomas are awarded in July, following graduation. Full IB Diploma candidate testing currently costs approximately \$714 (April 2021) for all six exams, fees, and Theory of Knowledge and Extended Essay evaluation. Current fees for course candidates include a \$164 registration fee and a \$119 fee per subject

exam. For a full diploma candidate, this would total \$714 for all exams required to earn the full IB Diploma. 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 and understanding of a global context
- reflect on learning and share knowledge, view and opinion

IB Diploma Programme (DP)

Course of Study: Grades 11- 12

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

Diploma Programme Core: TOK, EE, CAS

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

Theory of Knowledge (TOK)

This is a one-year course reserved for full IB Diploma candidates. It is taught during the Spring semester of 11th grade and Fall semester of 12th grade. It is an epistemological course (the study of knowledge) about critical thinking and inquiring into the process of knowing.

Extended Essay (EE)

This is an extensive research essay of up to 4,000 words on the topic of the IB Diploma candidate's choice is done under the supervision of an appropriate LHS teacher.

Creativity, Activity and Service (CAS)

With the goal of developing the IB students' interests, an IB Diploma candidate must engage in at least 150 hours of extra-curricular activities over the 11th and 12th grades which the students regularly reflect upon.



IB Diploma Programme (DP)

IB DP LANGUAGE B (SL)

- IB DP French 3	7320, 7321
- IB DP French 4	7330, 7331
- IB DP French 5	7336, 7337
- IB DP German 3	7322, 7323
- IB DP German 4	7332, 7333
- IB DP Spanish 3	7324, 7325
- IB DP Spanish 4	7334, 7335
- IB DP Spanish 5	7338, 7339

Credit: 1.0 World Language for each course

If student has met the World Language graduation requirement this course will count towards the

Career Pathway Advanced Elective Requirement (Class 2021-2024)

Recommended: Successful completion of the prior level

The two-year IB DP Language B program is designed to:

- draw their language and cultural knowledge from a variety of sources, including newspapers, magazines, podcasts, recordings from radio and television programs, and from literature, all built around the three core topics: social relationships; global issues; communication and media, and two of the five options: cultural diversity; customs and traditions; health; leisure; science and technology
- prepare to use the language appropriately in a range of situations and contexts for a variety of purposes
- develop a global communicative approach that is built upon the receptive skills of reading and listening and the production skills of speaking and writing
- explore geographic, ethnic, and cultural knowledge of the speaking world, learning the skills necessary to be socially appropriate in specific situations
- understand spoken language when it is delivered at moderate normal speed by native speakers in various situations, (face-to-face, video, radio, and recordings)
- develop vocabulary and language structure to comprehend and communicate appropriately

IB DP HISTORY OF THE AMERICAS HL

IB History of Americas 11	4320, 4321
IB History of Americas 12 /Economics	4324, 4325

Credits: 1.0 Social Studies / Career Pathway Advanced Elective for each course

This Higher Level History Program is a two-year curriculum. It is a comparative course that integrates the histories of Canada, Latin America and the United States. It is designed to promote an awareness and understanding of the countries in the Western Hemisphere through a comparative analysis of cultural, political, social and economic issues. The second year includes a study of the Principles of Economics during the first semester.

Students will:

- be able to assess the relevance, reliability and importance of historical materials
- be able to weigh the evidence presented in historical evidence
- be able to analyze and interpret primary sources (historical documents, maps, statistical tables, and pictorial and graphic evidence)
- write essay examinations, analytical and research papers
- express themselves with clarity, precision and know how to cite sources and credit the writing and ideas of others
- develop critical thinking skills by applying economic theory to historical inquiry

IB DP THEORY OF KNOWLEDGE (TOK)

-Grade 11

4332

-Grade 12

4330

LHS

Credit: .50 Career Pathway Elective for each course

This course will be taught as a student-centered seminar. This course will be taught as a student-centered seminar with a focus on discussion. TOK is mandatory for full diploma candidates in order to fulfill the IB core requirements. However, any student may take TOK as a course candidate and will be offered an alternative to completing the Extended Essay and CAS (Creativity, Activity and Service).

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 or the alternative assessment is required for enrollment in TOK.

Extended Learning Option

ELO

9898, 9899

TVHS

Extended Learning Option (ELO) is a time dedicated for students to fulfill their academic and their social emotional needs. Students have the choice to work on any academic work with access to their teachers as needed for tutoring. Students also have the opportunity to participate in engagement, enrichment, intervention sessions responsive to the students needs (e.g., AP study sessions, study halls, tutoring, clubs and activities of interest) and can extend their learning in the various topics of their choice.

ELO

9896, 9897

MVHS

Extended Learning Opportunity (ELO) is designed to support students as they transition through high school and prepare for college and career opportunities beyond high school. Throughout Extended Learning Opportunity (ELO) students' academic progress will be monitored with regular grade checks. There will be a strong emphasis on organizational skills and completion of the ICAP (Individual Career and Academic Plan). Students will spend time building a positive classroom and school community and will be supported by their ELO teacher. ELO will also be the time in which student assemblies, guest speakers, and grade level meetings occur so as not to disrupt the regular classroom environment. Extended Learning Opportunity (ELO) curriculum, activities, and events will center around the following six components:

1. Social Emotional Learning
2. Belonging, Involvement, and Community
3. On-Track Graduation
4. College, Career, and Community Readiness
5. Positive Digital Citizenship
6. Instructional Strategies for Success

STUDENT LEADERSHIP/HOUSE SYSTEM

FHS

The staff at Ferguson High School value the small community atmosphere that Ferguson High School can offer. Our house system is designed to foster academic, social, intellectual, and emotional wellbeing in addition to being a time where we can establish and maintain a safe and supportive school culture and build leadership skills in our students.

