

sLongmont High School Course Description Book



Tradition, Pride, Excellence

Longmont High school is a learning community committed to guiding students in becoming productive, empowered, and involved citizens in a changing world.

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Principal Jeff McMurry

This registration guide has been compiled for you and your caregivers to use in planning your academic program at Longmont High School. It is important to formulate and periodically review your educational goals with your caregivers and your counselor. They are the resources that can best assist you in the development of an educational plan that will meet your needs.

1. The courses listed in this guide will be offered only when sufficient numbers of students request them through our course selection process and we have adequate staffing.
2. You will register for classes once a year. Carefully read the description, grade level, and prerequisites to ensure accurate placement in your classes.
3. Provide yourself adequate time to carefully consider and plan your course selections.

As you begin to select your courses, keep the following information in mind:

- Longmont High School has an eight-block schedule with four blocks each day. An alternating day schedule provides the first four blocks one day, followed by the next four blocks the next school day. Each block is 90 minutes in length.
- All courses are either one semester or one year in length. Regardless of the length of the course, credit is awarded at the end of each semester for each course taken.
- Most classes are worth .5 credit hours.

- 9th- and 10th-grade students will be enrolled in eight blocks each semester. Juniors and Seniors must be enrolled in a minimum of six blocks, each semester. Enrollment in at least six blocks is necessary for all students and for athletic and academic eligibility per School Board policy.
- Students must complete the required 24.5 credits to graduate from Longmont High School.
- Juniors and Seniors will **not** be allowed to enroll, or be in, 9th or 10th grade classes at Longmont High School. If a student has failed a 9th or 10th grade class and is in 11th or 12th grade, they must make up that credit by passing summer school, by taking an online class, or by taking eCredit Recovery before the student will be allowed to graduate.

Planning for Post-Secondary Education:

It's never too early to start thinking about what comes next after graduation! Whether you're interested in college, trade school, the military, or another path, the courses you choose now can open doors for your future.

Challenge yourself with classes that prepare you for your goals—Honors, AP, CU Succeed, and Front Range Community College courses are all great options. A strong academic schedule helps you stand out on applications and builds the skills you'll need for success after high school.

If you're planning to attend college, be sure to check the admission requirements for each school—many expect or require world language credits. Remember, these requirements can change, so it's smart to stay up to date and plan ahead!

Talk to your caregivers, guidance counselors, teachers, family, and friends. The college choice might ultimately be yours, but it is good to discuss options and opinions with the people you trust.

Plan for standardized tests, such as the SAT. They are required for entrance to most colleges and offered at LHS each year.

Consider the following:

- Plan ahead - not just for one year, but for four years and beyond. For information on how to make your four-year education plan, go to Naviance or talk to your counselor.
- Know the graduation requirements (24.5!). Are you meeting these in your planning?
- If you are an athlete, know the eligibility rules adopted by the Colorado High School Activities Association and NCAA.
- Before selecting a course, read the course description to be sure it fits your needs and that you have completed the necessary PREREQUISITE course work

Student Obligations/Fines/Fees

All books and materials must be returned, and any fines or fees must be paid, prior to the end of each school year. Graduating seniors must have all obligations cleared to participate in the graduation ceremony.

Students requiring financial assistance, or those eligible for free or reduced lunch under federal guidelines, may request a waiver or scholarship through school administration. Requests must be submitted each year fees are incurred.

Completing these responsibilities on time ensures a smooth conclusion to the school year and allows all students to participate fully in graduation activities.

GENERAL CLASS INFORMATION REQUIREMENTS AND PROCEDURES

Letter Grades: All courses receiving a letter grade will be used in computing a student's grade point average (GPA). Courses awarding Pass/Fail are the only exception and are not calculated in the GPA.

Grade Point Average: The grading scale includes A, B, C, D, and F letter grades. The following point average will be used to compute grade point averages: A = 4 points; B = 3 points; C = 2 points; D = 1 point; F = 0 points.

Weighted Grades: Some Honors courses and all AP classes have weighted grading. The Honors weighted scale is: A = 4.5; B = 3.5; C = 2.5; D = 1.5; F = 0. The AP weighted scale is A = 5.0; B = 4.0; C = 3.0; D = 2.0; F = 0.

Cumulative Grade Point Average: The average obtained by dividing the total number of grade points earned in high school by the total number of credits attempted.

Current Grade Point Average: The average obtained by dividing the total of the grade points earned during the current grading period by the total number of credits attempted during the current grading period.

Credit: Recognition that a student has fulfilled a requirement leading to high school graduation. Longmont High School students must earn a minimum of 24.5 credits in order to graduate.

1.0 Credit: A credit equals two semesters (36 weeks) of successfully completed coursework.

0.5 Credit: One-half credit equals one semester (18 weeks) of successfully completed coursework.

Outside Credit: A cumulative total, not more than two credit hours, for satisfactory completion of approved, pass/fail grade for online credit or traditional grade for eCredit recovery class.

Grades of Incomplete ("I"): If a student has a justifiable reason for not being able to complete the requirements for credit in a particular course, and has received approval from the class instructor, they may receive an "Incomplete" grade for that course, for that semester, and receive no credit. The requirements to change that "Incomplete" to a letter grade and receive credit must be made up no later than ten (10) school days after the completion of the semester. If the "Incomplete" is not made up, it will be changed to a grade of "F".

ACADEMIC RECOGNITIONS

LHS Valedictorian/Salutatorian Designation:

- The Valedictorian is the student with the highest academic rank in the graduating class. The Salutatorian is the second highest rank in the graduation class (*).
- 12 or more credits must be completed at the current school.
- No more than two credits (excluding Advisory) of Passing "P" may be used for GPA calculation.
 - Of those two credits, no more than 0.5 may be from a core subject. (English, Math, Social Studies, Science)
- Students must maintain full-time academic status their senior year as defined by Board Policy.

Note: The building principal reserves the right to award more than one Valedictorian or Salutatorian for each program depending on extraordinary circumstances. For graduation speaking purposes only the Val/Sal will be determined at the **end of first semester of the senior year**.

TOP 5%: Longmont High School will also recognize the top 5% of students' academic performance. The following criteria are used to determine the top 5% of the graduating class at Longmont High School:

- Students must have taken a minimum of four academic classes each semester of high school (eight semesters, including second semester of the senior year). Academic classes include:
 - English
 - Math
 - Social Studies
 - Science
 - World Languages
- Students must have three years or more of Math and Science

To determine academic honors top 5%, transcripts are evaluated at the end of the second semester of the senior year, the last official ranking for seniors. Procedures are in place to determine the top 5% of the traditional senior class.

ADVANCED PLACEMENT (AP) RECOGNITION

Longmont High School's AP Diploma Program is designed to provide a rigorous academic program. Recognitions are determined by College Board.

AP Scholar with Distinction: Students with at least 3.5 on all AP Exams taken, and grades of 3 or higher on at least five full-year AP exams.

AP Scholar with Honor: Students with at least 3.25 on all AP Exams taken, and grades of 3 or higher on four or more of these exams.

AP Scholar: Students with grades of 3 or higher on at least three full-year AP exams or the equivalent.

AP Capstone: Students who earn scores of 3 or higher in AP Seminar and AP Research and on 4 additional AP Exams of their choosing.

ACADEMIC LETTERING

St. Vrain Valley School District high schools award letters for academic achievement. Students may qualify for an academic letter each semester. To initially qualify for an academic letter:

- A student must earn a 3.75 grade point average for the semester.
- A student must be enrolled as a full-time student and be enrolled in a minimum of three core area classes (English, Mathematics, Social Studies, Science or World Language.)
- Courses taken on a pass/fail basis (student aiding, elementary assistants, and work study) will NOT be considered in the computation of academic lettering.
- All Advanced Placement and concurrent classes will be considered core area courses.
- Credit toward an academic letter must be earned in the qualifying semester. Credit and GPA may NOT be carried from one semester to the next.

Further qualifying semesters of academic achievement per the above guidelines will result in the award of an academic bar to be worn on the letter.

ALTERNATIVE CREDIT OPTIONS

Concurrent Enrollment Program: The program provides an opportunity for juniors or seniors to earn both high school and college credit for a college course. The school district will reimburse tuition for up to two courses per semester (not summer school). This option is available only to 11th and 12th grade students who have completed a minimum of 11.5 credits toward graduation and are under 20 years of age. The courses taken in this manner count toward the eligibility requirements as set forth by the Colorado High School Activities Association. The courses must be pre-approved and successfully completed with a C or better. Please note that this program is designed to enrich a student's educational experience by providing curricular options beyond what is offered at the high school. Courses can be taken on FRCC campus or several options available at LHS during the school day. Concurrent Enrollment is not intended to duplicate opportunities that are available through coursework offered at LHS or CETC. Students interested in this opportunity should see their counselor for more information.

Independent Study Options: Independent Study may be coordinated through the Counseling Office when extenuating circumstances do not allow the student to take the class as scheduled. Students must obtain written approval from the principal, counselor, and instructor. Independent Study courses will NOT take the place of core graduation requirements, AP courses or World Languages courses. In order to earn credit in a course taken through the independent study option, a student must be under the supervision of a teacher. The student must have successfully completed a minimum of 60 hours (as verified by the instructor) of class work for .5 credits, or have completed a minimum of 120 hours for 1.0 credit. An Independent Study Application, available through the Counseling Office, must be completed, with all required signatures, prior to the semester in which the student plans to take a course via independent study. Independent study

students will be graded on a pass/fail basis.

Aiding Positions: Student aides will be graded on a pass/fail basis. Students who are Teacher or Office Aides will receive .25 credits per semester. Students who are Library Media Assistants, Special Education Assistants, Bilingual Assistants, and/or Elementary/Middle School Assistants will earn .5 credits per semester. ***Only one aiding class per semester is allowed.***

Peer Tutor MS1555 – Success Lab (11th and 12th grade students - by the recommendation of a previous teacher only): This course is a hands-on experiential learning program whereby students will have the opportunity to support and build working relationships with students that need extra academic support in the classroom. This course is designed to offer students an opportunity to (1) Gain a wide variety of knowledge and skills related to teaching & learning (2) Develop effective communication and interpersonal skills (3) Gain work experience with organizational skills, learning and study skills, and creative problem solving skills. Students will gain a greater appreciation and empathy for their peers, as well as a greater sense of personal satisfaction through helping others.

Peer tutors are recommended by a previous teacher to support and tutor in core classes. Peer Tutor is a class placed in the student's schedule and is graded Pass/No Pass for attendance and participation. Peer Tutors will receive 0.5 credits per semester. The Peer Tutor role promotes leadership and mentoring in one-on-one situations and small group formats.

Physical Education .5 Credit Waiver: Please see your counselor for an application and criteria for a PE Waiver. The application is required and must be completed no later than the first semester of senior year

SCHEDULE CHANGES

Dropping and Adding Courses

- The last day to add a class for first semester is 5 school days after the beginning of the school year. The last day to add an elective class for second semester is 5 school days after the semester begins.
- Add/Dropped Classes: To add or drop a class, students must receive approval by the counselor before the change is effective and before students may discontinue attendance or begin a new class.
- Students are allowed to drop a standard or honors-level class during the first 10 school days of the semester with no grade reported on the transcript. For a full-year core or elective class, this policy only applies in the first semester.
- Students are allowed to drop an AP-level course within the first 10 school days of the semester (not including weekends, holidays, or professional days) with no grade reported on the transcript.
- Students who drop a course outside of the Add/Drop window may be issued a grade of WF (withdraw/fail), which will be recorded on the student's permanent transcript.

ATHLETIC ELIGIBILITY

A student's eligibility is based both on their current and previous 18 - week term of enrollment. To maintain eligibility, a student must be enrolled in a minimum of 2.5 credits each semester. In addition, a student must have passed a minimum of 2.5 credits within the prior 18 - week semester and must be passing a minimum of 2.5 credits currently. Summer school or its equivalent may be used to regain eligibility in athletics, cheerleading, or forensics due to failed classes during the school year.

A student athlete should attend summer school if they did not pass 2.5 credits within the semester. The class taken in summer school to regain eligibility must be the same class that was failed. This class must apply towards graduation requirements. Students are able to earn high school and/or college credit through concurrent enrollment. The courses taken in this matter may count toward eligibility; however, a student wishing to use such credit for eligibility is required to verify their credit with the Athletic Director.

Weekly Eligibility: During an athletic season weekly eligibility checks will be made. Any student failing two or more classes will be deemed ineligible for competition the following week. If an athlete's grades improve they can return to competition for the next week.

Division I and II Initial Eligibility Requirements: Information can be found at www.eligibilitycenter.org

Honors Courses

Honors courses lay a strong foundation for students planning to take Advance Placement (AP) courses. Honors classes prepare students for the rigor of Advanced Placement courses by introducing the required writing and thinking skills that are so valuable for college-bound students. Honors courses not only help prepare students for success in Advanced Placement courses, but also better equip them to face the challenges of post-secondary education after graduation from Longmont High School.

Incoming freshmen should make plans for all four years at Longmont High School. These plans may change as students find their own strengths, but mapping out a plan now will enable them to experience a richer and more productive time at Longmont High School.

AP & CONCURRENT ENROLLMENT AT LONGMONT HIGH

The best route to post-secondary success through Longmont High School is Advanced Placement (AP) and CU Succeed courses. Students can earn placement at colleges and universities and have great success. Most U.S. colleges and universities have an AP policy granting incoming students credit, placement, or both, for qualifying AP Examination scores. With CU Succeed, students can also earn CU Denver credit.

[CU SUCCEED INFORMATION](#)

[AP COURSES AND INFORMATION](#)

COUNSELING DEPARTMENT

Our school counselors are here to help you succeed—both in school and beyond. They can support you with academic planning, career and college exploration, personal growth, and any challenges you may face.

Counselors can help with things like:

Making decisions and solving problems

Understanding exam results and planning your schedule

Preparing for college, careers, or other post-high school opportunities

Getting support during difficult times or crises

GRADUATION REQUIREMENTS

St Vrain Schools Graduation Requirements	
TOTAL CREDITS	24.5 CREDITS
Language Arts	4.0 credits
Math	3.0 credits
Science	3.0 credits
Social Studies	3.0 credits
Physical Education	2.0 credits
Financial Literacy	. 5 credit
Practical Arts	. 5 credit
Fine Arts	. 5 credit
Health	. 5 credit
Electives: Practical Arts Fine Arts Health Physical Education	7.5 total credits (. 5 each)
Individual Career and Academic Plan (ICAP): Graduates will address indicators for self-advocacy, career awareness, post-secondary plans, etc.	

Colorado's Colleges Admissions

<u>Colorado Commission on Higher Education (CCHE)</u> <u>Admission Requirements and Recommendations</u>	
4.0 Credits	English Language Arts
4.0 Credits	Math (Algebra or higher level)
3.0 Credits	Natural Science (2.0 credits must be lab based)
3.0 Credits	Social Studies (1.0 credit either US or World History)
2.0 Credits	World language course – must be in the same language
2.0 Credits 2.0	Academic Electives: Business, Computer Science, Art, Music, or Drama. Also acceptable are honors, Advanced Placement (AP).

Students planning to continue their formal education after graduation should keep in mind the following factors upon which college admission is generally based. College information, financial aid, and scholarship information can be found in the Counseling Office or on Naviance, through www.lhs.svvsd.org.

Grade Point Average and Class Rank. Your high school record of achievement still serves as the best predictor of academic success in college. Grades are important. Your rank in class is determined by your cumulative grade point average. It is computed at the end of each semester.

Quality of Course Selection. Colleges closely examine the quality of a student's record. For most colleges and universities, a **minimum** preparation should include: 4 years of English, 4 years of Mathematics, 3 years of Science (laboratory), 3 years of Social Studies, and 2 to 3 years of World Languages. **However, students should consult the website of the college or university they are interested in attending to determine the exact requirements.** Students must complete 4 years of English, 4 years of Mathematics, 3 years of Natural Science, 3 years of Social Studies and 2 years of Academic Electives (may be chosen from any area above, world languages with 2 to 3 years in the same language, computer science, art, music, journalism, or drama) to meet the Colorado Commission of Higher Education admission standards for any four- year college or university in the State of Colorado.

College Admission Tests. Many colleges also request tests such as the American College Test (ACT) or the Scholastic Aptitude Test (SAT). These should be taken in a student's junior or senior year.

College Essay. Most colleges are requesting a college essay as part of the application process, and most colleges will provide a topic to address in your essay with a limit on the number of words you can use, so plan accordingly.

Letters of Recommendation. Some colleges and scholarship donors may request personal letter(s) of

recommendation from counselors, teachers, or individuals from the community. Be sure to give the person you are asking to do such a letter some information about you and your activities and allow at least two weeks for the letter to be completed. Student profile sheets are available on Naviance. Once completed, make copies and give one to each person who is writing a letter of recommendation.

Co-curricular Activities. Participation in activities outside of the classroom is important. This could include volunteer work, consistent employment, student council, clubs, athletics, band/orchestra or choir activities, and national organization memberships. The quality of a student's involvement is more critical than the quantity.

SAMPLE COLLEGE ADMISSIONS CRITERIA

Admission criteria to colleges and universities vary. On a continuum of expectations and requirements, the following examples provide general indicators.

Most Selective Colleges/Universities

Examples: U. S. Air Force Academy, Stanford University, University of Pennsylvania, Northwestern University, Duke University

Minimum of 18 core units: English 4, Math 4, Social Studies 3-4, Science 3-4, Foreign Language 3-4, Advanced Placement Courses Required

G.P.A. 3.8+ (academic courses only)

SAT 1300+

ACT 28+

Very Selective Colleges/Universities Examples: Colorado College, Colorado School of Mines, University of Puget Sound, Middlebury College, Illinois Wesleyan University, Tulane University

Minimum of 18 core units: English 4, Math4, Social Studies 3-4, Science 3-4, Foreign Language 3-4,

Advanced Placement Courses Required

G.P. A. 3.6+ (academic
courses only) SAT

1200+

ACT 27+

Selective Colleges/Universities

Examples: University of Colorado-Boulder, University of Denver, Colorado State University, Regis University, Arizona State University, Cornell College, American University, Vanderbilt University

Minimum of 16 core units: English 4. Math 3-4, Social Studies 2-3, Science 2-3, Foreign Language 2-3,

Advanced Placement Courses Highly Recommended

G.P. A. 3.4+

SAT 1100+

ACT 24+

Competitive I College

Examples: University of Northern Colorado, Colorado Christian University, University of Colorado at Colorado Springs, University of Colorado at Denver, Texas Christian University, Kent State University, Lesley University, Virginia Commonwealth University

Minimum of 15+ core units: English 4, Math 3-4, Social Studies 2-3, Science 2-3, Foreign Language 2-3,

Advanced Placement Courses Recommended

G.P.A. 3.0+

SAT 950+
ACT 20+

Competitive II College

Example: Fort Lewis College, Adams State College, Mesa State College, Metro State College of Denver, University of Colorado, Western State College, Montana State University, Baker University, Plymouth State College, Grambling State University

Minimum of 14 core units: English 4, Math 3-4, Social Studies 2-3, Science 2-3, Foreign Language 2

G.P.A. 2.5+
SAT 850+
ACT 18+

Concurrent Enrollment Options Offered AT Longmont High

The Concurrent Enrollment program allows students to take college courses through FRCC while still in high school. This program is designed to enhance a student's high school education and not replace graduation requirements. Students may enroll in college courses each semester. Books, fees, and transportation costs are the responsibility of the student. Meet with your school counselor for more information.

Potential Front Range Community College courses (based on interest and instructor availability)

Sociology I (SOC 1001)

This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT Pathways Course GT-SS3)

3.000 Credit hours

Sociology II (SOC 1002)

Examines the basic concepts, theories, and principles of sociology, including topics of family, religion, education, politics, the economy, health, demography, the environment and social movements through a local and global lens. Analyzes and interprets socio-historical as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. This is a statewide Guaranteed Transfer course in the GT-SS3 category.

3.000 Credit hours

Public Speaking (COM 1115)

Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery. (NOW GT course, details TBA)

3.000 Credit hours

Cultural Anthropology (ANT 1001)

Examines the study of human cultural patterns, including communication, economic systems, social and political organizations, religion, healing systems, and cultural change. This is a statewide Guaranteed Transfer course in the GT-SS3 category.

3.000 Credit hours

History of Latin America (HIS 2200)

Focuses on the major political, economic, social, and cultural influences that have shaped Latin America from pre-European conquest to the present. Emphasizes the early history of Latin America but connects it to the present. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category.

3.000 Credit hours

SPECIAL PROGRAMS AT LONGMONT HIGH



The Medical and BioScience Academy (MBSA) at Longmont High School is designed for students interested in careers or post-secondary education in the health sciences.

Rigorous College-Prep Curriculum:

MBSA prepares students for competitive admissions and advanced programs in medicine, research, and allied health fields. Students take at least one Honors- or AP-level science course each year and are strongly encouraged to take Honors- or AP-level math courses all four years to build a strong foundation for college and STEM majors.

Hands-On Learning:

Students explore courses such as:

- Introduction to Health Care Foundations
- Animal Behavior
- Nutrition & Wellness
- Introduction to Biotechnology
- Forensic Science
- Anatomy & Physiology

Students must maintain a minimum 3.0 GPA each year to remain in the program.

MBSA Senior Internship:

Seniors are invited to apply for a one-semester capstone project through community connections in health sciences or biotechnology. During this internship, students work alongside professionals, apply technology in medical contexts, develop practical skills, and produce a semester poster project summarizing their experience.

College Credit

MBSA students can earn college credit through the University of Colorado Denver's CU Succeed Program by taking designated AP/CU Succeed courses. Students receive both high school credit through the AP program and college credit from CU Denver, which is posted on a University of Colorado transcript and can be transferred to colleges and universities worldwide.

Admissions:

Students must apply and be accepted into the MBSA program. Applications are open each fall for incoming 9th and 10th graders. See the [MBSA website](#) for more information.

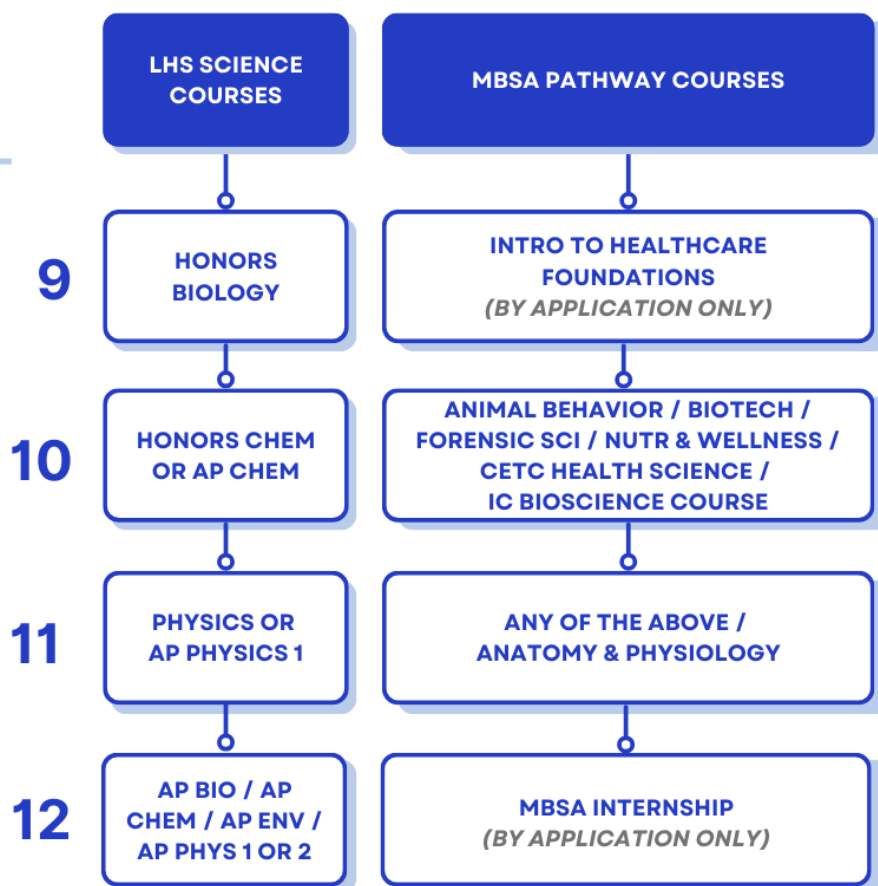
MBSA Students Will:

- Take rigorous, college-prep science and math courses
- Work with health science professionals
- Gain real-world skills through internships
- Use technology to solve problems
- Prepare for competitive college programs
- Explore health-related careers, such as:
 - Physician
 - Veterinarian
 - Dentist
 - Bioengineer
 - Nurse
 - Nutritionist
 - Physical Therapist
 - Pharmacist
 - Genetic Counselor

MBSA PATHWAY

EACH YEAR TAKE:

- HONORS/AP SCIENCE COURSE
- MBSA PATHWAY COURSE (OR ANY CETC HEALTH SCIENCE OR IC BIOSCIENCE CLASS)



MBSA Coursework

MS2210 INTRODUCTION TO HEALTH CARE FOUNDATIONS (1 semester/. 5 credit)

Grade 9

PREREQUISITE: Accepted into the Medical & BioScience Academy

FEE: None

This course is an introductory class and establishes the foundation for students in the Medical and BioScience Academy (MBSA) at Longmont High School. Introduction to Health Care Foundations is designed to familiarize students with the various careers in the medical professions. Students will learn skills necessary for their healthcare career pathway including: working with others, communication skills, legal and ethical responsibilities, cultural considerations in the healthcare industry, problem solving, decision making, accepting personal responsibility and self-management.

SC2130 NUTRITION AND WELLNESS (1 semester/. 5 credit)

Grades 11, 12

PREREQUISITE: Biology and Chemistry (10th grade MBSA students may take this course concurrently with Honors Chemistry)

FEE: \$5.00

The purpose of the course is to develop health-minded students with an understanding of wellness (mental, emotional, and physical) as a lifestyle, nutrition, marketing schemes, food and mood, essential nutrients and vitamins/minerals, decoding food labels and ingredients and overall best practices for feeling healthy and happy. Emphasis is placed on implementing healthy nutritional choices, developing a fitness/wellness plan, integrating science principles as related to nutrition, and practicing wise consumer decisions.

SC2150A - SC2150B ANATOMY & PHYSIOLOGY (1 year/1 credit)

Grades 11, 12

PREREQUISITE: Biology and Chemistry

FEE: \$10.00

This academically rigorous honors-level elective laboratory science course will build on concepts learned in biology and chemistry. It will focus specifically on human anatomy and physiology. Emphasis will also be placed on healthcare careers. Through problem-based learning, students will learn how the structures (anatomy) of the human body fit their function (physiology) to maintain homeostasis of the organism and continue the species. The different human body systems are taught along with types of tissues and anatomical terminology.

SC2125 ANIMAL BEHAVIOR (1 semester/. 5 credit)

Grades 11, 12

PREREQUISITE: Biology or Honors Biology, can be taken concurrently with Physics

FEE: \$5.00

This is an enrichment class for students who have completed the Biology prerequisite and wish to explore animal behavior. This class explores topics related to behavior including courtship, learning, nature vs. nurture, defenses, finding food, mating, parenting, social behavior, emotional intelligence and human impact on species. Students will make observations of invertebrate and vertebrate behavior in this laboratory science class through readings, labs, discussions, project-based learning, case studies, scientific journals and videos. Animals of focus include mammals (various primates) and birds.

SC2140 FORENSIC SCIENCE (1 semester/. 5 credit)

Grades 11, 12

PREREQUISITE: Biology and Chemistry (10th grade MBSA students may take this course concurrently with Honors Chemistry)

FEE: \$5.00

This laboratory science course is designed for students who are interested in forensic science. In this course students gain experience in the major investigative techniques currently used by forensic scientists and crime scene investigators, and develop an understanding of the scientific concepts which serve as the basis for these techniques. Students will use scientific processes and critical thinking skills to analyze physical evidence through hands-on labs, activities and case study readings. Some of the topics to be covered include: crime scene documentation, forensic serology, bloodstain pattern analysis, fingerprinting, document examination techniques, DNA analysis, and forensic anthropology.

SC1155 INTRODUCTION TO BIOTECHNOLOGY (1 semester/. 5 credit)

Grades 11, 12

PREREQUISITE: Biology/Honors Biology and Chemistry/Honors Chemistry

FEE: \$5.00

Introduction to biotechnology is a course designed to give students a comprehensive introduction to the scientific concepts and laboratory research techniques currently used in the field of biotechnology. Students attain knowledge about the field of biotechnology and deeper understanding of the biological concepts used. In addition, students develop the laboratory, critical thinking, and communication skills currently used in the biotechnology industry. Furthermore, students will explore and evaluate career opportunities in the field of biotechnology through readings, laboratory experiments, class discussions, research projects, and guest speakers.

SC2210 MEDICAL & BIOSCIENCE ACADEMY INTERNSHIP (1 semester/. 5 credit)

Grade 12

PREREQUISITE: Application & Interview Process, MBSA Students Only

FEE: None

The Medical and BioScience Academy (MBSA) Internship is a comprehensive, capstone experience designed for qualified MBSA seniors at Longmont High School. Students will complete 40 hours of supervised field experience at a local medical or bioscience business or organization, gaining valuable insights into potential careers in these fields. In addition, students will dedicate 20 hours conducting research, developing a formal poster, and presenting their findings at the annual MBSA senior poster session in late April. This internship provides a unique opportunity for students to apply their knowledge, refine their skills, and gain practical exposure to the medical and bioscience industries, serving as the final step in their four-year journey through the Medical and BioScience Academy.

MS2199 MBSA Aspire (Guided Study Hall) (1 semester/. 5 credit)

Grades 9, 10, 11, 12

PREREQUISITE: Teacher Recommendation; MBSA Students Only

FEE: None

This guided study hall course is designed specifically for MBSA students to receive extra academic support to master content in other courses. Students will develop strategies for goal setting, establishing good study habits, organization, and improving communication skills. They will also be given time in class to obtain help and complete work. Any MBSA student can enroll in this optional study hall, but this course will especially benefit students struggling to maintain the minimum GPA requirements for the MBSA program.



High School of Business Students:

Experience rigorous coursework

Interact with business professionals

Develop real-life skills through project-based learning and internships

Prepare for a college-level business program

Have the opportunity to receive scholarships

May earn college credit through various post-secondary colleges

Join FBLA (Future Business Leaders of America)

HIGH SCHOOL OF BUSINESS REQUIREMENTS

	1st Semester	2nd Semester
Grade 9	Leadership	Wealth Management (Fulfills Personal Financial Literacy graduation requirement)
Grade 10	Principles of Business	Business Economics
Grade 11	Principles of Marketing	Principles of Finance International Business

Grade 12	Principles of Management	Business Strategies
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**All classes can count as electives; classes in bold are required for the High School of Business designation.*

HIGH SCHOOL OF BUSINESS COURSEWORK

All classes are one semester long and .5 credit unless otherwise noted.

CTE9105 LEADERSHIP

Grade 09

PREREQUISITE: None

FEE: \$15.00

Leadership, a project-based leadership course, develops student understanding and skills in such areas as communication skills, emotional intelligence, operations, and professional development. Students acquire an understanding and appreciation of the need for leadership skills. To encourage immediate implementation of leadership skills, Leadership utilizes an on-going service-learning project for course delivery and reinforcement. The course content is sequenced for students to identify, plan, implement, and evaluate a service-learning project based on the needs of their community/school. Throughout the course, students are presented problem-solving situations for which they must apply academic and critical-thinking skills. Formal reflection is an on-going component of the course.

CTE9107 WEALTH MANAGEMENT

Grade 09

PREREQUISITE: None *Fulfills Personal Financial Literacy graduation requirement

FEE: None

This project-based financial literacy and investment course develops student understanding and skills in such areas as personal finance, types of investment, the stock market, and stock valuation. Students acquire an understanding and appreciation of the need for personal financial management and investing. To encourage immediate implementation of financial literacy and investment skills, Wealth Management utilizes an on-going investment project for course delivery and reinforcement. The course content is sequenced for students to develop a diversified, balanced investment portfolio based both on their interest in products and companies and on fundamental analysis. Throughout the course, students are presented problem-solving situations for which they must apply academic and critical-thinking skills.

CTE9110 PRINCIPLES OF BUSINESS

Grade 10

PREREQUISITE: Enrollment in High School of Business; Teacher approval

FEE: \$15.00

Principles of Business, a project-based business course, develops student understanding and skills in such areas as business law, economics, financial analysis, human resources management, information

management, marketing, operations, and strategic management. Through the use of three projects, students acquire an understanding and appreciation of the business world. They develop a business analysis report, conduct an environmental scan of the local business community, and investigate business activities. Current technology will be used to acquire information and to complete the projects. Throughout the course, students are presented problem-solving situations for which they must apply academic and critical-thinking skills. Formal reflection is an on-going component of the course.

CTE9112 BUSINESS ECONOMICS

Grade 10

PREREQUISITE: Principles of Business

FEE: \$15.00

In Business Economics, a project-based business course, students expand their understanding that businesses are influenced by external factors that are often beyond their control. Consumer spending, government policies, economic conditions, legal issues, and global competition are addressed through practical, current applications to everyday societal and business life. Decision matrices are introduced, and the importance and costs of quality are stressed. Students develop their knowledge and skills in such areas as economics, entrepreneurship, operations, and professional development. Throughout the course, students will be presented with current economic problems for which they are asked to determine solutions, often through the application of decision matrices.

CTE9113 PRINCIPLES OF MARKETING

Grades 11-12

PREREQUISITES: Principles of Business and Business Economics

FEE: \$15.00

Principles of Marketing is a project-based business course that develops student understanding and skills in the functional areas of marketing: channel management, marketing-information management, market planning, pricing, product/service management, promotion, and selling. Students acquire an understanding and appreciation of each of the marketing functions and their ethical and legal issues. Decision matrices are employed to aid in market planning.

CTE9114 PRINCIPLES OF FINANCE

Grades 11, 12

PREREQUISITES: Principles of Business, Business Economics, and Principles of Marketing

FEE: \$15.00

Principles of Finance furthers student understanding of two specific business activities—accounting and finance—that were introduced in an earlier High School of Business™ course, Principles of Business. Through multiple projects, students make connections between accounting, with an emphasis on cash flow, and finance, with an emphasis on decision-making. Students acquire an understanding of financial statements, calculate financial ratios, and make business decisions based on their interpretation of those financial statements and ratios. In addition, students determine business- financing options, as well as develop an appreciation for types of financial service providers and financial markets. Decision matrices are employed to aid in financial planning.

CTE9119 WORLD of BUSINESS

Grades 11,12

PREREQUISITES: Business Economics, Principles of Business, HSB Students, Instructor Approval

FEE: \$15.00

The World of Business Course is a comprehensive overview of the nature of business and the formation of the essential practices and structures that influence today's global economy. Students will explore the historical, economic, and ethical context in which modern businesses operate, as well as examine various perspectives and considerations in the evolution of the business world. The course encourages students to challenge their preconceptions about business and investigate the moral implications of fundamental economic principles. Students will apply their understanding to real-world situations through gamification, discussions surrounding current events, and project-based learning.

CTE 9115 PRINCIPLES OF MANAGEMENT

Grade 12

PREREQUISITE: Principles of Business. Business Economics, Principles of Marketing, and Principles of Finance

FEE: \$15.00

Principles of Management is a project-based business course that expands student understanding of management. Students acquire an appreciation for aspects of management, such as project management, human resources management, knowledge management, quality management, and risk management. In addition, ethical and legal considerations affecting business activities are stressed, and students develop managerial and supervisory skills through interaction with lower grade-level High School of Business™ students. Decision matrices are employed to aid in management planning.