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 an 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

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 during 8th-grade registration.

The LISA application can be downloaded at: <https://mvhs.tsd.org/> (click on the LISA link) or picked up at Mountain View High School in the Indian Peaks Office. Applications can be submitted online or turned in at the MVHS Indian Peaks Office.

LISA
c/o Indian Peaks Office
3500 Mountain Lion Drive
Loveland, CO 80537



LISA Required Courses

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 danielle.balliet@tsd.org or call 970.613.6866.

LISA Courses

LISA HONORS ENGLISH 9

1200, 1201

Credit: 1.0 Language Arts

In LISA Honors 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 HONORS ENGLISH 10

1030, 1031

Credit: 1.0 Language Arts

In English 10 LISA Honors, students will:

- use the visual and performing arts as an emphasis to learn the content listed below
- 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

LISA HONORS CIVICS

4200, 4201

Credit: 1.0 Social Studies

In LISA Honors 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 HONORS CIVICS INTEGRATED WITH ECONOMICS S1/S2

4016, 4017

Credit: 1.0 Social Studies

In LISA Honors 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 Courses

LISA HONORS WORLD HISTORY & GEOGRAPHY 1	4210
LISA HONORS WORLD HISTORY & GEOGRAPHY 2	4211

Credit: 1.0 Social Studies

In LISA Honors 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 HONORS GEOPHYSICAL S1/S2	3006, 3007
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Credit: 1.0 Science

In Geophysical LISA Honors, 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 HONORS BIOLOGY S1/S2	3038, 3039
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Credit: 1.0 Science

In LISA Honors 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
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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
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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 HONORS MODERN AMERICA AND FILM S1/S2	4214, 4215
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Credit: 1.0

Social Studies

LISA Courses

In Modern America and Film LISA Honors, students will:

- use the film, visual and performing arts as an emphasis to learn the content listed below
- 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

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.

INTRODUCTION TO ENGINEERING DESIGN

8400, 8401

BHS, MVHS

Credit: 1.0 Applied Arts / CTE

Fee: \$30 per semester

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 2025

Curriculum Focus	Minimum Required Credits	Course Name	Credits	Traditional Grade level
Science	4	Pre-AP Geophysical Science and Pre-AP Biology	2.0	9
		Pre-AP Chem (not req. for STEM, but prereq for AP Chem)	1.0	10
		AP Biology or AP Environmental Sci	1.0	10,11,12
		AP Chemistry Or AP Physics	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 Alg 1 as a freshman will need to take 2 math classes in one year to be able to take an AP math class. (* preferred year to double up)</i>		
		<u>AP Stats Path</u>		
		<u>AP Calc Path</u>		
		Alg1/ Geom OR Alg 1/ Geom OR	1 or 2	9
		* Geom/ Alg 2 * Geom/Alg 2	1 or 2	10
		Trig OR Pre-Calc	1	11
		Trig/ AP Statistics AP Calc AB	1 or 2	12
Math/Sci	0.5	Senior Research	0.5	12
Language Arts	4	English 9 or Pre-AP	1.0	9
		English 10 or Pre-AP	1.0	10
		English 11 or AP English Language	1.0	11
		English 12 or College Comp.	0.5	12
Social Studies	3	Civics	0.5	9
		World Geography or AP Human Geography or World History	1.0	10
		Modern America or AP US History	1.0	11
		Economics	0.5	12
Physical Ed.	1	Health	0.5	9
		Fitness	0.5	9
World Language	2	Spanish OR French (2 years of same)	2.0	9-12
Applied Arts	1.5	<u>Project Lead the Way</u> - Choices (1.0 credit required)		
		Intro to Engineering	1.0	9-12
		Principles of Engineering	1.0	10-12
<i>Please note: It's better to take these classes sooner rather than later in case there are scheduling conflicts.</i>		• Computer IntegrArtl Manufacturing	1.0	10-12
		Environmental Sustainability	1.0	10-12
		Robotics	0.5	9-12
		<u>Business</u> - Choices (0.5 credit required)		
		Web Design	0.5	9-12
		Computer Graphics 1-4	0.5	9-12
		Computer Applications	0.5	9-12
		Programing Concepts	0.5	9-12

		AP Computer Science A	0.5	10-12
		AP Computer Science Principles	0.5	9-12
Fine Arts	0.5	Music		
		Artl		
Career Pathways	3.5	This is the category of any additional credits that reach the minimum for a district diploma (24 credits) . STEM's requirements cover 3.5 of the 7.0 needed credits.		