CTE 9116 BUSINESS STRATEGIES

Grades 11, 12

PREREQUISITE: Principles of Business, Business Economics, Principles of Marketing, Principles of Finance, and Principles of Management

FEE: \$15.00

Business Strategies serves as the capstone course for the High School of Business™ program. Students employ their decision matrices to finalize marketing, financial, and management plans developed previously, incorporating them into a business plan for a non-profit organization. The non-profit venture is actualized during the course, requiring students to engage in risk assessment, strategic planning, and performance assessment.

CTE 9050 BUSINESS INTERNSHIP

Grade 12

PREREQUISITE: Principles of Business, Business Economics, Principles of Marketing, and Principles of Finance

FEE: None

The High School of Business™ Internship requirement provides students the opportunity to see first-hand how business executives function, interact, and put into use the concepts taught in the High School of Business™ program and academic courses. Students are required to observe a high-level business

executive (vice-president, sr.-level marketing manager, certified financial planner, sales manager. etc.) for a minimum of 40 hours with an additional 20 hours of documented work on their final project. The observation should take place during the student's senior year or the summer preceding. Students keep a daily journal describing their experiences. Each student summarizes their experiences in a short oral presentation to the class. The internship gives students the opportunity to gain valuable work experience related to their career goal. This environment helps the student apply skills acquired in the classroom in the workplace.



Pathways in Technology Early College High School (P-TECH) brings together the best elements of high school, college, and the professional world.

Offered at Longmont High School, TrojanTECH is a model that allows students to earn a high school diploma, as well as a no-cost associate degree focusing on Business from Front Range Community College. This program includes significant mentorship and internship opportunities with our industry partners, giving students a head start on their careers after completing the program. Students enroll in 9th grade and complete the program in 4-6 years.

Preparing Students for 21st Century Careers

- Longmont High's P-TECH will focus on a Business pathway, providing a foundation for careers in related fields.
- Students in P-TECH will graduate with a high school diploma and an associate degree from Front Range Community College.
- P-TECH students will also receive mentorship and internship opportunities with the City of Longmont, Longmont Chamber of Commerce, Longmont Downtown Development Authority, Longmont Economic Development Partnership, and the Latino Chamber of Commerce of Boulder County.

Students interested in the TrojanTECH must apply for and be accepted into the program. Applications are accepted for enrollment each fall from incoming 9th grade students.

LHS–FRCC Business Pathway (Grades 9–13)			
Grade & Semester	Course Code & Title	Credits	Course Description
Grade 9 – Spring	CIS 1018 – Introduction to PC Applications	3	Learn the basics of computers, software, and digital tools. Build skills in word processing, spreadsheets, and presentations for school and work.
Grade 10 – Fall	BUS 1015 – Introduction to Business	3	Explore how businesses operate. Learn about marketing, management, entrepreneurship, and finance in a global economy.
Grade 10 – Spring	COM 1150 – Public Speaking	3	Gain confidence speaking in front of groups. Learn how to plan, organize, and deliver effective speeches and presentations.
Grade 11 – Fall	BUS 2017 – Business Communications	3	Strengthen your professional writing and communication skills in business settings. Focus on memos, reports, and presentations.
Grade 11 – Fall	ACC 1011 – Accounting I	3	Learn the fundamentals of accounting, including financial statements, journal entries, and the accounting cycle.
Grade 11 – Spring	MAT 1340 – College Algebra	4	Study algebraic concepts and problem-solving strategies useful in business, science, and everyday life.
Grade 11 – Spring	ACC 1012 – Accounting II	3	Continue from Accounting I. Explore more complex financial reporting, payroll, and managerial accounting principles.
Grade 12 – Fall	ENG 1021 – English Composition I	3	Develop strong academic and professional writing skills through essays, analysis, and research projects.
Grade 12 – Fall	PHI 2005 – Business Ethics	3	Study moral and ethical decision-making in the workplace through real-world business scenarios.
Grade 12 – Spring	ENG 1022 – English Composition II	3	Build advanced writing, research, and argumentation skills to prepare for college-level work.
Grade 12 – Spring	BUS 2016 – Legal Environment of Business	3	Learn about the laws that affect business, including contracts, employment, and consumer protection.
Grade 13 – Fall	ECO 2002 – Principles of Microeconomics	3	Study how individuals and businesses make economic decisions focusing on supply, demand, and market behavior.
Grade 13 – Fall	BUS 2026 – Business Statistics	3	Learn how to collect, analyze, and interpret data to make informed business decisions using statistical methods.
Grade 13 – Fall	GT-SC1 Science Course (Any)	4	Choose a college-level lab science course (like Biology or Environmental Science) to meet general education requirements.

	Approved Science)		
Grade 13 – Spring	ECO 2001 – Principles of Macroeconomics	3	Understand the broader economy, including topics like inflation, unemployment, and national economic policy.
Grade 13 – Spring	GT-SC1 or GT-SC2 Science Course (Any Approved Science)	4	Continue general education in the sciences through a second approved science course.
Grade 13 – Spring	HIS 1210 – U.S. History to Reconstruction	3	Explore U.S. history from the founding through Reconstruction, an emphasis on social, political, and economic development.

Pathway Outcome

By the end of Grade 12 or 13, students complete both high school graduation requirements and earn significant college credits toward an **Associate of Arts (A.A.) in Business** – setting a strong foundation for transfer to a four-year university or immediate entry into the business world.

Core Courses (English, Math, Science, Social Studies)

Language Arts Course Sequence & Offerings

Grade	Course Options
9	English 9 or Honors English 9
10	English 10 or Honors English 10 or AP Seminar
11	CP English 11 or AP English Language and Composition or AP Seminar

	or AP Research
12	CP English 12 or AP English Language and Composition or AP English Literature and Composition or AP Research or Front Range College Composition (taught at LHS)

All classes are one-year long and .5 credit per semester unless otherwise noted.

LA1110A - LA1110B

ENGLISH 9

Grade 9

PREREQUISITE: None

FEE: None

This entry-level course is designed to provide a smooth transition into the high school English program. Building upon previous core language arts skills, students will practice effective grade-level reading, writing, speaking and listening for a variety of purposes using a variety of skill-building strategies. For success in the course, students are required to consistently display good work habits and should expect regular homework assignments.

LA1111A - LA1111B

HONORS ENGLISH 9 (Honors Weighted Credit)

Grade 9

PREREQUISITE: A grade of B or better in Middle School LA and Middle School Teacher Recommendation

FEE: None

Faster paced and more rigorous than English 9, this class provides a pre-Advanced Placement level study of literature, composition, grammar, vocabulary and research. Using increasingly sophisticated reading strategies, students will respond to texts through higher level critical analyses and compositions. Concentrated instruction focuses on the thorough analysis of fiction, nonfiction, drama, and poetry, ultimately preparing students for advanced study in English literature and language. Consistent completion of daily homework assignments is an essential part of the course, and necessary for student success.

LA1120A - LA1120B

ENGLISH 10

Grade 10

PREREQUISITE: Honors English 9 or English 9

FEE: None

This course is designed to build upon the skills gained in English 9. Students will practice grade level reading and writing competencies with increased understanding of literary and informational texts. Stu-

dents will also sharpen their writing skills in such areas as the eleven-sentence paragraph structure, expanding into extended essay writing. Good work habits and regular homework are essential parts of this course.

LA1121A - LA1121B

HONORS ENGLISH 10 (Honors Weighted Credit)

Grade 10

PREREQUISITE: Honors English 9 or English 9

FEE: None

A comprehensive study of language arts, this rigorous course concentrates instruction on the thorough analysis of fiction, poetry, and non-fiction. Building on strategies introduced in Honors English 9, students will use increasingly sophisticated reading strategies and writing conventions to read literary selections, to write papers, and to compose timed essays. In addition to being taught at a faster pace than regular English 10, this course places a very strong emphasis on literary analysis in order to prepare students for future honors English classes, and, ultimately, for advanced study of English literature and language. A year-long vocabulary program will help students prepare for the PSAT and SAT tests. Students will also read one or two independent novels to which they will respond in depth. Good work habits and regular home-work are essential parts of this course.

LA1131A - LA1131B

COLLEGE PREPARATORY ENGLISH 11

Grade 11

PREREQUISITE: Honors English 10, English 10, or AP Seminar

FEE: None

An advanced and rigorous college preparatory survey of American Literature, this course concentrates on the thorough analysis of American fiction, poetry and nonfiction. Building on strategies introduced in Honors English 10, students will use increasingly sophisticated reading strategies and writing conventions to read and analyze literary selections, to write papers, and to compose timed essays. This advanced course requires students to practice research techniques through various formative assignments and to prepare at least one full-length research paper. This course places a very strong emphasis on literary analysis as direct preparation for Advanced Placement study of English literature and language.

LA1141A - LA1141B

COLLEGE PREPARATORY ENGLISH 12

Grade 12

PREREQUISITE: English 11, CP English 11 or AP Language and Composition

FEE: None

This course is highly recommended for students preparing to continue their education in college. The intent is to prepare students to demonstrate the writing, literacy, and critical thinking skills that will be demanded of them in college. The rigorous course emphasizes the study of world literature within its cultural context, independent readings, literary analysis, research, and language study (grammar). Students will be expected to read the material outside of class, to participate actively in class discussions, to complete daily assignments or overnight responses, to take examinations, to complete college-type papers, and to do independent work. During the second semester of this course, students will produce a college-level research project.

LA2106 CREATIVE WRITING (1 Semester/.5 Credit)

Grades 11, 12

PREREQUISITE: None

FEE: None

Creative Writing / Students who take Creative Writing will gain experience in writing close description, poetry, dialogue, short stories and drama. This course includes exercises in sensory description, characterization, word choice, simile and metaphor, and suspense. Students will also read numerous models of good writing from both student and professional writers. The overall goal of this course is to provide students with the skills and knowledge to create original and inviting pieces of writing in a number of genres. Students who take Creative Writing must be comfortable with constructive criticism and with sharing their writing with classmates on a regular basis.

LA2010 MYSTERY LITERATURE (1 Semester/.5 Credit)

Grades 11, 12

PREREQUISITE: None

FEE: None

This course will provide a critical understanding of American mystery/suspense novels and films and will also provide instruction on how to write suspenseful stories. In this class we will be reading and discussing many types of mysteries including: Cozy, Amateur Sleuth, Professional Sleuth, Police Procedural, Legal/Medical, Suspense, Romantic Suspense, Historical, Mixed Genre, Private Eye, Noir, Crime, and Caper. Additionally, through its focus on the analysis of film, this class is designed to be a rigorous opportunity to develop and refine skills of observation, analysis, and writing. Offered every other year.

**LA5100A - LA5100B
Credit)****AP ENGLISH LANGUAGE AND COMPOSITION (AP Weighted**

Grades 11, 12

PREREQUISITE: Teacher approval

FEE: None

Advanced Placement Language and Composition is a rigorous year-long elective class offered to juniors and seniors. This course provides a challenging environment for the advanced student who strives to go beyond competence to mastery. The focus of the class - as specified by the College Board—is on *rhetoric* (“the art of crafting effective texts for specific audiences”) and *style* (“the unique adaptation of language to ideas”). Its purpose is twofold: to prepare students for any and all writing they will encounter in the academic and professional environments, and to prepare them for the AP Language ex- am in the spring. In general, readings are non-fiction. Students apply their understanding of concepts through analysis of others’ writing and through production of their own exploratory and formal compositions.

**LA5410A - LA5410B
Credit)****AP ENGLISH LITERATURE AND COMPOSITION (AP Weighted**

Grade 12

PREREQUISITE: A grade of B or better in CP English 11 or AP Language and Composition.

FEE: None

This rigorous year-long course is recommended for interested students who are willing to engage in an intensive and challenging study of a writer's structure, style, and themes. Literary study involves close and mature analysis through critically reading and writing about representative literature from various genres and periods. Students are expected to read outside of class, to participate actively in class discussions, to complete assignments, to take examinations, to complete papers, and to work independently. This course prepares students not only for the AP Literature and Composition examination, but also for any subsequent college and professional writing. **Students may also choose to participate in the CU Succeed Gold Program, earning up to 6 college credits for English 1400 (Introduction to Literary Studies) and English 1200 (Introduction to Fiction).**

MS5205-MS5205B ADVANCED PLACEMENT SEMINAR (AP Weighted Credit)

Grades 10, 11, 12

PREREQUISITE: Successful completion of English 9 or 9H or with teacher approval

FEE: None

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, 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 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.

LA5310A-LA5310B ADVANCED PLACEMENT RESEARCH (AP Weighted Credit)

Grades 11, 12

PREREQUISITE: AP Seminar and a score on AP Seminar Exam

FEE: None

AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000-5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.

PS5501 FRC ENG 1021 English Comp I (.5 Credit)

Grade 12

PREREQUISITE: Successful completion of English 11 or higher

FEE: St. Vrain Valley Schools will pay the student share of tuition minus Colorado Opportunity Fund (COF).

The District is not responsible for payment of any additional fees other than tuition. Specifically the District will not reimburse for course related books, materials and fees.

Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing.

*This course is a Concurrent Enrollment (CE) course through FRCC and is 3 college credits. This is a statewide Guaranteed Transfer course in the GT-CO1 category.

*Additional steps required for the student to complete in order to sign up for the CE FRCC credit

*Students that have a 504 or IEP, are entitled to FRCC accommodations with no further steps to be taken. If a student needs accommodations above and beyond the standard FRCC accommodations, the student will need to complete an intake appointment with FRCC Disability Support Services.

PS5502 FRC ENG 1022 English Comp II (.5 Credit)

Grade 12

PREREQUISITE: English Composition 1021

FEE: St. Vrain Valley Schools will pay the student share of tuition minus Colorado Opportunity Fund (COF).

The District is not responsible for payment of any additional fees other than tuition. Specifically the District will not reimburse for course related books, materials and fees.

Expands and refines the objectives of English Composition I. Emphasizes critical/logical thinking and reading, problem definition, research strategies, and writing analytical, evaluative, and/or argumentative compositions.

*This course is a Concurrent Enrollment (CE) course through FRCC and is 3 college credits. This is a statewide Guaranteed Transfer course in the GT-CO2 category.

*Additional steps required for the student to complete in order to sign up for the CE FRCC credit.

*Students that have a 504 or IEP, are entitled to FRCC accommodations with no further steps to be taken. If a student needs accommodations above and beyond the standard FRCC accommodations, the student will need to complete an intake appointment with FRCC Disability Support Services.

Mathematics Sequence & Course Offerings

Mission: Every student will have an intensive mathematics course curriculum to build a strong foundation that enables success in post-secondary mathematics.

MATH PATHWAYS

HERE ARE THE FOUR OPTION T
*YOU CAN MOVE DIAGONALLY IF APP

9

ALGEBRA 1

ACCELERATED
ALGEBRA 1

10

GEOMETRY

HONORS
GEOMETRY

11

ALGEBRA 2

HONORS
ALGEBRA 2

12

STATISTICS

STATISTICS
PRE-CALC/TRIG

***Note:** 9th grade students can also start in AP Precalculus if they take Honors Algebra II in 8th grade.

In order to graduate from Longmont High School, three Math course credits of Algebra 1 or higher are required in grades 9-12.

For college admission requirements please refer to CCHE information.

All classes are one-year long and .5 credit per semester unless otherwise noted.

MA1110A - MA1110B ALGEBRA 1

Grades 09, 10, 11

PREREQUISITE: None

FEE: None

Algebra 1 focuses on four critical areas: (1) using units and relationships between quantities; (2) reasoning with equations and expressions; (3) analyzing and using linear, exponential, and quadratic functions; and (4) interpreting and displaying data using descriptive statistics. These concepts and associated skills are aligned with the Colorado Academic Standards for mathematics, incorporating 21st century skills and postsecondary and workforce readiness competencies.

MA1113A-MA1113B

ACCELERATED ALGEBRA 1

Grades 09, 10

PREREQUISITE: None

FEE: None

Accelerated Algebra 1 focuses on four critical areas in greater depth: (1) using units and relationships between quantities; (2) reasoning with equations and expressions; (3) analyzing and using linear, exponential, and quadratic functions; and (4) interpreting and displaying data using descriptive statistics. Students also have the opportunity to study absolute value inequalities, parallel and perpendicular lines, matrices to solve systems of equations, combinations and permutations, and rational expressions. Accelerated Algebra 1 is intended for students who took Algebra 1 in middle school and need further concept reinforcement.

MA1210A - MA1210B GEOMETRY

Grades 09, 10, 11

PREREQUISITE: Accelerated Algebra 1 or Algebra 1

FEE: None

Geometry focuses on three critical areas: (1) exploring congruence, similarity, and right-triangle relationships; (2) developing proof using constructions and coordinate geometry; (3) using area and volume to model and solve problems. These concepts and associated skills are aligned with the Colorado Academic Standards for mathematics, incorporating 21st century skills and postsecondary and workforce readiness competencies.

MA1213A - MA1213B HONORS GEOMETRY (Honors Weighted Credit)

Grades 09, 10

PREREQUISITE: Accelerated Algebra 1 Algebra 1 in 8th grade

FEE: None

Honors Geometry focuses on three critical areas in greater depth: (1) exploring congruence, similarity, and right-triangle relationships; (2) developing proof using constructions and coordinate geometry; (3) using area and volume to model and solve problems. Students also have the opportunity to study advanced geometric constructions, proving advanced properties of triangles and quadrilaterals, the Law of Sines and the Law of Cosines, and area and volume relationships among similar figures.

MA1410A - MA1410B ALGEBRA 2

Grades 10, 11, 12

PREREQUISITE: Geometry or Honors Geometry

FEE: None

Algebra 2 focuses on three critical areas: (1) analyzing and using absolute value, polynomial, rational, radical, exponential, and logarithmic functions; (2) exploring complex numbers and rational exponents; and (3) making statistical inferences from data and using the rules of probability. Algebra 2 is a foundational course for post-secondary mathematics, focusing on the relationship between tables, equations, and graphs of polynomial, rational, radical, exponential, logarithmic, and trigonometric functions. Along with these families of functions, statistics and probability are used for modeling phenomena and applying mathematics.

MA1412A - MA1412B HONORS ALGEBRA 2 (Honors Weighted Credit)

Grades 9, 10, 11, 12

PREREQUISITE: Honors Geometry

FEE: None

Honors Algebra 2 focuses on three critical areas in greater depth: (1) analyzing and using polynomial, rational, radical, exponential, logarithmic, and trigonometric functions; (2) modeling sequences and series with recursive and explicit functions; and (3) making statistical inferences from data. Students also have the opportunity to study matrices to solve multivariable systems of equations, the Fundamental Theorem of Algebra, the binomial theorem, rational and radical functions, properties of logarithms, and conic sections.

MA1720A - MA1720B PRE-CALCULUS with TRIG

Grades 10, 11, 12

PREREQUISITE: Algebra 2/Teacher recommendation

1

FEE: None

In Precalculus, students build mastery of modeling and functions. Students will explore Polynomial and Rational Functions, Exponential and Logarithmic Functions, and Trigonometric Functions. Successful completion of Precalculus will prepare students to enter AP Precalculus or Precalculus at the collegiate level.

MA1610 TRIGONOMETRY .5 Credit (Fall Semester)

Grades 10, 11, 12

FEE: None

Note: Taken the fall before PS4621 FRC MAT 1340 COLLEGE ALGEBRA

Trigonometry focuses on four critical areas: (1) trigonometric functions and their graphs; (2) the unit circle and radian measure; (3) trigonometric identities and equations; and (4) applications of trigonometry as a foundation for a variety of Science, Technology, Engineering, and Mathematics (STEM) pathways.

PS4621 FRC MAT 1340 COLLEGE ALGEBRA .5 Credit (Spring Semester)

Grades 10,11,12

PREREQUISITE: Trigonometry

FEE: St. Vrain Valley Schools will pay the student share of tuition minus Colorado Opportunity Fund (COF). The District is not responsible for payment of any additional fees other than tuition. Specifically the District will not reimburse for course related books, materials and fees.

Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM).

***This course is a Concurrent Enrollment (CE) course through FRCC and is 4 college credits. This is a statewide Guaranteed Transfer course in the GT-MA1 category.**

*Additional steps required for the student to complete in order to sign up for the CE FRCC credit

*Students that have a 504 or IEP, are entitled to FRCC accommodations with no further steps to be taken. If a student needs accommodations above and beyond the standard FRCC accommodations, the student will need to complete an intake appointment with FRCC Disability Support Services.

MA5005A - MA5005B ADVANCED PLACEMENT PRECALCULUS (AP Weighted Credit)

Grades 10, 11, 12

PREREQUISITE: Algebra 2/Teacher recommendation

1

FEE: None

In AP Precalculus, students build deep mastery of modeling and functions. Students will explore Polynomial and Rational Functions, Exponential and Logarithmic Functions, Trigonometric and Polar Functions, and Functions involving Parameters, Vectors, and Matrices. Successful completion of AP Precalculus will prepare students to enter AP Calculus or Calculus I at the collegiate level. **Students may choose to participate in the CU Succeed Gold Program and earn 4 semester hours of university credit.**

MA5105A - MA5105B ADVANCED PLACEMENT CALCULUS AB (AP Weighted Credit)

Grades 11, 12

PREREQUISITE: Pre-calculus

FEE: None

This course is designed for college bound students. This course prepares students for the Advanced Placement AB Test. Topics include limits and their properties, differentiation rules and instantaneous rate of change, antiderivatives and indefinite integration. The types of functions studied in the course include algebraic, rational, trigonometric and exponential functions. **Students may choose to participate in the CU Succeed Gold Program and earn 4 semester hours of university credit.**

MA5106C ADVANCED PLACEMENT CALCULUS LAB AB (AP Weighted Credit)

Grades 11, 12

PREREQUISITE: Pre-calculus

FEE: None

Calculus Lab is mandated to be taken concurrently with Advanced Placement Calculus AB during the first or second semester. This course will supplement the existing Advanced Placement Calculus AB course. Real world applications using derivatives and integrals will be a major focus of this course.

MA5110A - MA5110B ADVANCED PLACEMENT CALCULUS BC (AP Weighted Credit)

Grades 11, 12

PREREQUISITE: AP Calculus AB

FEE: None

AP Calculus BC is a continuation of AP Calculus AB, an introductory college-level calculus course. Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions. Both AP Calculus AB and AP Calculus BC are roughly equivalent to a two-semester sequence of introductory college calculus courses of a single variable. **Students may choose to participate in the CU Succeed Gold Program and earn 4 semester hours of university credit.**

MA1510A - MA1510B STATISTICS

Grades 11, 12

PREREQUISITE: Algebra 2

FEE: None

Statistics focuses on four critical areas: (1) data collection, experimental design, and descriptive statistics; (2) applying the rules of probability, conditional probability, and combinatorics; (3) discrete probability and normal distributions; and (4) correlation and regression. Students will explore concepts of statistics, probability, and data literacy through applications as a foundation for a variety of Science, Technology, Engineering, and Mathematics (STEM) pathways and for being an informed citizen.

MA5215A - MA5215B ADVANCED PLACEMENT STATISTICS (AP Weighted Credit)

Grades 11, 12

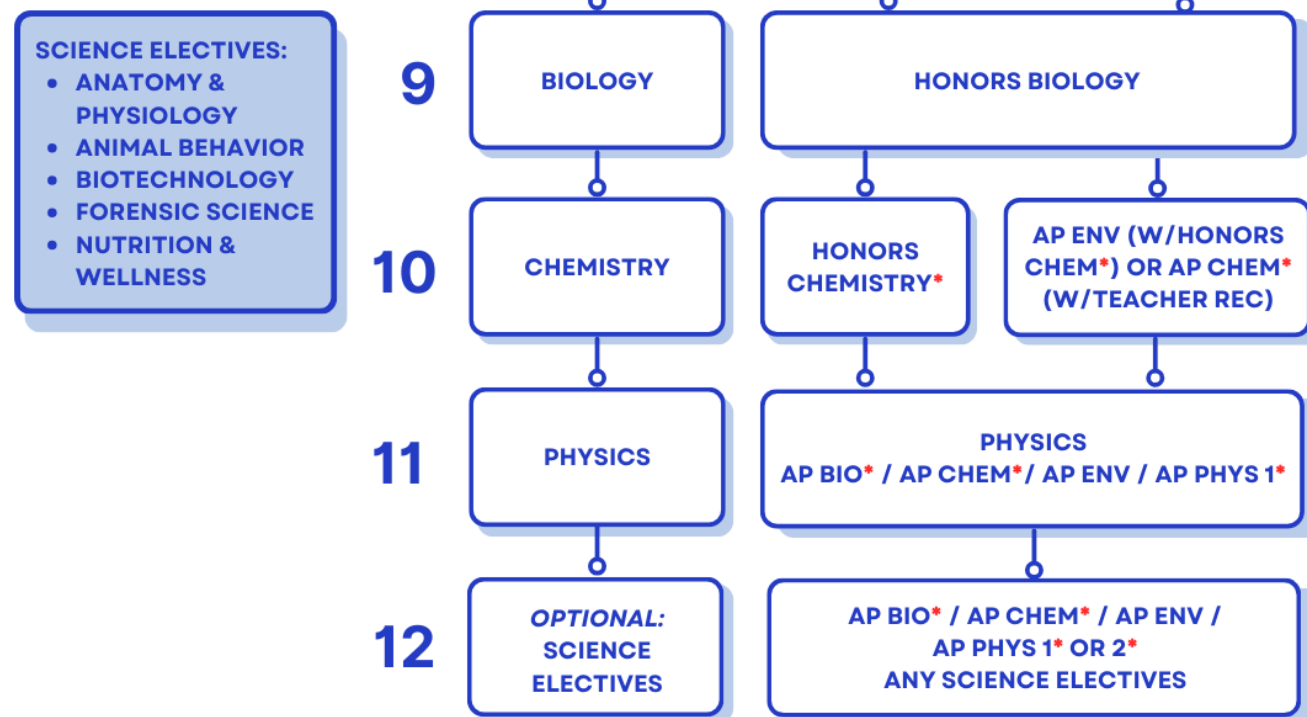
PREREQUISITE: Algebra 2

FEE: None

AP Statistics is an introductory college-level statistics course that introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students cultivate their understanding of statistics using technology, investigations, problem solving, and writing as they explore concepts like variation and distribution; patterns and uncertainty; and data-based predictions, decisions, and conclusions.

Science Sequence & Course Offerings (3 credits required)

SCIENCE PATHWAYS



NOTE: *ALL COURSES WITH A * ARE A COLLEGE-LEVEL COURSE WITH COLLEGE CREDIT OPTIONS.

Foundational Courses:

- Biology (9)
- Honors Biology (9)
- Chemistry (10)
- Honors Chemistry* (10)
- Physics (11, 12)

Science Electives:

- Anatomy & Physiology (11, 12)
- Animal Behavior (11, 12)
- Forensic Science (11, 12)
- Introduction to Biotechnology (11, 12)
- Nutrition and Wellness (11, 12)

Advanced Placement Science Courses:

- AP Biology* (11, 12)
- AP Chemistry* (11, 12)
- AP Environmental Science (10, 11, 12)

- AP Physics 1* (11, 12)
- AP Physics 2* (12)

**CU Succeed college credit may be earned for this course*

LHS Course Title	CU Succeed Course Title(s)	College Credit
AP Biology (Chou)	BIOL 2010, 2011, 2020, 2021	8 credits (CU Denver)
AP Chemistry (Knapp/Lubkeman)	CHEM 2031, 2038, 2061, 2068	9 credits (CU Denver)
AP Physics 1 (Herzog/Spirito)	PHYS 2010, 2321	5 credits (CU Denver)
AP Physics 2 (Spirito)	PHYS 2020, 2341	5 credits (CU Denver)
Honors Chemistry (Güida/Knapp/Lubkeman)	CHEM 1474	4 credits (CU Denver)

All classes are one-year long and .5 credit per semester unless otherwise noted.

SC1120A - SC1120B BIOLOGY

Grade 9

PREREQUISITE: None

FEE: \$5.00

This laboratory science course includes the following topics: cellular biology, biochemistry, patterns of inheritance, natural selection, ecology, diversity of life, homeostasis and human systems. Students will design, conduct, evaluate, and communicate about scientific investigations.

SC1121A - SC1121B HONORS BIOLOGY (Honors Weighted Credit)

Grade 9

PREREQUISITE: None

FEE: \$5.00

This academically rigorous blended learning laboratory science class is designed for students who excel in science and are college-bound. This course includes the following topics: biochemistry, cellular biology, patterns of inheritance, natural selection, ecology, diversity of life, homeostasis and human systems. Students will design, conduct, evaluate, and communicate about scientific investigations. This laboratory science class presents the student with opportunities for exploratory, open-ended scientific investigations. Success in Honors biology will require work outside the classroom.

SC5210A - SC5210B - SC5210C ADVANCED PLACEMENT BIOLOGY (1.5 AP Weighted Credit)

Grades 11, 12

PREREQUISITE: Honors Biology, Honors Chemistry

FEE: \$10.00

This course meets every day for 1 semester and every other day the other semester.

Advanced Placement (AP) Biology is a challenging, college-level course that explores key biological concepts, including molecular biology, genetics, evolution, ecology, and cellular processes. Students actively participate in hands-on labs, data analysis, and inquiry-based learning to develop a deeper understanding of

biology and its real-world applications. Through these activities, students build essential science practices such as designing experiments, interpreting data, and applying mathematical models. This course prepares students for the AP exam in May. Ideal for those interested in science careers, AP Biology provides a strong foundation in biological principles and the skills needed for success in STEM-related fields. **Students may choose to participate in the CU Succeed Gold Program and earn 8 college semester credits for General Biology.**

SC5100A - SC5100B ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE (AP Weighted Credit)

Grades 10, 11, 12

PREREQUISITE: Biology or Honors Biology, Algebra 1

FEE: \$10.00

This college-level, lab-based science course challenges students to explore how Earth's natural systems function and how human activity shapes the environment. Through hands-on investigations, data analysis, case studies, and field experiences, students will examine ecological relationships, energy flow, and a wide variety of global environmental issues. Students will evaluate risks, consider sustainable solutions, and discover how science, culture, and society intersect in addressing real-world problems. By the end, students will not only have a deeper understanding of our planet - they will also be well-prepared for the AP Environmental Science Exam.

SC1130A - SC1130B CHEMISTRY

Grade 10

PREREQUISITE: Biology, Algebra 1

FEE: \$5.00

This laboratory science course is designed for students who plan to pursue either non-science or science-related careers. Students study matter, change and energy, scientific measurement, problem solving, chemical names and formulas, chemical quantities, chemical reactions, stoichiometry, states of matter, behavior of gasses, atomic structure, chemical periodicity, ionic and covalent bonds, water and aqueous systems, properties of solutions, reaction rates and equilibrium, acids and bases and their salts. Students will engage in a variety of learning activities including labs, hands-on activities, discussions, lectures, and videos.

SC1135A - SC1135B HONORS CHEMISTRY (Honors Weighted Credit)

Grade 10

PREREQUISITE: Honors Biology, Algebra 1

FEE: \$5.00

This rigorous laboratory science course is designed for students who excel in science and are college-bound. Students study matter, change and energy, scientific measurement, problem solving, chemical names and formulas, chemical quantities, chemical reactions, stoichiometry, states of matter, behavior of gases, atomic structure, chemical periodicity, ionic and covalent bonds, water and aqueous systems, properties of solutions, reaction rates and equilibrium, acids and bases and their salts. Students will engage in a variety of learning activities including labs, hands-on activities, discussions, lectures, and videos. **Students may choose to participate in the CU Succeed Gold Program and earn 4 college semester credits.**

SC5320A - SC5320B - SC5320C ADVANCED PLACEMENT CHEMISTRY (1.5 AP Weighted Credit)

Grades 11, 12

PREREQUISITE: Honors Chemistry, Algebra 2

FEE: \$10.00

This course meets every day for 1 semester and every other day the other semester.

AP Chemistry is a rigorous laboratory science course intended for students with a high level of interest in science. This college-level course is the equivalent of two semesters of General Chemistry, including labs. The course provides students with a fundamental understanding of matter and change, scientific measurements, atomic and molecular properties, molecular geometry and bonding, solution chemistry, properties of solutions, gas laws, acids and bases, chemical equilibrium, thermochemistry, electrochemistry, and chemical kinetics. Laboratory experiments are conducted in connection with most topics. A scientific calculator is required. This course prepares students for the Advanced Placement Chemistry Examination. **Students may choose to participate in the CU Succeed Gold Program and earn up to 9 college semester credits for Chemistry Lectures and Labs.**

SC1140A - SC1140B PHYSICS

Grades 11, 12

PREREQUISITE: Geometry

FEE: \$5.00

Physics is a laboratory science course designed for students who plan to pursue either non-science or science-related careers. The course is also designed for students planning to enter military or civilian technical schools. The course covers forces, gravity, energy, waves, electricity, and magnetism. Group-based laboratory activities will be performed with each topic to reinforce the theory of physics and scientific practices. The emphasis in this course will be on conceptual understanding rather than on mathematical analysis of data.

SC5432A - SC5432B ADVANCED PLACEMENT PHYSICS 1 (AP Weighted Credit)

Grades 11, 12

PREREQUISITE: Chemistry or Honors Chemistry, Algebra 2 (with grade of C or better)

FEE: \$10.00

This course is the equivalent of a first-semester college course in algebra-based physics and is taught over a full academic year. This course covers Newtonian mechanics, which includes: kinematics, dynamics, rotational and angular motion, energy (and its relationship to work and power), and motion of fluids. Students will develop a deep conceptual understanding of the content by focusing on applying their knowledge through inquiry-based labs, in-depth explorations of topics, and through the development and interpretation of conceptual models. Student investigations will foster engagement in the practices of science through experimenting, analyzing, making claims and arguments, and solving problems in a collaborative setting where students direct and monitor their progress. This course prepares students for success in the AP Physics 1 Exam, and in subsequent college-level physics courses. **Students may choose to participate in the CU Succeed Gold Program and earn 5 college semester credits for College Physics I.**

SC5433A - SC5433B ADVANCED PLACEMENT PHYSICS 2 (AP Weighted Credit)

Grade 12

PREREQUISITES: AP Physics 1 (with a grade of C or better)

FEE: \$10.00

This course is the equivalent of a second-semester college course in algebra-based physics and is taught over a full academic year. This is a continuation of AP Physics 1. This course covers studies of: thermodynamics (and its relationship to kinetic theory and PV diagrams), electromagnetism (electrostatics, circuits, magnetism, and electromagnetic induction), physical and geometric optics (with an additional study of sound waves and standing waves), and topics in modern physics. Students will develop a deep conceptual understanding of the content by focusing on applying their knowledge through inquiry-based labs, in-depth explorations of topics, and through the development and interpretation of conceptual models. Student investigations will foster engagement in the practices of science through experimenting, analyzing, making claims and arguments, and solving problems in a collaborative setting where students direct and monitor their progress. This course prepares students for success on the AP Physics 2 Exam, and in subsequent college-level physics courses. **Students may choose to participate in the CU Succeed Gold Program and earn 5 college semester credits for College Physics II.**

SC2150A - SC2150B ANATOMY & PHYSIOLOGY

Grades 11, 12

PREREQUISITE: Biology and Chemistry

FEE: \$10.00

This academically rigorous honors-level elective laboratory science course will build on concepts learned in biology and chemistry. It will focus specifically on human anatomy and physiology. Emphasis will also be placed on healthcare careers. Through problem-based learning, students will learn how the structures (anatomy) of the human body fit their function (physiology) to maintain homeostasis. The different human body systems are taught along with types of tissues and anatomical terminology.