STEM Required Courses

STEM Program Course Requirements Class of 2025 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 2025

	Freshman Year	Sophomore Year	Junior Year	Senior Year
1	English 9 (1.0)	English 10 (1.0)	English 11 (1.0)	English 12 (1.0)
2	Math (1.0)	Math (1.0)	Math (1.0)	AP Math (1.0)
3	PreAP GeoPhys (1.0)	PreAP Chemistry (1.0) (not req. for STEM, but prereq for AP Chem)	AP Biological Req (1.0)	AP Physical Req (1.0)
4	PreAP Biology (1.0)	World His or Geo (1.0)	Modern America (1.0)	Sr Research (0.5)/Econ (0.5)
5	Civics (0.5)/			
6	Health (0.5)/ Fitness (0.5)			
7				
8				

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

- **0.5 Technology Credit** - Choose from: Web Design, Computer Applications (General or Advanced), Programming Concepts, Computer Graphics, & AP Computer Science
- **1.0 Engineering Credit** - Choose from: Intro to Engineering, Principles of Engineering, Computer Integrated Manufacturing, & Environmental Sustainability
- **2.0 credits of the same World Language** - Choose from Spanish or French
- **0.5 Credit of Fine Art** - Choose from Visual Arts or Music
- **3.5 Career Pathway Electives** - In order to graduate with a 24 Credit District Diploma, 7.0 credits of career pathway electives are required. However, the STEM requirements include an extra credit of science, math,

applied arts and half a credit of the senior research class, meaning only an additional 3.5 credits must be taken.

- *28 Credit Distinction Diploma*: need additional 7.5 credits
- **Additional Graduation Requirement of 20 hours community service**

Note: Pre-AP Chemistry is not required for the STEM Diploma, but is a prerequisite for AP Chemistry if that is the desired path for the college level physical science requirement.

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 Thompson Valley for TOL or the TSD admin building for SOARS, 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

WORK-BASED LEARNING OVERVIEW

www.thompsonschoools.org/WBL

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.

All Work-Based Learning opportunities are posted and requested in Xello (see next page for more information and instructions).

Internship and Apprenticeship represent the highest level of work-based learning opportunities offered by the Thompson School District, and both fulfill the Career Pathway Elective graduation requirement for high school students.

INTERNSHIP An 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
- **Internship Requirements/Prerequisites:** These are typical general requirements to participate in an Internship. Businesses may have additional requirements depending on their industry or the specific position.
 - 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
- **Credits and Scheduling:**
 - Career Pathways Elective
 - Graded S/U (pass/fail). Does not impact GPA.
 - Credits assigned based on number of hours complete in increments of 32.5 hours = .25 credits
 - Internships during the school year are typically 2 or more class periods long and usually take place during 1 semester, but may be repeated. You may be asked to drop another elective or move a core class to another semester to accommodate the internship.
 - Summer internships (June to August) coordinated by community partners are also available.

APPRENTICESHIP An apprenticeship is an employer-driven form on experiential learning/onboarding comprised of the following elements:

- Paid on-the-job training (it's a job!)
- Related classroom instruction that increases the student/employee's skill level and wages
- Industry-recognized credential(s) or certificate(s)
- **Apprenticeship Requirements/Prerequisites:** These are typical general requirements to participate in an Apprenticeship. These are general requirements to participate. Businesses may have additional requirements depending on their industry or the specific position.
 - Juniors or Seniors (apply as a sophomore or junior). Must be 16 at start of apprenticeship.
 - On-track for on-time graduation from high school
 - Strong attendance and positive behavior
 - Must provide own transportation
 - Employer makes final hiring decisions and may have additional requirements (drug screen, background check, vaccinations, etc.)

- **Credits and Scheduling:**
 - Career Pathways Elective
 - Graded S/U (pass/fail). Does not impact GPA.
 - Apprentices earn 1.5 elective credits per semester. Minimum of 195 hours at worksite per semester, approximately 12-16 hours/week during junior year, and 20-24 hours/week during senior year. Students may work more hours during breaks and summer.
 - Apprenticeships are 2-3 years in length and are typically scheduled over 3 or more class periods. Students work part time and attend school part time. You may be asked to drop another elective or move a core class to another semester to accommodate the apprenticeship. Apprentices are scheduled with a morning or afternoon schedule or full days on the block days schedule, depending on business needs or student schedule constraints.
- **CareerWise Colorado:** The primary apprenticeship program that TSD participates in is CareerWise Colorado.
 - 2 and 3 year apprenticeships, Department of Labor registered apprenticeships
 - Earn \$30,000-\$40,000 in wages over the course of the apprenticeship
 - Earn debt-free college credit (or other training) related to the apprenticeship
 - Earn a nationally recognized credential or certificate
 - Available positions and employers vary from year to year. Positions have been developed in the following career areas: Business Operations, Construction, Education, Financial Services, Healthcare, Hospitality, IT, Manufacturing and Real Estate Management.
 - When to Apply:
 - Fall Hiring Cycle: Apply September through November, positions start in January.
 - Spring Hiring Cycle: February through April, positions start in June.
 - Application Process:
 - Request positions in Xello. Once your eligibility is approved, you will create a student profile in the CareerWise Colorado Hiring Hub and apply for available positions. Apply early for best opportunity.
 - Once hired, we will work with your counselor and employer to determine your class and work schedule.
- **Annual CareerWise Apprentice Positions from TSD - open to TSD Students Only!:**
 - **IT Support Technician - TSD Innovative Technology Services**
 - **Do you like working with computers and technology? As a ITS Support Tech YOU CAN:**
 - Provide tier 1 support to clients regarding technology related problems/questions as well as providing technical advice and basic how-to instruction.
 - Troubleshoot/support/install/repair district equipment, operating system software, and network software connected to LAN/WAN and perform basic device maintenance, software updates, and device imaging.
 - **Future Educator / Paraprofessional - TSD Learning Services**
 - **Are you interested in becoming a Teacher or working in Education? Learn, grow, and develop as an educator where YOU CAN:**
 - Provide academic support/assistance to students and assist certified staff in planning and carrying out daily lessons and activities.
 - Under direction of certified staff, teach academic, physical, language, and social and emotional skills in small and large groups in order to meet academic, and social-emotional goals.