SC2125 ANIMAL BEHAVIOR (1 Semester/.5 Credit)

Grades 11, 12

PREREQUISITE: Biology or Honors Biology, can be taken concurrently with Physics

FEE: \$5.00

This is an enrichment class for students who have completed the Biology prerequisite and wish to explore animal behavior. This class explores topics related to behavior including courtship, learning, nature vs. nurture, defenses, finding food, mating, parenting, social behavior, emotional intelligence and human impact on species. Students will make observations of invertebrate and vertebrate behavior in this laboratory science class through readings, labs, discussions, project-based learning, case studies, scientific journals and videos. Animals of focus include mammals (various primates) and birds.

SC2140 FORENSIC SCIENCE (1 Semester/.5 Credit)

Grades 11, 12

PREREQUISITE: Biology and Chemistry, can be taken concurrently with Physics

FEE: \$5.00

This laboratory science course is designed for students who are interested in forensic science. In this course students gain experience in the major investigative techniques currently used by forensic scientists and crime scene investigators, and develop an understanding of the scientific concepts which serve as the basis for these techniques. Students will use scientific processes and critical thinking skills to analyze physical evidence through hands-on labs, activities and case study readings. Some of the topics to be covered include: crime scene documentation, forensic serology, bloodstain pattern analysis, fingerprinting, document examination techniques, DNA analysis, and forensic anthropology.

SC1155 INTRODUCTION TO BIOTECHNOLOGY (1 Semester/.5 Credit)

Grades 11, 12

PREREQUISITE: Biology/Honors Biology and Chemistry/Honors Chemistry

FEE: \$5.00

Introduction to biotechnology is a course designed to give students a comprehensive introduction to the scientific concepts and laboratory research techniques currently used in the field of biotechnology. Students attain knowledge about the field of biotechnology and deeper understanding of the biological concepts used. In addition, students develop the laboratory, critical thinking, and communication skills currently used in the biotechnology industry. Furthermore, students will explore and evaluate career opportunities in the field of biotechnology through readings, laboratory experiments, class discussions, research projects, and guest speakers.

SC2130 NUTRITION AND WELLNESS (1 Semester/.5 Credit)

Grades 11, 12

PREREQUISITE: Biology/Honors Biology and Chemistry/Honors Chemistry (10th grade MBSA students may take this course concurrently with Honors Chemistry)

FEE: \$5.00

The purpose of the course is to develop health-minded students with an understanding of wellness (mental, emotional, and physical) as a lifestyle, nutrition, marketing schemes, food and mood, essential nutrients and vitamins/minerals, decoding food labels and ingredients and overall best practices for feeling healthy and happy. Emphasis is placed on implementing healthy nutritional choices, developing a fitness/wellness plan, integrating science principles as related to nutrition, and practicing wise consumer decisions.

SOCIAL STUDIES (3 credits required plus PFL)

All classes are one-year long and .5 credit per semester unless otherwise noted.

SS1110A-SS1110B WORLD GEOGRAPHY/HISTORY

Grade 09

PREREQUISITE: None

FEE: None

World Studies explore timeless issues and themes through literature and history. By identifying themes and patterns students will be better able to connect the past to the present while simultaneously strengthening English Language standards. Areas of study will include the development of ancient civilizations and myths, cultural interaction and collision, revolutions and propaganda, various governmental systems, as well as current events in the world. Products from this class will include Socratic Seminars, and project-based learning and inquiry strategies. Students will develop essential skills in research, critical thinking, problem solving, reading, and writing as needed for future courses in either English or Social Studies. The course is taught by instructors who are passionate about teaching, learning, and instilling critical thinking skills in students to promote their understanding and awareness about the world around them.

SS1111A - SS1111B

HONORS WORLD GEOGRAPHY/HISTORY (Honors Weighted Credit)

Grade 09

PREREQUISITE: None

FEE: None

World Studies is an accelerated, in-depth study of the world. The focus will be significant events throughout world history incorporating literature, primary sources, cultural stories and nonfiction articles as a base. Areas of study will include the development of ancient civilizations and myths, cultural interaction and collision, revolutions and propaganda, various governmental systems, as well as current events in the world. Products from this class will include Socratic Seminars, and project-based learning and inquiry strategies. Students will develop essential skills in research, critical thinking, problem solving, reading, and writing as needed for future courses in either English or Social Studies. Assessments will be based on the district standards and students will primarily be assessed using a variety of higher-level thinking skills. While district standards will be employed for this course, students will go above, beyond and in depth for each area studied.

SS5935A-SS5935B ADVANCED PLACEMENT HUMAN GEOGRAPHY (AP Weighted Credit)

Grade 9

PREREQUISITE: Teacher Recommendation

FEE: None (Fee for AP Exam)

Advanced Placement (AP) Human Geography introduces students to the systematic study of the patterns and processes that shape human understanding, use, and modification of Earth's surface. Students will apply spatial concepts and landscape analysis to explore human socioeconomic organization and its environmental impacts. Students will also learn about the methods and tools geographers use in their research, as well as their practical applications in daily life.

This course is an excellent starting point for students pursuing an AP track in the social studies department, as well as for those beginning their AP journey. We will focus on developing note-taking skills, effective study habits, and enhancing academic rigor. Additionally, the course prepares students for the AP Human Geography Examination, offering the opportunity to earn college credit upon successful completion of the exam. It also fulfills the social studies requirement for World History/Geography.

SS1220A - SS1220B

UNITED STATES HISTORY

Grade 10

PREREQUISITE: None

FEE: None

U.S. History focuses on three critical areas: (1) the use of historical method of inquiry to ask questions, evaluate primary and secondary sources, critically analyze and interpret data, and develop interpretations defended by evidence; (2) the understanding of key concepts of continuity and change, cause and effect, complexity, unity, and diversity over time; and (3) the appreciation of the significance of ideas as powerful forces throughout history. Its intent is to help the students gain an understanding of the major political, economic and social events that have shaped the nations. The course emphasizes 20th and 21st century United States history and the contemporary world. These concepts and associated skills are aligned with the Colorado Academic Standards for Social Studies, incorporating 21st century skills and postsecondary and workforce readiness competencies

SS1221A - SS1221B HONORS UNITED STATES HISTORY (Honors Weighted Credit)

Grade 10

PREREQUISITE: None

FEE: None

This accelerated and in depth course covers the political, social and economic history of the United States from 1860 to the present. Extensive reading and writing is required. Students will write one scholarly essay per semester using peer reviewed sources. Reading materials include but are not limited to a textbook, primary source book and readings from an array of historical sources. This class is designed for the highly motivated social studies student with excellent reading, writing and technological skills.

SS5310A - SS5310B ADVANCED PLACEMENT UNITED STATES HISTORY (AP Weighted Credit)

Grades 10, 11, 12

PREREQUISITE: Teacher Recommendation

FEE: None

This course requires vigorous listening, reading, writing, thinking and study skills with an average of one-hour study per hour of class. The course is designed to survey U. S. history. This course prepares students for the United States History Advanced Placement Examination worth six semester hours at colleges that accept AP credit. This course fulfills the social studies requirements for United States History.

SS1333A - SS1333B CP US GOVERNMENT/ CO GOVERNMENT

Grade 11

PREREQUISITE: None

FEE: None

This accelerated course explores in depth the dynamics of the political system in the United States. It is designed as a class to prepare and enhance student's ability to become active participants in society. They will study local, state, and national issues with current events of the past and present that would possibly impact their influence in the future. There is extensive reading and writing that is required as well as civic service responsibilities. This class is designed for the highly motivated social studies students who are active in debates, discussions as well as offering reading and writing skills.

SS2120 PSYCHOLOGY (1 semester)

Grades 11, 12

PREREQUISITE: None

FEE: None

This course offers students an opportunity to investigate human behavior and mental processes. The basic course addresses topics and issues relevant to the high school students who want to know more about the following areas: History and research methods, Memory, Learning, the Brain and Psychological disorders. Public speaking is a big part of this class.

SS5725A - SS5725B**ADVANCED PLACEMENT PSYCHOLOGY (AP Weighted Credit)**

Grades 11, 12

PREREQUISITE: Must be willing to read

FEE: None

This course is recommended for students who excel in the social sciences, general academics, and are motivated to academic rigor. The purpose of AP Psychology is to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles and phenomena associated with each of the major subfields within psychology. Students examine all five domains in psychology: History and Methods of Research; Human Development; Biopsychological; Cognitive; Clinical (Abnormal and Therapies); and Social Domain. Course evaluation is based on class participation, assessments, research, and independent work (note cards). Additionally, students are expected to read material outside of class. This course prepares students to take the Psychology Advanced Placement Examination. **Class may be eligible for CU Succeed to earn 3 semester hours per semester of University credit (6 Total).**

SS5830 - SS5831 ADVANCED PLACEMENT MICRO- AND MACRO-ECONOMICS (AP Weighted Credit)

Grades 11, 12

PREREQUISITE: None

FEE: None

AP Microeconomics and Macroeconomics are similar to a freshman level college course. The sequence is designed to give students a foundation in basic economic concepts that are essential to understanding consumer, business, and public policy decision making. Areas of study in microeconomics include the market forces of supply and demand, competition, business organization, and consumer behavior. Macroeconomics topics include measuring the health of a nation's economy, international trade, and debate over the proper level of government interaction with the economy. In addition to providing essential knowledge for successful functioning in today's challenging economic times, this course also prepares students for the Microeconomics and/or Macroeconomics Advanced Placement Examinations.

SS5205A –SS5205B ADVANCED PLACEMENT US GOVERNMENT and POLITICS (AP Weighted Credit)

Grades 11, 12

PREREQUISITE: Must be willing to read

FEE: None

This course is an in-depth study of the American Political Systems, including philosophical foundations;

linkage institutions; in-depth analysis of the three primary branches; heavy emphasis on constitutional law; and the application of these practices is domestic, foreign and economic policy. This course blends experiential learning modules and traditional collegiate learning systems requiring rigorous reading, writing, thinking and study skills, requiring at least one hour of homework per class. This course prepares students for the Advanced Placement Government and Politics Examination. This course fulfills the Social Studies requirements for Government and Economics in 11th grade, and can potentially fulfill collegiate Social Studies prerequisite requirements pending successful passage of the exam.

SS5520A - SS5520B

ADVANCED PLACEMENT EUROPEAN HISTORY (AP Weighted Credit)

Grades 11, 12

PREREQUISITE: World Studies, U.S. History, and Teacher Recommendation

FEE: None

This course covers European History from 1450, the High Middle Ages and the Renaissance, to contemporary events. Using debates, trials, investigative reports and other learning approaches, students examine people and issues – intellectual, artistic, political, social and economic – which shape our world today. This course prepares students for the European History Advanced Placement Examination. The completion of a summer assignment is required by all enrolling students. Students will be contacted prior to summer vacation.

SS1440

PERSONAL FINANCIAL LITERACY* (1 semester)

Grades 9, 10, 11, 12

PREREQUISITE: None

FEE: None

Personal Financial Literacy focuses on four critical areas: (1) designing and analyzing financial plans for short and long-term goals; (2) analyzing spending, saving, and investment options; (3) analyzing the components of credit and debt; and (4) identifying, developing, and evaluating risk-management strategies. The course emphasizes the analytical and evaluation skills to become “fiscally fit.” These concepts and associated skills are aligned with the Colorado Academic Standards for Social Studies, incorporating 21st century skills and postsecondary and workforce readiness. * **Fulfills the PFL graduation requirement**

GRADUATION REQUIREMENTS FOR ELECTIVE COURSES

FINE ARTS:

.5 Credit must be earned from one of the following areas for graduation.

ART
MUSIC
THEATER

PERSONAL FINANCIAL LITERACY:

.5 Credit must be earned for graduation.

(WEALTH MANAGEMENT and AgriScience B also meet this requirement)

PRACTICAL ARTS:

.5 Credit must be earned from one of the following areas for graduation.

BUSINESS
COMPUTER SCIENCE
ENGINEERING
YEARBOOK

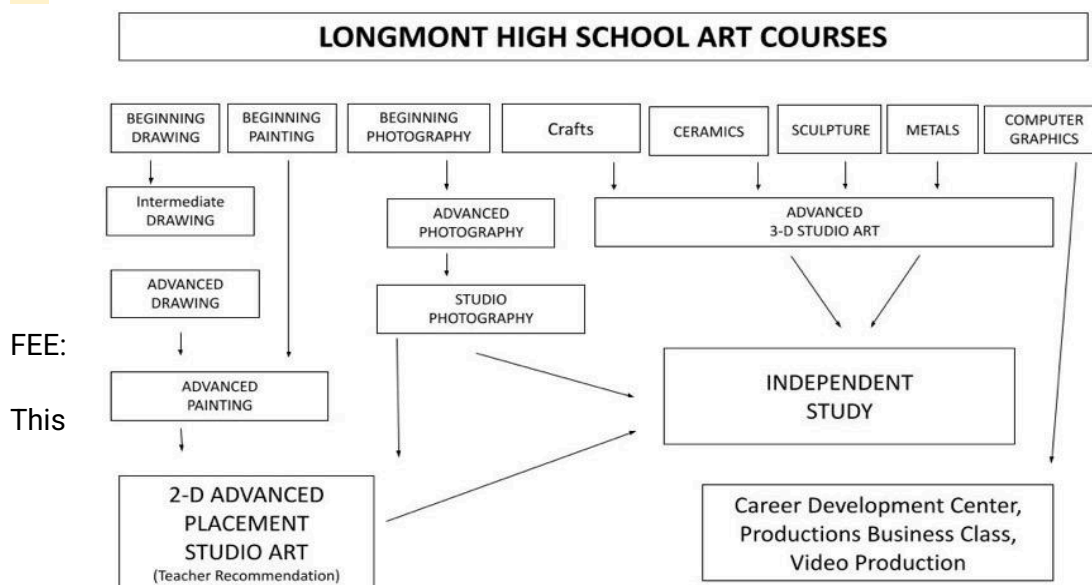
PHYSICAL EDUCATION:

2 Credits must be earned for graduation

.5 Credit for Health is required for graduation

WORLD LANGUAGES: Although not a graduation requirement, most post-secondary programs recommend one World Language through the 2nd or 3rd level.

Art Course Sequence & Offerings

All

classes are one semester long and .5 credit unless otherwise noted.

A1101 BEGINNING CERAMICS

Grades 09, 10, 11, 12

PREREQUISITE: None

\$30.00

course will provide an in-depth study of ceramics using earthenware clay. Techniques may

This chart is designed to help you decide which art courses to take in order to meet your needs. By using the chart, you can easily see which courses you need to take first, which courses have prerequisites, and how many courses are available in each area. Use the Course Description Book for full descriptions of all the courses.

include, pinch, coil, slab, wheel throwing and glazing. Students will be encouraged to create original designs while producing useful and/or decorative objects.

A1103 ADVANCED CERAMICS

Grades 10, 11, 12

PREREQUISITE: Beginning Ceramics

FEE: \$30.00

Students will continue to develop the skills learned in Beginning Ceramics while exploring advanced Ceramic techniques as well as surface decoration. Students who take this course should have a high level of motivation, diligence, commitment and independence. Students will be encouraged to develop a personal direction or “voice” in their work.

A1211 BEGINNING DRAWING

Grades 09, 10, 11, 12

PREREQUISITE: None

FEE: \$30.00

This class focuses on realistic drawings with understanding of the mechanics of light, shadow and proportion. This approach allows beginning students to develop technical and compositional skills to make drastic improvements in their drawing abilities and more experienced artists to refine their skills. Drawing projects are taught through various techniques such as right brain drawing, grid drawing, value gradients, portrait art, and still life. Mediums covered may include: graphite, charcoal, pen & ink, color pencil.

A1212 INTERMEDIATE DRAWING

Grades 09, 10, 11, 12

PREREQUISITE: Beginning

Fee: \$30.00

This course covers more advanced skills not possible at the beginning level. Experimentation in additional drawing materials and techniques are covered such as perspective drawing, physical anatomy, figure drawing, pastels, pen and ink.

A1213 ADVANCED DRAWING

Grades 10, 11, 12

PREREQUISITE: Beginning Drawing and Intermediate Drawing with a grade of C or better.

FEE: \$30.00

This class is recommended for students who excel in Drawing. Students who take this course should have a high level of motivation, diligence, commitment, and independence. Students will be encouraged to develop a personal direction or “creative voice” in their work. In addition to work created in class, students will be expected to work outside class time, participate in critiques and discussions, complete daily exercises to advance skills, maintain a sketch book, and mat their work for showings.

A1830 COMPUTER GRAPHICS

Grades 09, 10, 11, 12

PREREQUISITE: None

FEE: \$30.00

This class introduces students to the basic theory and concepts of visual communication used to present information and promote a message. Students must have a previous understanding of the elements and principles of design. Skills taught may be typography, image development, layout, scanning images, manipulating photographs, and creating digital artwork. Students will be exposed to the Adobe Suite of graphics programs such as Adobe Illustrator and Photoshop. Class projects may include: logo design, poster design, brochure design, and packaging design. Students will be graded on their use of elements and principles of design, originality, workmanship, and technical proficiency in each project undertaken.

A1701 CRAFTS

Grades 09, 10, 11, 12

PREREQUISITE: None

FEE: \$30.00

This introductory course is designed to give students creative experience in 2D and 3D art while learning the elements and principles of design that makes crafts successful. Class projects may include batik, drawing, handmade boxes, mixed media collage, painting, polymer clay, printmaking, and weaving. Students will be working on their craftsmanship, and their technical proficiency in each project. Students will be able to choose between one day or multiple day projects.

A1401 BEGINNING PAINTING

Grades 09, 10, 11, 12

PREREQUISITE: None

FEE: \$30.00

Students will develop a strong foundation in basic painting techniques, composition, and color theory. Students will incorporate the elements of art principles of design in a variety of paintings aimed at increasing the student's artistic self-confidence.

A1403 ADVANCED PAINTING

Grades 10, 11, 12

PREREQUISITE: Beginning Painting with a grade of C or better.

FEE: \$30.00

This class is recommended for students who excel in Painting. Students who take this course should have a high level of motivation, diligence, commitment, and independence. Students will be encouraged to develop a personal direction or "voice" in their work. In addition to work created in class, students will be expected to work outside class time, participate in critiques and discussions, complete daily exercises to advance skills, maintain a sketch book, and mat their work for showings.

A1521 BEGINNING DIGITAL PHOTOGRAPHY

Grades 09, 10, 11, 12

PREREQUISITE: None

FEE: \$30.00

Beginning Digital Photography is an exciting, fast-paced course designed to expose students to a variety of digital photography projects. These projects will examine the following topics and much more: depth of field, portraiture, selective focus, composition, decisive moments, and student choice. Students will discover tips for taking exceptional photographs, while learning strategies to manipulate their photos in digital art programs. Furthermore, students will observe a variety of digital artists and photographers from around the world. At the end of this course students will gain a deeper understanding of contemporary digital art, as well as, photography by creating a portfolio of their digitally created artwork.

A1523 ADVANCED DIGITAL PHOTOGRAPHY

Grades 10, 11, 12

PREREQUISITE: Beginning Digital Photography with a grade of C or better.

FEE: \$30.00

Advanced Digital Photography is designed to advance art skills and thought processes in preparation for Studio Photography of AP Studio Art. Students will continue to examine the principles of design and elements of art while using various digital art programs and technologies to explore design opportunities with cameras and computers. This course continues to foster an understanding of artists and art history, as well as writing and discussing art making on a regular basis. To complete this course students will create a final portfolio.

A1915 STUDIO PHOTOGRAPHY

Grades 10, 11, 12

PREREQUISITE: Beginning & Advanced Digital Photography with a grade of C or better.

FEE: \$30.00

Students will learn to use materials, tools and techniques for color, digital photography. Specifics include: exposure with a Digital SLR camera and advanced/experimental Adobe Photoshop and Lightroom tools and techniques. The entire semester is digital. Appreciation of photography as an art form and mode of communication is stressed. This class is for students interested in pursuing photography further and who are self-motivated. The reading for this course is often technical; therefore, better than average reading skills are recommended. A DSLR camera is not required, but beneficial to have.

A1301 BEGINNING METALS

Grades 09, 10, 11, 12

PREREQUISITE: None

FEE: \$30.00

Students will explore various metalsmithing techniques. Cutting, forging, annealing, soldering, polishing techniques, and Glass Fusion are just a limited listing of the different techniques explored. Many of the materials and equipment used are potentially dangerous to people with health concerns like breathing disorders or motor skills disorders.

A1303 ADVANCED METALS

Grades 10, 11, 12

PREREQUISITE: Beginning Metals

FEE: \$30

Students will continue to develop the skills learned in Beginning Metals while exploring advanced metalsmithing techniques such as casting, hollow form, chain making, bezel setting, alternative jewelry, and cold joining. Students will use these techniques in addition to further developing the techniques and skills learned in Metals 1 to create functional and/or sculptural works of art. *Many of the materials and equipment used are potentially dangerous to people with health concerns like breathing disorders or motor skills disorders.

A1601 BEGINNING SCULPTURE

Grades 09, 10, 11, 12

PREREQUISITE: None

FEE: \$30.00

This course provides an opportunity for students to work with a variety of media in the development of three dimensional forms. Starting with the basic design principles, the student will apply additive, subtractive, modeling, and assemblage techniques. Media projects will include; but are not limited to: plaster, wood, paper, plaster wrap, paper mache, wire, and clay.

A1603 ADVANCED SCULPTURE

Grades 10, 11, 12

PREREQUISITE: Beginning Sculpture

FEE: \$30

Students will continue to develop the skills learned in Beginning Sculpture while exploring more advanced Sculpture techniques. Students who take this course should have a high level of motivation, diligence, commitment and independence. Students will be encouraged to develop a personal direction or "voice" in their work.

A1530 VIDEO PRODUCTION

Grades 9, 10, 11, 12

PREREQUISITE: None

FEE: \$30.00

This course is designed to acquaint students with the basics in the area of video production and to give them experience in producing a daily broadcast of school announcements, news, and short films. Students will learn basic elements of using a video camera, lighting, green screen effects, operation switching units and character generators, editing, audio mixing, and operating a production studio. Students will create videos and edit them using Final Cut Pro. This will be a hands-on, project-based class with students being responsible for the production of several kinds of videos. These projects will include, but are not limited to , news items, feature stories, public service announcements, composting projects, music videos and short stories.

A1543 ADVANCED STUDIO ART: DIGITAL MEDIA

Grades 9, 10, 11, 12

PREREQUISITE: Video Production

FEE: \$30.00

Students will address the theory and practice of film/video production. They will be expected to understand: camera operation, audio control, basic directing, lighting, and editing. Students will also be expected to learn the terminology of video pre-production, production, post-production and distribution. They will use this terminology competently to direct individual and group video shorts, using camcorders, DSLR cameras, Lavalier/handheld/boom microphones, lighting equipment, and edit footage in Final Cut to incorporate special effects, computer graphic overlays to enhance the final product. The video projects will be used for school-based and district-based events. They will develop a digital video portfolio for college and career placement.

A5110A - A5110B ADVANCED PLACEMENT STUDIO ART (2D) (1 AP Weighted Credit)

PREREQUISITE: Beginning & Advanced Drawing / Painting (or two equivalent foundations courses),
Advanced level, two-dimensional art course and teacher signature.

FEE: \$55.00 (Exam fee NOT included)

This course is designed to be the equivalent of the general entry-level college art course. It is recommended for students who excel in various two-dimensional art techniques and media. Students who take this course should have a high level of motivation, diligence, commitment, and independence. In addition to the portfolio examination, students will be expected to create artwork outside of class time, participate in class critiques and discussions, complete daily exercises to develop skills, prepare slides, and mat their own work. Drawing from observation will be emphasized, and students will be encouraged to develop a personal direction in their work. To obtain college credit, students will prepare and submit an essay and portfolio with three sections: Quality (for which actual artwork is submitted); Concentration (an in-depth, individual exploration, submitted as slides); and Breadth (demonstration of a wide range of experience, submitted as slides). This course prepares students for the Studio Art 2-D Advanced Placement Examination.

A5310A - A5310B ADVANCED PLACEMENT ART HISTORY (1 AP Weighted Credit)

PREREQUISITE: None

FEE: None

AGILE

This class is available remotely via AGILE. Explore the history of art across the globe from prehistory to the present. You'll analyze works of art through observation, discussion, reading, and research. You learn how to evaluate works of art from different eras and cultures, see connections to artistic traditions, styles, or practices in a work of art, develop a theory about the meaning of a work of art and explain and support your interpretation.

COMPUTER SCIENCE & ENGINEERING COURSES

All classes are one semester long and .5 credit unless otherwise noted.

9th Grade	10th Grade	11th Grade	12th Grade
Computer Science Foundations (Python)	AP Computer Science Principles (Python)	AP Computer Science A (Java)	Capstone: Engineering & Technology
Introduction to Engineering Design Onshape Certificate	Digital Electronics I - Arduino Jr. Certification	Digital Electronics II - Arduino Certification	WBL: Engineering & Technology
	SolidWorks Certification (A/B) CSWA	SolidWorks Certification (A/B) CSWP	Automation, AI & Quantum Computing*

CTE9770 Intro to Engineering Design

Grades 9,10,11,12

PREREQUISITE: None

FEE: \$15.00

This introductory course teaches students the principles and foundations of engineering across different disciplines while learning project management and engineering skills. Students will learn the engineering design process, prototyping, testing, and evaluating products, and reiteration and will develop solutions to both teacher and student directed challenges. They will also develop a solid foundation in OnShape, a 3D CAD design software. This course provides the foundational learning for more advanced engineering coursework.

CTE2150 Computer Science Foundations

Grades 9,10,11,12

PREREQUISITE: None

FEE: \$15.00

In this course, students will explore the foundations of computer science through the Python programming language. They'll learn how to write, structure, and debug code while developing logical and creative problem-solving skills. Beyond the screen, students will bring their code to life by controlling physical hardware using the Arduino Uno Q and integrating sensors, lights, and motors to create interactive systems. By the end of the course, students will understand how software and hardware work together to sense, compute, and act, which are the foundation of robotics, automation, and intelligent systems.

CTE1560 Digital Electronics 1

Grades 9,10,11,12

PREREQUISITE: Introduction to Engineering or Computer Science Foundations, Algebra 1(Passed with a C or better)

FEE: \$15.00

Students explore the foundations of modern electronics through hands-on projects in physical computing, circuit design, and digital logic. Using Arduino microcontrollers, students build and program circuits that

sense and respond to the physical world while learning how binary systems, logic gates, and digital signals form the basis of all computing technology. Emphasis is placed on creativity, problem-solving, and engineering documentation as students design, prototype, and test their own interactive electronic systems.

CTTE1561 Digital Electronics 2

Grades 10,11,12

PREREQUISITE: Digital Electronics I, Algebra 1 (passed with a C or better)

FEE: \$15.00

Building on the foundations of Digital Electronics I, students dive deeper into sensor integration, data collection, and advanced programming using Arduino microcontrollers. Through increasingly complex projects, students learn to apply libraries, serial communication, and modular circuit design to create intelligent systems that interact with their environment. The course culminates in the Arduino Certification, demonstrating proficiency in electronics, coding, and troubleshooting real-world digital systems.

CTE5010A-CTE5010B ADVANCED PLACEMENT COMPUTER SCIENCE A (1 Year/1 AP Weighted Credit)

GRADES 10, 11, 12

PREREQUISITE: Computer Science Foundations, Algebra 2 or Honors Algebra 2, Teacher Recommendation

FEE: \$15.00

AP Computer Science A is equivalent to a first-semester, college level course in computer science. The course introduces 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. The course emphasizes both object-oriented and imperative problem solving and design using Java language and prepares students to take the College Board AP Computer Science A examination.

CTE2171A/B SOLIDWORKS (1.0 credit)

GRADES 10, 11, 12

PREREQUISITE: Introduction to Engineering, Algebra 1

FEE: \$15.00

This year-long course immerses students in 3D modeling, mechanical design, and computer-aided engineering using SolidWorks, the industry-standard software for product development. Students progress from sketching and part modeling to creating complex assemblies and detailed engineering drawings while applying real-world design principles. Emphasis is placed on precision, manufacturability, and design documentation. By the end of the course, students are prepared to earn their Certified SolidWorks Associate (CSWA) or Certified SolidWorks Professional (CSWP) certification, demonstrating readiness for engineering and design careers.

OTHER ELECTIVES

All classes are one semester long and .5 credit unless otherwise noted.

H1100

HEALTH

Grade 9

PREREQUISITE: None. **THIS CLASS IS REQUIRED FOR GRADUATION, usually taken in 9th grade**

FEE: None

The St. Vrain Valley School District health curriculum is designed to provide all students with essential learning that will promote a healthy lifestyle and optimal wellness. The expectation is that the coursework and assignments will assist students in making informed decisions regarding behaviors that affect the various aspects of health and wellness.

AIDE TEACHER (1 Semester/.25 Credit)

Grades 10, 11, 12

PREREQUISITE: None. Application in Counseling Office

FEE: None

There are opportunities for students to act as student aides and receive credit for that aiding. However, these opportunities must be arranged with the teacher or the clerical staff at the beginning of a semester. Students cannot pre-register for aiding positions. Students should register for a full schedule then, if an aiding position is available and approved, the student's schedule will be adjusted at the beginning of the appropriate semester. These opportunities include class- room teacher aide or office aide (this is a Pass/Fail course). This class may be repeated.

ASSISTANT SPECIAL EDUCATION

Grades 10, 11, 12

PREREQUISITE: Special Education Teacher Approval/Good Attendance Record 2.5 Cumulative GPA

FEE: None

Special Education Assistants will have a variety of responsibilities depending upon the teacher and block assigned. Students may assist the Special Education teacher and/or may be a direct assistant to a student who has special needs. Students will receive training to work with students with disabilities. Special Education Assistants must be mature, reliable, have a positive attitude, and be accepting of people with differences. Please see a Special Education teacher if you are interested in a position. National Honor Society students may receive community service hours in place of credit if preferred (this is a Pass/Fail course). This course may be repeated.

ASSISTANT TEACHER ELEMENTARY/MIDDLE SCHOOL EDUCATION

Grades 10, 11, 12

PREREQUISITE: Teacher' s Approval/Good Attendance Record/At least 2.5 Cumulative GPA

FEE: None

The student assistant will work at an assigned elementary or middle school under the direction of a teacher. The student will perform a variety of tasks and will work with the younger students. The student will be expected to be in attendance daily for 90 minutes, provide his or her own transportation to and from the elementary or middle school, and be responsible for calling the assigned school when they are ill and cannot attend. The supervising elementary or middle school teacher will evaluate the student's performance to determine their grade. (This is a Pass/Fail course.) Please, see a counselor if you are interested in becoming an elementary or middle school assistant. This course may be repeated.

PA3020A - PA3020B

(09, 10, 11, 12)

PREREQUISITE: None

FEE: \$120.00

DEBATE/FORENSICS

1 Semester

.5 Credit

Participation Fee (subject to SVVSD requirements and subject to change)

This course is designed for students who want to develop their potential in competitive public speaking. Options for students include oral interpretation, debate, extemporaneous speaking, student congress, and original oratory. These units emphasize critical thinking skills, research writing, and persuasive speaking.

***Students are required to compete in two events sanctioned by the Colorado High School Activities Association.**

LIBRARY ASSISTANT AIDE

Grades 09, 10, 11, 12

PREREQUISITE: Application process

FEE: None

Student Library Assistants are integral in the daily maintenance and organization of the LHS library. Assisting in the library provides a student with genuine work experience in a safe learning environment. Students who are interested in working in the library complete an application form that lists library duties. Good attendance and a minimum 2.5 GPA are required. Library Assistant Aide is a Pass/Fail course and can be repeated.

CTE 9210A/9210B SPORTS MARKETING & EVENT PRODUCTION (1 Year/1 Credit)

Grades 09, 10, 11, 12

PREREQUISITE: Application Process

FEE: None

Are you passionate about sports and intrigued by the world of marketing and event management? This dynamic and engaging course offers high school students the opportunity to delve into the exciting realm of sports marketing and event production. Through a combination of theoretical knowledge, practical applications, and hands-on experiences, students will develop a comprehensive understanding of how the sports industry and marketing strategies intersect to create unforgettable sporting events. Attending sporting events and media day photo shoots are a part of the course curriculum and student attendance may be required.

MS1172A - MS1172B

STUDENT COUNCIL (1 Year/1 Credit)

Grades 09, 10, 11, 12

PREREQUISITE: Application Process & Interview

FEE: Variable fees may apply

Students cannot register for Student Council (StuCo), but must interview and be appointed to the class. This class is a leadership class in which the students will develop skills that include organization, time management, event planning, and other leadership skills. Student Council is also in charge of planning school events, hosting community service projects and attending team-building events such as leadership conferences. This is a great opportunity to develop your leadership skills and to get involved, but let it be known that the normal classroom requisites of responsibility, accountability, and work ethic very much apply. If you are interested in Student Council, you need to pick up an application from the main office or talk to Mr. Kingsbury in December in the second semester. If you are an 8th grader who is interested, please follow the directions given to you at the time of registration.

LA2429A - LA2429B

YEARBOOK (1 Year/1 Credit)

Grades 09, 10, 11, 12

PREREQUISITE: Application Process

FEE: None

This course is open to students interested in producing the school's yearbook. Staff members must show strong skills in writing, photography, and/or graphic design. Students should have excellent attendance, be able to work well as part of a team, and be able to meet deadlines. Staff members will have the opportunity to design and produce every facet of the book in accordance with that year's theme. Students will have the chance to learn digital photography, graphic design, and desktop publishing skills using the Adobe Creative Cloud Suite as part of the course. High standards of journalism, journalistic integrity, and contemporary design will be expected. Students with prior experience or exceptional skills will be considered for positions as editors and team leaders. This class is repeatable and is considered a Practical Arts Elective. The application can be accessed at www.tinyurl.com/LHSPriamApp

PERFORMING ARTS

MUSIC COURSES

BAND COURSES

MU1008 MARCHING BAND (1 Semester/.5 Credit/Fall)

Grades 09, 10, 11, 12

PREREQUISITE: None

FEE: \$50.00

The Trojan Marching Band has been the cornerstone of the band program since 1922. The goal of the marching band is to perform music at the highest level possible and have fun at the same time. Students will hone their skills on band instruments with emphasis on technique and fundamentals. The marching band will prepare an entertaining field show and perform at football games, parades and festivals around Colorado. In October, the marching band becomes a concert band and will perform a Halloween concert and a winter concert in December. Attendance at performances is required. Band students are required to attend our band camp during the first week of August. Be a part of this outstanding tradition! This is a one semester class and is offered first semester only. This course may be repeated.

MU1101A FALL CONCERT BAND (1 Semester/.5 Credit/Fall)

Grades 09, 10, 11, 12

PREREQUISITE: None

FEE: \$20.00

Fall Concert Band is a fall class dedicated to the concert band experience. Fall Concert band will rehearse music of various genres in both a full ensemble and chamber setting. Emphasis is placed on technique and fundamentals. Students will perform in two fall concerts. Students must own or purchase Foundations For Superior Performance for his or her instruments. This course is offered only Fall semester and may be repeated.

MU1102 BLUE BAND (1 Semester/.5 Credit/Spring)

Grades 09, 10, 11, 12

PREREQUISITE: Audition Only

FEE: \$20.00

Blue Band is for advanced band students who wish to play challenging band literature. This class requires hard work and dedication and students will be rewarded with a wonderful musical experience. Students will perform at solo/ ensemble festivals, concert band festivals, two spring concerts and high school graduation. Auditions will be held early fall. Students must own or purchase Foundations For Superior Performance book for their instrument. This class is offered only spring semester and may be repeated.