Pathfinder Work-Based Learning Program

XELLO WORK-BASED LEARNING NETWORK



www.thompsonschoools.org/xello

XELLO is a career and college readiness software program available to TSD students in grades 6-12 helps students create their very own, unique roadmap for future success, enabling them to discover their own personalized pathway through self-knowledge, exploration, and planning.

TSD is part of a regional XELLO Work-Based Learning Network that allows high school students to connect with local businesses and organizations to bring their career and college exploration to life while gaining valuable workplace-readiness skills.

Through this secure platform, **Community Partners:**

- **Offer career coaching** and answer student questions about careers and college.
- **Provide work-based learning opportunities to students and educators** such as *job shadows, internships, apprenticeships, industry and worksite tours, informational interviews, and more.*
- **Post part-time/summer jobs or post-secondary career opportunities** as well as **volunteer opportunities.**

How to View and Request Work-Based Learning Opportunities in XELLO:

1) LOG-IN TO XELLO

- Log in to your Clever portal using your TSD credentials. clever.com/in/thompson
- Under the College and Career section, click on the grey Xello tile.

2) EXPLORE OPTIONS

- From your Xello Student Dashboard, Click on the EXPLORE OPTIONS tab at the top of the page.
- At the bottom of the Explore Options page, click on the OPPORTUNITIES "Let's Go" button.

3) DISCOVER OPPORTUNITIES

- Use the Filter button to view WBL Opportunities by:
 - Type (Internships, Apprenticeships, Job Shadows, etc.)
 - Career Cluster (Health Science, Manufacturing, Hospitality & Tourism, etc.)
 - Location - Our XELLO WBL Network includes companies in Loveland, Berthoud, Fort Collins, Estes Park, Windsor, Longmont, and more!

4) REQUEST

- Review the details of an Opportunity and click REQUEST to start the process.
- You will be contacted by your school's WBL Coordinator to meet and discuss the opportunity, your eligibility/availability, and review application instructions.

Help Opportunities find YOU!

Jump start your XELLO Profile so we can send you Opportunities that align with your career interests!

Visit thompsonschoools.org/xello to learn more and use the [Xello Jump Start Guide](#) to:

- A. Personalize your Xello profile
- B. Discover careers that match your interests and personality with the Career Matchmaker Quiz
- C. Save your favorite careers and post-secondary schools to your profile



Thompson Valley High School - Automotive Systems

[Basic Electrical Systems, Automotive Maintenance and Light Repair, Electrical Systems](#)
[Diagnostics and Repair](#)

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

Semester 1 -	Semester 2
Introduction to Automotive Service A	Maintenance and Light Repair B
Maintenance and Light Repair A	Maintenance and Light Repair II A

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

Semester 3	Semester 4
Maintenance and Light Repair II B	Electrical Systems Diagnostics and Repair
Basic Automotive Electricity	WBL: Transportation Pathways

Program Overview

Students will receive training in proper tool usage, shop safety and basic electrical systems. Students will become knowledgeable in brake systems, steering and suspension systems, drivetrain systems and engine operations.

Credits

- **High School/College Credit:**
- Semester 1: CTE: 1.0, Concurrent Enrollment (AIMS): 2 credits
- Semester 2: CTE: 1.0, Concurrent Enrollment (AIMS): 2 credits
- Semester 3: CTE: 1.0, Concurrent Enrollment (AIMS): 4 credits
- Semester 4: CTE: 1.0, Concurrent Enrollment (AIMS): 2 credits

Industry Credentials & Certifications

- Semester 2: Pollution Prevention Credential
- Semester 4: Automotive Service Excellence (ASE) Repair Technician Certification

Student Outcomes

- Students will be introduced to shop safety, tool identification and usage, diagnostic equipment, automotive systems, tires and wheels, braking systems, lubrication systems, and preventative maintenance.
- Basic electrical theory, circuit designs, wiring methods and multimeter usage.

Career Information

CO Average Entry Level Automotive Tech Employee-related Salaries

- Lube/Tire Technician-\$31,200
- Automotive Service Technician-\$37,440
- Automotive Mechanic-\$52,000
- Automotive Service Manager-\$82,000

For More Information

Please visit www.thompsonschoools.org/CTE



Thompson School Valley High School-Welding (available to all students in district)

[Welding Safety, Gas Metal Arc Welding, Shielded Metal Arc I](#)

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

Semester 1

Safety for Welding - 5743 - 1 college credit
Basic Shielded Metal Arc I - 4 college credits
Gas Metal Arc Welding - 5683 - 4 college credits

Program Overview

Let the sparks fly! This program is great for students interested in learning basic welding & metal fabrication techniques. 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.

Credits

- Semester 1: CTE: 1.0, Concurrent Enrollment (FRCC): 9 credits

Industry Credentials & Certifications

- N/A

Student Outcomes

In 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
- Identifying and applying shop safety procedures
- Cover welding in all positions and on various joint configurations using the Gas Metal Arc Welding (Metal Inert Gas) welding process and flux core welding on carbon steel
- Stainless steel and aluminum.
- Student should be familiar with basic metallurgy pertaining to the weldability of metals, structural joints, and safety in the welding industry

In 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

Career Information

CO Average Entry Level Automotive Tech Employee-related Salaries

- Welding Machine Operator-\$33,500
- Welding Inspector-\$55,150
- Welding Technician-\$40,000

For More Information

Please visit www.thompsonschoools.org/CTE



Thompson Career Campus - Geographical Information Systems

Cartography, Vector-Based Information Systems, Global Positioning Systems, Database Management

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

Semester 1 - Vector-Based Information Systems

Geographical Information Systems I (AM or PM TBD) - CPT 5320

Semester 2 - Global Positioning Systems and Intro to Cartography

Geographical Information Systems II (AM or PM TBD) - CPT 5322

Program Overview

This is a FRCC Campus Select and TCC partnership program. Students are considered FRCC Campus Select students. Students will explore and learn how to use computer hardware components, software programs, and their connections used in GIS technology. The Geographical Information Systems (GIS) coursework and certification will provide work-related training for individuals who intend to go into various career pathways such as engineering, transportation systems, city planning, community development, environmental sciences, technology, space sciences, marketing, natural resources, health, law enforcement, cartography, real estate development, geology, architecture, disaster recovery, and emergency response. This course provides instruction in using data from satellite technologies and promotes critical thinking skills in analyzing data. This course enables collaboration, problem-solving, and communication skills.

Credits

- Semester 1: CTE: .5, ELA: .5, Science: .5, Concurrent Enrollment (FRCC): credits
- Semester 2: CTE: .5, ELA: .5, Math: .5, Concurrent Enrollment (FRCC): credits

Industry Credentials & Certifications

**Summer course offered. Students may be responsible to pay for the course. The summer course is necessary for the completion of the FRCC certificate.

Student Outcomes

- Students must earn a 70% or higher to continue in the pathway.
- Students will explore concepts and introductory coursework in Geographical Information Systems (GIS)
- Students will explore vector-based Geographic Information Systems (GIS) concepts utilizing critical thinking and technology literacy.
- Students will examine a broad range of map types, emphasizing maps as a communication system with symbology and specific organizational hierarchies.
- Students will learn essential cartographic principles and practices used in designing maps.
- Students will learn about cartographic principles that result in effective map communication(s), qualitative messaging, and quantitative information.
- Students will explore new GIS terminology, hardware, and technological principles in GPS.
- Students will receive an introduction to the fundamentals of using a basic hand-held GPS unit.
- Students will learn the fundamentals of mapping and map reading
- Students will create projects that integrate GPS data within ArcView projects

- Students will develop methods and procedures for geographic information systems data, data management, and the complex relationships between data files
- Students will learn about GIS essential components and processes of successful data
- Students will have a basic understanding of databases and how to use them in a professional GIS environment.
- Students will gain practical experience in designing and using a GIS database.

Career Information

CO Average Entry Level GIS Employee-related Salaries

- | | |
|--------------------------------------|--|
| • CAD Drafter (\$40,000) | • Land Survey Technician (\$50,000) |
| • GIS Technician (\$40,000) | • GIS Analyst (\$51,000) |
| • Survey CAD Technician (\$41,000) | • Geographic Information Systems Specialist (\$56,000) |
| • Cartographic Technician (\$46,000) | • Senior GIS Project Manager (\$100,000) |
| • GIS Administrator (\$80,000) | |

For More Information

Please visit tcc.tsd.org or email cte@tsd.org

Students must apply to be considered for any of the pathways. The application can be found at tcc.tsd.org



Thompson Career Campus – Design & Manufacturing

Computer-Aided Drafting/Design, CNC Machining, PLC's, Manufacturing Processes

YEAR 1 All coursework and course sequencing/credit to be determined in collaboration with AIMS Community College using a blended learning model.

Semester 1

Principles of Manufacturing A - CPT 5000

Principles of Manufacturing B - CPT 5002

Semester 2

Manufacturing Technology A - CPT 5004

Manufacturing Technology B - CPT 5002

YEAR 2 All coursework and course sequencing/credit to be determined in collaboration with AIMS Community College using a blended learning model.

Semester 3

Manufacturing Technology II A - CPT 5010

Manufacturing Technology II B - CPT 5012

Semester 4

Manufacturing Pathway - CPT 5014

WBL: Manufacturing Pathway - CPT 5016

Program Overview

Students will explore and learn how to use cutting edge technology in areas such as computer aided drafting (CAD) and computer aided machining (CAM). Students will study and learn about advanced CAD/CAM, manufacturing processes Programmable Logic Controllers (PLC's), and about the theoretical and operational characteristics of CNC machining. The Manufacturing and Design program is proud to use a blended learning model.