MU1103 WHITE BAND (1 Semester/.5 Credit/Spring)

Grades 09, 10, 11, 12

PREREQUISITE: None

FEE: \$20.00

White band is designed to provide a high school band experience for students who have a thorough understanding of the basic fundamentals of music. The Band will perform quality literature from all stylistic periods at concert band festivals, two spring concerts, and graduation. This is a performance oriented learning experience with all rehearsals and performances are mandatory. Students must own or purchase Foundations for Superior Performance book for their instrument. This course is offered only spring semester and may be repeated.

MU1104 COLOR GUARD (1 Semester/.5 Credit/Fall)

Grades 09, 10, 11, 12

PREREQUISITE: None

FEE: \$50.00

Have you ever wanted to throw a rifle or swing a flag? This class is for you! The color guard is a vital component of the marching band. This group will perform at various competitions and festivals around Colorado as well as home football games and parades. Color guard does require weekly rehearsals outside of class. Color guard is a competitive unit and attendance at performances and rehearsals is mandatory. Color guard students are required to attend band camp during the first week of August and some additional rehearsals. This is a one-semester class and is offered first semester only. This course may be repeated.

MU1202A - MU1202B INTERMEDIATE JAZZ BAND (1 Year/1 Credit)

Grades 09, 10, 11, 12

PREREQUISITE: Concurrent enrollment in Fall band or a concert band (White/Blue Band).

FEE: \$20.00 and Jazz band uniform

Also known as "Jazzology," the intermediate jazz ensemble is a performance-oriented class, and students will be required to attend all rehearsals and performances. It is required to be registered for Fall Band and either Blue or White band to be a member of the Intermediate Jazz Ensemble. Students will learn the basic "Swing" jazz style, as well as the art of improvisation. There will be several performances throughout the year, and may include participation in local jazz festivals. This course may be repeated for credit. Students are required to purchase a jazz band uniform.

MU1203A - MU1203B ADVANCED JAZZ BAND (1 Year/1 Credit)

Grades 09, 10, 11, 12

PREREQUISITE: Audition and concurrent enrollment in Fall band or a concert band.

FEE: \$20.00 and Jazz band uniform

Also known as “The Rhythmaires,” the advanced jazz ensemble is a performance- oriented class, and students will be required to attend all rehearsals and performances. It is required to be registered for Fall band and either Blue or White band to be a member of the Advanced Jazz Ensemble. Students will learn several jazz styles from Dixieland on up to today’s modern jazz styles. The art of improvisation will be explored with an emphasis on every student being able to perform a solo. There will be several performances throughout the year, and may include participation in local and/or national jazz festivals. This course may be repeated for credit.

MU1310 PERCUSSION ENSEMBLE (1 Semester/.5 Credit)

Grades 09, 10, 11, 12

PREREQUISITE: NONE

This fun, hands-on class is perfect for students of all levels, from beginners to advanced players! Learn or refine techniques on a variety of percussion instruments while playing dynamic ensemble music from a variety of genres. Whether you're just starting out or looking to deepen your skills, you'll develop rhythm, music reading skills and musical expression in a supportive environment. This ensemble will perform twice throughout the semester.

MU1315A UNIFIED PERCUSSION (1 Semester/.5 Credit)

Grades 09, 10, 11, 12

PREREQUISITE: NONE

Fee: \$20

The Unified Percussion Ensemble connects students with and without intellectual disabilities. The ensemble is composed of student mentors with previous experience in a music ensemble, and 11th and 12th-grade students in the Exceptional Learning program. The ensemble members and student mentors will work collaboratively to develop the skills needed to perform memorized shows for events including, but not limited to, home football games, pep rallies, SVVSD Band Night, and other performances in the community. Participation in Unified Percussion Ensemble carries with it the responsibility of attendance at all scheduled rehearsals and performances.

ORCHESTRA COURSES

All classes are one-year long and .5 credit per semester unless otherwise noted.

MU1510A - MU1510B STRING ORCHESTRA

Grades 09, 10, 11, 12

PREREQUISITE: None

FEE: \$20.00

Open to all students, String Orchestra is designed to prepare students with the fundamental techniques to play a string instrument. Previous experience on violin, viola, cello, or bass is strongly suggested but not required. This is a performance oriented experience in which we will perform at school, in the community, and at festivals. This course may be repeated.

MU1515A - MU1515B SYMPHONIC ORCHESTRA

Grades 09, 10, 11, 12

PREREQUISITE: Audition Only

FEE: \$20.00

This group is an advanced string orchestra for students who wish to work on music at a higher level. Emphasis will be placed on high quality performance, music theory, and history. Members of this group are selected by audition only and are expected to work on music outside of class. This is a performance oriented experience in which we will perform at school, in the community, and at festivals. This course may be repeated.

VOCAL MUSIC CLASSES

All classes are one-year long and .5 credit per semester unless otherwise noted.

MU2085A - MU2085B TREBLE CHOIR

Grades 09, 10, 11, 12

PREREQUISITE: None

FEE: \$20.00

Open to all women, all grades, this choir will focus on the choral development of the female voice. Music will cover a broad range of genres and is intended to give students a sampling of music from the Medieval Era to the present. This is intended to be a developing choir and will focus on music literacy, sight-reading, and theory as well as performance. Music literature will be tailored to suit the abilities of the ensemble. This course may be repeated.

MU2060A - MU2060B TENOR/BASS CHOIR

Grades 09, 10, 11, 12

PREREQUISITE: None

FEE: \$20.00

Open to all men, all grades, this choir will focus on the choral development of the male voice. Music will cover a broad range of genres and is intended to give students a sampling of music from the Medieval Era to the present. This is intended to be a developing choir and will thus focus on music literacy, sight-reading, and theory as well as performance. Music literature will be tailored to suit the abilities of the ensemble. This course may be repeated.

MU2020A - MU2020B BEL CANTO – ADVANCED WOMEN'S CHOIR

Grades 09, 10, 11, 12

PREREQUISITE: Audition Only

FEE: \$20.00 and Bel Canto uniform

This advanced ensemble is intended to challenge a select group of women who wish to sing a high level of choral literature. Emphasis will be placed on high quality performance as well as music literacy. Repertoire will cover a broad spectrum of genres throughout musical history. Members of this ensemble will be expected to work on music outside of class time and consistently maintain the highest level of excellence. This choir participates in a national Spring Tour as well as local festivals and competitions. This course may be repeated.

MU2035A - MU2035B CHAMBER SINGERS

Grades 10, 11, 12

PREREQUISITE: Audition only. Concurrent enrollment in Bel Canto or Orpheus is required.

FEE: \$20.00 and Chambers uniform

This group is an advanced ensemble devoted to performance at the **highest level**. The ensemble performs at school functions as well as in the community. Emphasis will be placed on high quality performance as well as music literacy and an advanced level of choral literature. Repertoire will cover a broad spectrum of genres throughout musical history. Chamber Singers is a demanding ensemble that requires concurrent enrollment in either Bel Canto or Orpheus. The course is intended to meet the needs of serious musicians who are seeking to extend their knowledge of choral singing through rigorous rehearsals of challenging choral literature. Members of this ensemble will be expected to maintain the highest level of work ethic during rehearsals in class and at home. Performances must consistently maintain the highest level of excellence. This choir participates in a national Spring Tour as well as local festivals and competitions. This course may be repeated.

MU2070A - MU2070B ORPHEUS - ADVANCED MEN'S CHOIR

Grades 09, 10, 11, 12

PREREQUISITE: Audition Only

FEE: \$20.00 and Orpheus uniform

This advanced ensemble is intended to challenge a select group of men who wish to sing a high level of choral literature. Emphasis will be placed on high quality performance as well as music literacy. Repertoire will cover a broad spectrum of genres throughout musical history. Members of this ensemble will be expected to work on music outside of class time and consistently maintain the highest level of excellence. This choir participates in a national Spring Tour as well as local festivals and competitions. This course may be repeated.

OTHER MUSIC ELECTIVES

MU 1421 BEGINNING STEEL DRUM (1 Semester/.5 Credit)

Grades 09, 10, 11, 12

PREREQUISITE: Ability to read music

FEE: \$20.00 and performance attire

A Steel Drum is an instrument made from a 55-gallon oil barrel that has been pounded to create a series of between 3 and 25 notes. The resulting sound is unique and beautiful. This class will teach students proper steel drum technique and style as well as a history and origins of this instrument from Trinidad. Students will be expected to participate in a few evening concerts during the semester. Students should know how to read music before joining Steel Drum Class. This course may be repeated for credit.

MU1411A - MU1411B MARIACHI Band (1 Year/1 Credit)

Grades 09, 10, 11, 12

PREREQUISITE: None, but music experience is strongly encouraged

FEE: \$20.00

This course is designed for students who want to learn to play an instrument used in mariachi. Little or no prior experience is required for this course. Instruments taught in this class include guitar, vihuela, and guitarron. Trumpet, violin, and vocal students that are beginners are encouraged to enroll in an orchestra, band or choir class to learn the basic music fundamentals. Basic music fundamentals include music

reading, rhythm, and technique development needed for each instrument. Students are eligible to participate in some campus concert venues. Music of all mariachi genres is explored.

MU2201 GUITAR 1 (1 Semester/.5 Credit)

Grades 09, 10, 11, 12

PREREQUISITE: None

FEE: \$20.00

Have you ever wanted to learn guitar or play in a band, but have little to no musical experience? Here's your chance to bring out that inner rock star. In this course, students will concentrate on basic guitar performance techniques. They will learn varying guitar styles including Classical, Blues, and Rock. Students will learn how to read and write musical notation, chord symbols, and tablature as well. Upon completion of this class students will be able to perform three chord Blues and Rock progressions, simple melodies, finger picking techniques, and various chord progressions to popular songs. Students will be expected to participate in an "in-class" recital at the end of the semester. Guitars are provided, or students can use their own (on approval), and electric guitars are welcome (without amplification). Students must own or purchase Essential Elements for Guitar Book 1.

MU2211 BEGINNING PIANO (1 Semester/.5 Credit)

Grades 09, 10, 11, 12

PREREQUISITE: None

FEE: \$20.00

Have you always wanted to learn to play piano? Piano class will teach you the skills on piano to impress your friends and entertain your family. The course will cover basic music theory, and notation but the emphasis will be on piano performance and technique. Students will study and perform music of various styles including classical, jazz, and popular music.

MU2021 MUSIC TECH (1 Semester/.5 Credit)

Grades 09, 10, 11, 12

Prerequisite: NONE

FEE: \$20.00

In this course, students will develop the skills necessary to create original music, collaborate with others, remix songs, and publish their work, using Apple Garageband as the primary Digital Audio Workstation platform. Topics include principles of song structure/arrangement, beat making, MIDI sequencing, and essential mixing techniques. Students will learn to find their own artistic voice, and the core set of skills they need to become a music producer in the future.

MU3010 MUSIC THEORY (and Exploration) (1 Semester/.5 Credit)

Grades 09, 10, 11, 12

Prerequisite: NONE

In this fun and interactive one semester course, you will learn the fundamentals of music theory in order to help better understand the music you love! There is no prerequisite required for this course, and you are not required to have any previous music experience to participate. This course can be especially valuable for

current members in band, orchestra, choir, or mariachi who would like the opportunity to understand the theory behind the music that you perform regularly.

In this course, you will learn how to:

- Read music in all clefs
- Learn about time signatures, note values, and rhythmic patterns
- Learn about scales and key signatures
- Analyze your favorite songs
- Use your music theory knowledge to compose your own music

MU5105A - MU5105B ADVANCED PLACEMENT MUSIC THEORY (1 Year/1 AP Weighted Credit)

Grades 10, 11, 12

PREREQUISITE: Teacher Recommendation

FEE: \$20.00

This Advanced Placement class is for advanced music students, and will be offered concurrently with Music Theory A/B. In-depth instruction will be given in music notation, scales, tonality, keys, chord progressions, transitions, part writing, harmonic analysis, musical form, figured bass, composition, and ear training. This course prepares the student for the AP Music Theory exam in May

THEATER CLASSES

All classes are .5 credit per semester unless otherwise noted.

PA1201 THEATER BASIC

Grades 09, 10, 11, 12

Prerequisite: NONE

This course is designed to give students an opportunity to experience what it is like to put on a production. Students will learn non-verbal and verbal communication skills through voice work, monologue, Improv, and examination of other careers in the theater industry. The course culminates in student-led one act. This course may be taken multiple times, and advanced students may have the opportunity to direct. Active participation is a must.

PA1203 ADVANCED THEATER

Grades 09, 10, 11, 12

PREREQUISITE: Theater Basic

FEE: None

This course is designed for the acting student that wants the challenge of higher level acting assignments. This class will focus on dramatic pieces, college level audition skills, and will culminate in a student-led one act. This class may be repeated.

PA1311 STAGE TECHNICIAN BEGINNER

Grades 09, 10, 11, 12

Prerequisite: NONE

This course is designed to expose students to the more technical aspects of theatrical production, including simple instruction in set design and construction, sound and light theory and design, as well as beginning stage management skills. Students will also explore additional specific theatrical areas as costuming and make-up design and application.

PA2017 UNIFIED THEATER

Grades 09, 10, 11, 12

Prerequisite: NONE

Unified Theater connects students with and without intellectual disabilities. The class is composed of student mentors with previous experience in a theater.

PHYSICAL EDUCATION COURSE SEQUENCE AND OFFERINGS

All classes are .5 credit per semester unless otherwise noted.

9th Grade	Health and one of the following courses: Core PE, Lifetime
10-12 Grades	<p>Courses available to 10th-12th grade students upon the completion of the classes listed above:</p> <p>Yoga, Ironworks, Net & Target, Invasion & Field, Adventure Bound</p> <p>Can be repeated Adventure Bound *Should Not be Repeated</p>

PE1100 HIGH SCHOOL CORE P.E.

Grade 9

PREREQUISITE: None

FEE: None

This class is designed to give students the opportunity to improve personal fitness and participate in a variety of team and dual sports. Students will learn the basic rules and skills for the following possible activities: softball, soccer, basketball, volleyball, flag football, Ultimate Frisbee, golf, table tennis, badminton, pickleball, fitness/conditioning and weight training. Emphasis will be placed on participation and skill development.

PE1105 FITNESS I

Grade 9-12

PREREQUISITE: None

FEE: None

Students will learn to develop high self-esteem, confidence, and competence through a variety of physical activities through use of the weight room machines and free weights. Activities primarily include weight training, resistance training, plyometrics, interval training, and circuit training. Students will learn how to apply the 5 components of fitness, training principles, and human anatomy to personalized workouts.

Students will also learn how to live a happy and healthy lifestyle through exercise, proper nutrition, and self-advocacy.

PE1163 LIFETIME ACTIVITIES

Grades 09, 10, 11, 12

PREREQUISITE: None

FEE: None

Emphasis will be on total body conditioning. This class will incorporate a variety of workout styles and will also have an emphasis on individualized physical activities that can be carried out for a lifetime. Aerobic exercise will include aerobic step, circuit training, kickboxing, interval training, fitness walking, jogging, yoga, and Pilates. Activities include but are not limited to tennis, golf, pickleball, ping pong, jump rope, juggling and backyard games. This course may be taken TWO times per school year.

PE1120 ADVENTURE BOUND

Grades 10, 11, 12

PREREQUISITE: A passing grade in Core PE, Lifetime Activities, or Fitness I

FEE: None

Get ready to challenge yourself, build confidence, and have fun while learning the basics of rock climbing! This class includes a mix of games, activities, and team-building challenges that emphasize problem-solving, cooperation, and trust. Students will start with traversing skills, move through a "Climber Primer" week, and then tackle indoor vertical climbing on the LHS 30-foot climbing wall. A signed Parent Permission form and Student Safety contract are required for participation. This class should only be repeated if students need to improve their mandatory belay skills for top-rope climbing.

PE1125 BELAY ON

Grades 10, 11, 12

PREREQUISITE: A passing grade in Adventure Bound and/or meet prerequisite safety skills and techniques needed for Top Rope Climbing, must be confirmed prior to registration via instructor

FEE: None

Take your climbing skills to the next level in this challenging individualized course designed for students with prior climbing experience. This class focuses on advanced techniques, dynamic movement, route reading, and complex problem-solving on the LHS climbing wall. Team-building, trust exercises, and safety skills continue to be emphasized, with opportunities to refine belay skills and build confidence on more technical and more challenging approaches to the set routes. A signed Parent Permission form and Student Safety contract are required for participation.

PE1131 IRONWORKS I

Grades 10, 11, 12

PREREQUISITE: Core PE, Lifetime Activities, or Fitness I

FEE: None

This class is designed to teach basic weight lifting techniques. It will incorporate free weights and weight machines. General fitness, agility and plyometric workouts are also included.

PE1132 IRONWORKS II

Grades 10, 11, 12

PREREQUISITE: Ironworks I and Teacher/Coach approval

FEE: None

This is an intermediate-level course designed to familiarize students with more advanced weight lifting techniques. It will include emphasis on weightlifting, flexibility, running technique, agility, and speed training. This level course is strenuous; therefore, students must have a strong desire to increase overall body fitness and composition.

PE1145 NET & TARGET

Grades 10, 11, 12

PREREQUISITE: Core PE, Lifetime Activities, or Fitness I

FEE: None

This class will include sports and activities where a net or a target is used. The student will learn the fundamental skills of each sport as well as the rules of the games. This class will include but is not limited to the following activities: Badminton, Tennis, Volleyball, Pickleball, Speedminton, and Disc golf.

PE1140 INVASION & FIELD GAMES

Grades 10, 11, 12

PREREQUISITE: Core PE, Lifetime Activities, or Fitness I

FEE: None

This class will include sports and activities where one team is trying to score on another team by invading their opponent's territory to score points. The student will learn the fundamental skills and basic rules and strategies needed to play the game. This class will include but is not limited to the following activities: Basketball, Soccer, Flag football, Ultimate Frisbee, and Softball.