Credits

- Semester 1: CTE: .5, ELA: .5, Science: .5, Concurrent Enrollment (AIMS):
- Semester 2: CTE: .5, ELA: .5, Math: .5, Concurrent Enrollment (AIMS):
- Semester 3: CTE: .5, ELA: .5, Science: .5, Concurrent Enrollment (AIMS):
- Semester 4: CTE: .5, ELA: .5, Work Based Learning: .5, Concurrent Enrollment (AIMS):

Industry Credentials & Certifications

- Semester 1: OSHA 10 – Manufacturing
- Semester 2: Manufacturing Association (CMfgA) from SME ToolingU
- Semester 3: MSSC Certified Production Technician (CPT)
- Semester 4: Solidworks
- All pathways offer industry certification(s) that meet the Graduation Guidelines for College & Career-Readiness for English & Math. See website for details.

Student Outcomes

- Explore concepts and introductory coursework in manufacturing production processes
- Manufacturing troubleshooting, maintenance, and operations
- Learn about design in the manufacturing industry and enterprise
- Review simple math skills and build upon engineering based principles of mathematics and working through problem solving tasks and assignments
- Learn to use and apply a CAD model along with the origins of measurement in manufacturing, calibration, true measurement, measurement error, and maintaining quality in manufacturing
- Receive training in Inventor and blueprint reading
- Demonstrate proper safety procedures for manufacturing processes and material handling

- Plan, design, and create a product that will tie student learning of manufacturing with a community focused goal
- Learn how programmable logic controllers manipulate industrial robotic arms, the design of robots, and the construction of robots

Career Information

CO Average Entry Level Salary

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

About 4.8 million manufacturing jobs are predicted through 2028.

For More Information

Please visit tcc.tsd.org or email cte@tsd.org. Students must apply to be considered for any of the pathways. The application can be found at tcc.tsd.org.



Thompson Career Campus - Construction Skilled Trades

Construction, Electrical, Plumbing & Carpentry

YEAR 1 All coursework and course sequencing/credit to be determined in collaboration with AIMS Community College using a blended learning model.

Semester 1	Semester 2
Principles of Construction A- CPT 5100	Carpentry Technology B - CPT 5104
Principles of Carpentry A - CPT 5102	Mech, Elect & Plumb Sys A - CPT 5106

YEAR 2 All coursework and course sequencing/credit to be determined in collaboration with AIMS Community College using a blended learning model.

Semester 3	Semester 4
Mech, Elect & Plumb Sys B - CPT 5110	Carpentry Technology II B - CPT 5114
Carpentry Technology II A - CPT 5112	WBL: Construction Pathway - CPT 5116

Program Overview

Students will receive advanced hands-on experience in construction and construction-related occupations such as carpentry, electrical, plumbing and heating, ventilation and air conditioning (HVAC). The Construction Skilled Trades program is proud to use a blended learning model.

Career Information

CO Average Entry Level Salary

- Plumbing Apprentice - \$33,900
- Electrician Journeyman - \$45,700
- HVAC Technician - \$51,800

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

Credits

- Semester 1: CTE: .5, ELA: .5, Science: .5, Concurrent Enrollment (AIMS):
- Semester 2: CTE: .5, ELA: .5, Math: .5, Concurrent Enrollment (AIMS):
- Semester 3: CTE: .5, ELA: .5, Science: .5, Concurrent Enrollment (AIMS):
- Semester 4: CTE: .5, ELA: .5, Work Based Learning: .5, Concurrent Enrollment (AIMS):

Industry Credentials and Certifications

- Semester 1: OSHA 10 - Construction, HBI PACT CORE
- Semester 2: HBI PACT CARPENTRY
- Semester 3: HBI PACT ELECTRICAL
- Semester 4: HBI PLUMBING
- All pathways offer industry certification(s) that meet the Graduation Guidelines for College & Career-Readiness for English & Math. See website for details.

Student Outcomes

- Learn about career readiness within the construction trades industry to include operating heavy machinery/equipment, and blueprint reading
- Learn about the basics of welding including soldering
- Learn about the basics of electrical which includes working with electrical boxes, receptacles, switches, circuits, wiring protection devices, installation of appliances, commercial wiring, and electrical panels
- Learn about the basics of plumbing technology processes, pipefitting, reading plumbing blueprints, and

the installation of fixtures and appliances

- Expand on their knowledge of AC/DC currents, electrical circuits, and fundamental electronics
- Demonstrate their understanding of electrical power/generation, distribution and safety with electricity. Learn about the National Electrical Code, about boxes and enclosures, cables, raceways, conductors, load calculations of one family dwellings, service and electrical equipment for one family dwellings, non-dwelling load calculations, services, feeders, equipment, and hazardous locations
- Learn to plan, install, and service basic plumbing systems
- Learn how to install fixtures, piping and piping equipment, and controls
- Study building plans/blueprints, determine the layout of a system, determine and mark the positions where connections and fixtures will occur, assemble a piping system and assemble and install valves and fittings, and check the system for leaks
- Review mathematical concepts such as decimals, fractions, percentages, metric conversions, units of measurement, ratios, and reading and interpreting data. Other topics include finding the area, volume, drop, pitch, and run

For More Information

Please visit tcc.tsd.org or email cte@tsd.org. Students must apply to be considered for any of the pathways. The application can be found at tcc.tsd.org.



Thompson Career Campus – Health Sciences

Certified Nursing Assistant, Medical Terminology, & Medical Assistant

YEAR 1 All coursework and course sequencing/credit to be determined in collaboration with Front Range Community College using a blended learning model.

Semester 1

Health Science 1 AM - CPT 5200

Health Science 1 PM - CPT 5202

Semester 2

Health Science 1 AM - CPT 5204

Health Science 1 PM - CPT 5202

YEAR 2 All coursework and course sequencing/credit to be determined in collaboration with Front Range Community College using a blended learning model.

Semester 3

Health Science 2 AM - CPT 5210

Health Science 2 PM - CPT 5212

Semester 4

Health Science 2 AM - CPT 5214

Health Science 2 PM - CPT 5216

Program Overview

Students will receive training in therapeutic, diagnostic and supportive care services. In this pathway, students will become knowledgeable about health informatics, medical research and research development, and will learn how to assist with medical examinations, implement billing best practices, deliver quality patient and residential care as a certified nursing assistant. The Health Science program is proud to use a blended learning model.

Career Information

CO Average Entry Level Salary

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

Credits

- Semester 1: CTE: 1.0, Science: 0.5, Concurrent Enrollment (FRCC):
- Semester 2: CTE: 1.0, Science: 0.5, Concurrent Enrollment (FRCC):
- Semester 3: CTE: 1.0, ELA: 0.5, Concurrent Enrollment (FRCC):
- Semester 4: CTE: 1.0, ELA: 0.5, Concurrent Enrollment (FRCC):

Industry Credentials & Certifications

- Semester 1: Certified Nursing Assistant (CNA)
- Semester 2: Medical Office Administrative Assistant (MOAA), CPR
- Semester 3: None
- Semester 4: Medical Assistant (MA) - Requires additional summer coursework through FRCC (out of pocket expense for students).
- All pathways offer industry certification(s) that meet the Graduation Guidelines for College & Career-Readiness for English & Math. See website for details.

Student Outcomes – Health Careers and Health Science Studies

- Learn about and practice the fundamental skills of becoming a certified nursing assistant
- Explore and learn beginning nursing skills, communication skills, personal care skills, safety, and emergency care issues involved in the healthcare industry
- Know and understand OSHA and HIPAA regulations
- Understand professionalism and how this looks in the medical profession while understanding ethical behaviors and maintaining cultural sensitivity
- Learn about mental health care including common symptomatology and diagnoses
- Participate in patient care and clinical studies to include: patient safety, foundational anatomy and physiology coursework, patient care principles, patient communication, data collection and reporting,

and understanding legal issues in the healthcare industry, participate in advanced clinical coursework to include: surgical prep, performing basic urinalysis, feeding patients, transporting patients, preventing infection, taking vitals and recording vitals, assisting patients with walking after procedures, applying and changing dressing, attending to skin care, identifying patient's needs, lifting and transferring patients, collecting specimens, maintaining a clean environment, and following care plans

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

For More Information

Please visit tcc.tsd.org or email cte@tsd.org. Students must apply to be considered for any of the pathways. The application can be found at tcc.tsd.org.



Thompson Career Campus – IT/Cybersecurity

Network, Programming, Cyber Security

YEAR 1 All coursework and course sequencing/credit to be determined in collaboration with Front Range Community College using a blended learning model.	
Semester 1	Semester 2
IT Fundamentals - CPT 5301	Cybersecurity Fundamentals - CPT 5305
Networking I – CPT 5303	Principles of Computing – CPT 5037
YEAR 2 All coursework and course sequencing/credit to be determined in collaboration with Front Range Community College using a blended learning model.	
Semester 3	Semester 4
Networking II Infrastructure – CPT 5311	Networking II Servers – CPT 5317
Advanced Cybersecurity – CPT 5313	WBL IT Program – CPT 5400
	IT Support – CPT 5315

Program Overview

In the IT/Cybersecurity pathway students will learn cutting edge technology and have the ability to earn a variety of industry technical certifications and introduce students to cloud computing & security, networking, coding, digital forensics cyber safety. The IT/Cybersecurity program is proud to use a blended learning model.

Career Information

CO Average Entry Level Salary

- Junior Coder - \$54,500
- Computer Support Technician - \$56,700
- Information Security Analyst - \$57,500
- Quality Assurance Tester - \$58,100

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

Credits

- Semester 1: CTE: .5, ELA: .5, Science: .5, Concurrent Enrollment (FRCC):
- Semester 2: CTE: .5, ELA: .5, Math: .5, Concurrent Enrollment (AIMS):
- Semester 3: CTE: .5, ELA: .5, Math: .5, Concurrent Enrollment (FRCC):
- Semester 4: CTE: .5, ELA: .5, Work Based Learning: .5, Concurrent Enrollment (FRCC):

Industry Credentials & Certifications

- Semester 1 & 2: COMP TIA ITF+, COMP TIA A+ (Core 1), Networking Basics FRCC
- Semester 3 & 4: COMP TIA A+ (Core 2), COMP TIA Networking+, COMP TIA Security+, Cybersecurity Fundamentals FRCC
- All pathways offer industry certification(s) that meet the Graduation Guidelines for College & Career-Readiness for English & Math. See website for details.

Student Outcomes

- Understand the newest software applications through certification and coursework exploration
- Understands the basics of integration, applications, support essentials, and working as a technician (hardware technology)
- Learn about the fundamentals of communication (security) such as remote access, email, the web, directory and/or file transfer, and wireless data
- Work/Learn within the Comp TIA Security & Linux +
- Explore the differences between PC server based networks vs. cloud computing
- Work/Learn within Comp TIA Cloud + program
- Investigate the benefits of cloud computing, cloud models, and the deployment of cloud models and solutions
- Students will become familiar with understanding cloud computing to include articulating the main concepts, key technologies, strengths, and limitations of cloud computing
- Students will explore information architecture and vulnerabilities, client-server security, and about hacking
- Students will learn about threats to computer networks, will be able to assess online vulnerability, practice and investigate incident response protocols, engage in disaster recovery processes, and understand and demonstrate learning in computer forensics
- Students will learn about various topics of study within a very specific cyber focused curriculum that includes understanding data security, software security, component security, network security, system security, investigation of cyber attacks, and protecting human data
- Students will be able to assess the security risks of a system that has been developed or is being developed and will engage in scenarios that will allow them to identify internet misuse or threats
- Students will study the vulnerabilities of components, security testing, creating secure component design principles, and the component lifecycle and will learn more about intellectual property, piracy, tampering, and Trojans
- Students will explore different algorithms that affect cyber security and safety, applied cryptography, email security, authentication, message integrity, proof of submission and delivery, message confidentiality, and common network attacks

For More Information

Please visit tcc.tsd.org or email cte@tsd.org. Students must apply to be considered for any of the pathways. The application can be found at tcc.tsd.org.

Classes

1st Semester	Credit	2nd 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.

OPPORTUNITIES FOR HIGH SCHOOL STUDENTS

www.frontrange.edu/concurrent-enrollment/lc/



HIGH SCHOOL SELECT

High School Select classes are taught at your local high school for college credit.

CAMPUS SELECT

Take college courses for both high school and college credit at a FRCC campus.

ASCENT

A fifth-year program where approved students take an additional year of college classes on the college campus after their 12th grade year.

TREP

TREP is a fifth- and sixth-year high school program for future educators that where approved students take courses on the FRCC campus.

The Concurrent Enrollment Department at FRCC is proud to offer concurrent enrollment opportunities to Poudre 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 Concurrent Enrollment 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 Concurrent Enrollment can help you get a jump start on your future!

WHAT COURSES CAN I TAKE?

FRCC offers many degree and certificate programs. For a full list of programs, please visit <https://www.frontrange.edu/programs-and-courses/academic-programs>. Many FRCC courses are guaranteed to transfer to all public institutions of higher learning in Colorado. Visit www.frontrange.edu/guaranteedtransfer for more information about the Colorado guaranteed transfer program.

HOW DO I GET STARTED?

Interested?? Talk to your high school counselor today for more information about the application and enrollment process.

HIGH SCHOOL SELECT PROGRAM: FALL 2024 – SPRING 2025

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 both high school and college credit. Tuition is covered by the school district.

The classes offered depend on your school district and high school. FRCC works in partnership with school districts and high schools in determining what classes will be offered at individual high schools.

CAMPUS SELECT PROGRAM: FALL 2024 – SPRING 2025

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), and the FRCC Concurrent Enrollment Department is happy to help provide course information, degree requirements, etc.

Talk to your counselor if you are interested, or visit <https://www.frontrange.edu/concurrent-enrollment/lc/programs/campus-select/> for more information on steps to participate.

ASCENT PROGRAM: FALL 2024 – SPRING 2025

The ASCENT program is a fifth-year program where approved students take an additional year of college classes on the FRCC campus after their 12th grade year. Students are approved for the ASCENT program through their school district and must talk to their high school/district for consideration in to the program. Tuition is covered by the school district and check with your district to see if students are responsible for books and fees.

Talk to your counselor to find out eligibility requirements and steps to participate.

TREP (Teacher Recruitment Education and Preparation Program): FALL 2024 – SPRING 2025

TREP is a fifth- and sixth-year high school program for future educators that lets eligible seniors take education pathway courses on the FRCC campus after their 12th grade year. Students are approved for the TREP program through their school district and must talk to their high school/district for consideration in to the program. Tuition is covered by the school district and check with your district to see if students are responsible for books and fees.

Talk to your counselor to find out eligibility requirements and steps to participate.

ASCENT PROGRAM, FALL 2024-SPRING 2025

ASCENT Program



Definition of ASCENT: ASCENT stands for Accelerating Students through Concurrent Enrollment.

Students who have completed at least 9 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 9 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 9 credit hours of college coursework required for ASCENT eligibility.
- Students will need to supply a copy of their college transcript in the application process for ASCENT
- **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 granted a high school diploma until they complete the ASCENT program
- Eligible students may only participate in the ASCENT program for 1 academic year
- Continue to pursue any additional postsecondary opportunities. Students should be advised to:
 - Research career and/or military opportunities;
 - Apply to any postsecondary institutions/programs they are interested in;
 - Apply for any scholarships they may be eligible for, and
 - Complete the FAFSA

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

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

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

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