PE1185 YOGA

Grades 10, 11, 12

PREREQUISITE: Core PE, Lifetime Activities, or Fitness I

FEE: None

This course helps students develop strength, flexibility, balance, and body awareness through a variety of yoga poses (asanas). Each session typically begins with a daily outdoor/indoor warm-up walking (1 mile or more) to promote circulation, mindfulness, and connection with nature/surrounding spaces. Students will build physical fitness by improving muscular endurance, mobility, and core stability, while also enhancing focus and relaxation through breathing techniques (pranayama) and mindfulness practices. The course emphasizes how yoga supports athletic performance, reduces stress, and encourages lifelong wellness. Nutrition and healthy living topics may also be included to help students build balanced habits beyond the classroom.

WORLD LANGUAGES COURSES

All classes are one-year long and .5 credit per semester unless otherwise noted.

WL1101A - WL1101B**FRENCH 1**

Grades 09, 10, 11, 12

PREREQUISITE: None

FEE: None

Bienvenue (Welcome) to the French-speaking world. Areas of study will include communication skills (speaking, listening, reading, and writing). Using these skills, students will be able to interact with others as they learn about each other's families, activities, likes and dislikes, and more. Students will learn to order food in restaurants and make dates with friends. Through film, song, reading, and discussion, students will begin to compare and contrast francophone cultures to our own.

WL1102A - WL1102B**FRENCH 2**

Grades 10, 11, 12

PREREQUISITE: French 1

FEE: None

As the study continues knowledge of the French language and culture will expand and deepen. The everyday language and survival skills will broaden to include the skills needed to visit the homes of others, to ask for and give directions, to ask for and give opinions and much more. Personal communication skills will allow one to have more meaningful conversations with others. The classes will continue to work on many projects, both on and off iPads, that will help showcase emerging language skills.

WL1103A - WL1103B**FRENCH 3**

Grades 11, 12

PREREQUISITE: French 2

FEE: None

After two courses of study, language skills are ready to take off. This class will continue to polish communication skills through sophisticated language use. As with other courses, grammar study will continue and linguistic skills will broaden to include discussions of personal styles, career choices, and opinions, just to name a few topics. Special projects will be assigned that will provide students with chances for real communicative opportunities.

WL1104A - WL1104B**FRENCH 4**

Grade 12

PREREQUISITE: French 3

FEE: None

After three courses of study, students are ready to immerse themselves in the French language. French 4 will be conducted in French whenever possible. Short stories will continue and students will read their first novel. Structures and vocabulary will continue to be taught and practiced. A cultural journey will take students to many of the other Francophone nations. There will be varied and interesting opportunities for students to practice and showcase their language skills. May be offered via AGILE.

WL1151A - WL1151B**SPANISH 1**

Grades 09, 10, 11, 12

PREREQUISITE: None

FEE: None

¡Bienvenidos a la clase de español! Welcome to Spanish class! This course offers an introduction to the language and culture of the Spanish speaking world. We will work to build basic communication skills in a variety of topics by practicing listening, speaking, reading, and writing. Using these skills the student will be able to describe people and things, talk about likes and dislikes, order food, buy clothing, talk about weather, and much more. Students will also learn about culture through readings, videos, music, art, and class discussions.

WL1152A - WL1152B

SPANISH 2

Grades 09, 10, 11, 12

PREREQUISITE: Spanish 1

FEE: None

This course continues to develop the four language learning components of listening, speaking, reading, and writing. Using more complex patterns of communication, students in this class will be able to talk about the past, tell stories, increase vocabulary and explore travel topics. Students will also learn about Hispanic culture through readings, videos, music, art, and class discussions.

WL1153A - WL1153B

SPANISH 3

Grades 10, 11, 12

PREREQUISITE: Spanish 2

FEE: None

In Spanish 3, students can begin to express themselves in more sophisticated ways as well as deepen their understanding of spoken and written Spanish. Although speaking and listening skills are still paramount, there is an increased emphasis on reading and writing. Group projects will get students interacting with each other in meaningful ways to further develop communication skills.

WL1154A - WL1154B

SPANISH 4

Grades 11, 12

PREREQUISITE: Spanish 3 or [Intermediate Low Spanish proficiency](#)

FEE: None

Students at this level of Spanish are well on their way to proficiency! Spanish 4 provides students the opportunity to develop advanced language skills. We will read authentic literature, study art and the history and geography of the Spanish speaking world, and master more complex grammar structures. This class will be conducted in Spanish whenever possible. Emphasis continues to be placed on the development of the student's ability to express him/herself and communicate effectively. Students who successfully complete this level are able to transition smoothly into AP Spanish or any other college-level Spanish course.

WL1156A - WL1156B SPANISH for SPANISH SPEAKERS 1

Grade 9

PREREQUISITE: [Intermediate Mid Spanish proficiency](#)

FEE: None

This course is designed specifically to meet the needs of students who speak Spanish at home or elsewhere and so would not benefit from a Spanish as a foreign language class. A heavy emphasis on reading and writing skills in Spanish along with spelling and grammar lessons. Native/heritage students will develop strategic Spanish reading skills, while investigating the literary genres of expository essay, myths, fables, legends, poetry, short stories, and novels. Students will produce writing in various formats and genres including well-developed paragraphs, literary response items, expository essays, short stories or narratives, while continuing to develop skills in the correct use of grammar, spelling, punctuation, and capitalization. Spanish is the language to be used 100% of the time in class for instruction and interaction between students.

WL1157A - WL1157B SPANISH for SPANISH SPEAKERS 2

Grades 10, 11, 12

PREREQUISITE: Spanish for Spanish Speakers 1

FEE: None

This course is designed for students who already speak, read and write fairly well in Spanish, but still need help with vocabulary, spelling and writing for specific purposes. We will continue the grammar overview which began in Spanish for Spanish Speakers 1. Particular attention will be given throughout the course to spelling, accent marks and expanding students vocabulary beyond their particular region of origin. Students will also read about Hispanics from around the world that have gained fame from their literary achievements. As Spanish is a language spoken on several continents, students will learn to speak and write in standard Spanish. This course will help students prepare to enter into Spanish IV and AP Spanish classes.

WL5210A - WL5210B ADVANCED PLACEMENT SPANISH LANGUAGE and CULTURE (1 AP Weighted Credit)

Grades 11, 12

PREREQUISITE: Spanish 4 or [Intermediate Mid Spanish proficiency](#)

FEE: None

"The AP Spanish Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of products, both tangible (e.g., tools, books) and intangible (e.g., laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions that underlie both practices and products)." - The College Board. This course is taught exclusively in Spanish, and prepares students to take the AP Spanish Language and Culture exam in May. **Students may earn up to 15 college credits upon successful completion of this course through the CLEP and AP test programs (number of credits depends on college/university policies).**

SEAL OF BILITERACY

The St. Vrain Valley School District will recognize students who have studied and attained proficiency or higher in English and at least one other language with the Seal of Biliteracy. This award, given at graduation,

provides students with a competitive advantage in the employment market as well as increased opportunities for higher education.

Requirements: Demonstrate proficiency or higher in English by completing all of the English Language Arts required for graduation with an overall GPA of least 3.0 or higher in the required ELA **courses AND one** of the requirements listed below:

- 470 or higher on SAT EBRW
- 3 or higher on AP English Language Exam
- 3 or higher on AP English Literature Exam
- 4 or higher on IB English Exam
- 100 level or higher on Accuplacer Basic Skills Assessment
- Demonstrate proficiency or higher in a language other than English by achieving one of the following:
 - 3 or higher on World Language AP Exam
 - 4 or higher on World Language IB Exam
 - Intermediate Mid on AAPPL (Arabic, German, Korean, Portuguese, Russian, Thai)
 - If identified language exam is not available, student can submit a body of evidence demonstrating proficiency in each mode of communication for that language
- Successfully completing a four-year high school course of study in the world language and attaining an overall grade point average of at least 3.0 in the course of study

The Seal of Biliteracy provides students with a competitive advantage in the employment market as well as increased opportunities for higher education by:

- Providing evidence of increased readiness for college and careers
- Improving opportunities for college admissions and scholarship
- Increased job opportunities
- Boosting salary potential - Knowing a second language can increase one's pay by 10-15 percent
- Enhancing connections with your language and culture as well as building knowledge and understanding of other cultures

Application Process

1. Students in grades K-8 are encouraged to access world language classes and maintain proficiency in native languages
 2. 8th grade students made aware of Seal of Biliteracy diploma through specific transition activities
 3. 9th and 10th grade students encouraged to participate in world language courses and maintain high GPA in English language arts classes
 4. 11th grade students on track identified by high school counselors and encouraged to apply as seniors
 5. 12th grade students submit request to earn Seal of Biliteracy diploma and District Committee reviews qualifiers
 6. 12th grade students who qualify receive additional Seal of Biliteracy diploma and cords at graduation ceremony
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CAREER ELEVATION AND TECHNOLOGY CENTER

The Career Elevation and Technology Center (CETC) is located at 1200 S. Sunset in Longmont, Colorado and is the Career and Technical Education (CTE) center for the St. Vrain School District and is one of eight CTE centers in the state of Colorado. The CETC offers classes that provide real-world, hands-on experiences in pathways that are high-wage, high-growth, and high-demand. These pathways provide students with opportunities to acquire knowledge and skills linked with specific post-secondary programs leading to a two-year or four-year degree, and provide students with industry recognized certifications giving them a jump start in their careers.

The Career Elevation & Technology Center's Course Description Book, Student Handbook, and Applications, and more information available [on their website](#).



INNOVATION CENTER of ST. VRAIN VALLEY SCHOOLS

The Innovation Center is the next step in public education. We provide opportunities to experiment with extraordinary ideas, technologies, and projects to solve real-world problems. We are a catalyst, incubator, and bridge between education, industry, and our community.

Check out the course offerings below!

[AERONAUTICS](#), [BIOSCIENCE](#), [CYBERSECURITY](#), [ENTREPRENEURSHIP](#), [IC STUDIOS](#), [INFORMATION & COMMUNICATIONS TECHNOLOGY](#), [P-TEACH](#), [ROBOTICS](#), [VIRTUAL & DIGITAL DESIGN](#)

For more, see Innovation Center's Course Description Book, Student Handbook, and Registration Process [on their website](#).

WORK-BASED LEARNING (CTE)

See your counselor for more information.

CTE9950 CTE Capstone

CTE9990 Apprenticeship (only used for students who will be in the apprenticeship program through Careerwise)

CTE9994 CTE Work-study (used for students who come into a program with a paid job outside of school that is aligned with the pathway.)

CTE9999 CTE Internship (only used for students who go through the district process and are placed in an internship)

CTE9992 School-Based Enterprise (to be used for students who participate in WBL opportunities such as a school store, theater production, etc. that is conducted outside of their regular class time.)

AGILE COURSES

AGILE stands for "**Advanced Global Innovative Learning Environments**". **AGILE** courses are offered virtually within the St. Vrain Valley School District. Students enrolled in these courses will report to LHS and login to a state-of-the-art virtual learning system. The course is taught by a St. Vrain teacher at one of our high schools.

**Offered virtually within the St. Vrain Valley School District. Space is limited based on district availability. Availability of course will be confirmed and communicated to students and families in the Spring once registration has been finalized.*

SS5530A/B AP African American Studies (year-long class) (Frederick High)

Grades 10-12 2 semesters/1.0 credit

Social Studies Elective

An interdisciplinary course that draws from a variety of fields—history, literature, the arts, geography, science, and law—to explore the vital contributions and experiences of African Americans. Beginning with the strength and diversity of African kingdoms, and racing a path through enslavement to freedom, AP African American

Studies explores key topics such as the origins of the African diaspora, Reconstruction, the Great Migration, African American art and music, and Afrofuturism. The course provides students with a strong foundation in facts and evidence about African American history and culture, offering an immersive survey course that is not currently available in most American high schools. AP African American Studies develops students' skills in disciplinary knowledge, source analysis and argumentation—valuable skills that prepare them for any college and career.

A5310A & 5310B AP Art History (year-long class) (St Vrain Launch Ed)

Grades 10-12 2 semesters/1.0 credit

Fine Art Elective

Estimated homework: Up to 45 minutes per class

The AP Art History course is equivalent to a two-semester college survey course exploring the nature of art, art making, and responses to art. By investigating the specific course content of 250 works of art characterized by diverse artistic traditions from prehistory to the present, students develop an in-depth, holistic understanding of the history of art from a global perspective. Students become active participants in the global art world, engaging with its forms and content. They experience research, discuss, read, and write about art, artists, art making, responses to, and interpretations of art. While you will earn a fine art elective credit for this class, this is an Art History class. **This is not a traditional art class; the ability to draw/paint is not a requirement to be successful.**

SS5520A & 5520B AP European History (year-long class) (Erie High School)

Grade 12 2 semesters/1.0 credit

Estimated homework expectations: 2-3 hours per week

This course covers European History from 1450, the High Middle Ages and the Renaissance, to contemporary events. Using debates, trials, investigative reports and other learning approaches, students examine people and issues (intellectual, artistic, political, social and economic) which shape our world today. Emphasis is on preparation for the AP exam.

WL1104A & 1104B French 4A/4B (year-long class)

Grades 10-12 2 semesters/1.0 credit

Prerequisite: French 3A and 3B

This course continues the development of the student's acquired abilities from French 1, 2, and 3, especially in listening comprehension and conversational skills in French. Students will continue to work on the five standards (Communication, Cultures, Connections, Comparisons, and Communities) through daily practice with other students, the teacher and internet activities. Television and multimedia will be used to enhance student learning and to encourage more engagement with the language and culture.

The students will read short prose stories and poetry written by French-speaking authors. There will be more use of French-speaking music for listening comprehension and translation practice. The goal is to use the target language 90% of the time, helping the student achieve fluency, which is the goal of the course.

WL5100A & 5100B AP French A/B (year-long course)

Grades 11-12 2 semesters/1.0 credit

Prerequisite: French 4A and 4B or teacher recommendation

AP Exam Fee required

AP French Language and Culture is equivalent to an intermediate-level college course in French. Students cultivate their understanding of the French language and culture by applying interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and community, personal and public identity, beauty and aesthetics, science and technology, contemporary life, and global challenges.

PE9910 Independent Study PE (LaunchEd)

Prerequisite: Fitness Lifestyle Design/Fitness AND General Core PE OR the student is an exceptionally gifted athlete who is competing at the regional, state, or national competition level within the school year in an individual/team sport.

Actively Guided Independent Learning Experience (AGILE) in Physical Education is designed to allow students the opportunity to explore, develop and apply principles and concepts of health and skill-related fitness to enhance and improve overall physical literacy while participating in self selected enjoyable lifetime activities. Students will complete a web based portfolio of activities and assignments, document individual and personal fitness needs, establish goals and prepare personalized fitness plans. Students will also be required to record and keep performance records in an activity/fitness log. Students may also be asked to complete focus-session reflection papers, on the physical activities or sports they engaged in throughout the semester. Student/teacher conferences will be planned on a flexible, or as necessary, basis designed to meet each student's schedule.

CTE9090 Introduction to Law (CETC)**CTE9091 Introduction to Criminal Justice** (CETC)**CS5110 A/B AP Computer Science Principles** (Niwot High School)

Grade

9-12, Full Year, Weighted 5.0, Practical Arts Credit

Prerequisite: Intro to Programming or two years of middle school programming

AP Exam: AP Exam Fees apply

Description: Computer science is everywhere, from our smartphones and video games to music, medicine, and much more. AP Computer Science Principles (AP CSP) can help you understand how computing and technology influence the world around you. Learn how to creatively address real-world issues while using the same tools and processes that artists, writers, computer scientists, and engineers use to bring ideas to life. This intermediate class is designed for students already familiar with basic programming. The course covers the fundamentals of computing, including problem-solving, working with data, understanding the Internet, cybersecurity, and programming. Broadening your understanding of computer science for use in a diversity of majors and careers using Javascript/HTML and CSS.

CS5010 A/B AP Computer Science A (Silver Creek High School & Niwot High)

Grade 10-12, Full Year, Weighted 5.0, Practical Arts Credit

Prerequisite: Students should have 2 years of experience coding and a solid understanding of object-oriented programming

AP Exam: AP Exam Fees apply

Description: The goals of this course are comparable to a first-year college course in Computer Science. It emphasizes hands-on-programming in Java to teach students rigorous object-oriented programming and program development and to prepare students to take the College Board AP Computer Science An examination. Systematic analysis of large-scale computer programs, as well as troubleshooting, problem-solving, and algorithm development skills are included in this course to help prepare students for both college/university programming and/or computer-related careers. Students will be evaluated through programs they create, along with regular practice tests and quizzes.

MA5110A & 5110B AP Calculus BC (year long class) (Erie High School)

Grades 11-12 2 semesters/1.0 credit

Prerequisite: Algebra 1, Geometry/Honors Geometry, Algebra 2/Honors Algebra 2, Honors Pre-Calc/Trig. or Pre-Calc/Trig, AP Calculus AB with teacher recommendation

AP Fee Required. *Suggested Calculator: Graphing Calculator (TI-83 or TI-84)*

Estimated homework time of one hour for every one hour of class time plus additional time for AP preparation

AP Calculus BC is designed for students intending to study mathematics, engineering, or the hard sciences in college. The course includes all the topics of AP Calculus AB plus series (power, Taylor, Maclaurin), convergence testing, partial fractions, improper integrals, differentiation and integration of parametric and vector relations. Students will be expected to complete all daily assignments and perform satisfactorily on examinations. Emphasis is on preparation for the AP Exam.

CTE9450 Education Exploration (Mead High School)

0.5 Credit

PREREQUISITE: None

FEE: None

Education Exploration is a semester-long course designed to provide students with an overview of professions within the field of education. Students will explore the many varied careers in education including teacher, administrator, counselor, and district personnel to name a few. Guest speakers will enhance the understanding of classroom planning, licensure requirements, and career opportunities within school systems. This course includes a minimum of 15 extended learning hours, which may occur outside of class time. This course is an ideal segway into the district's [P-Teach program](#), where prospective educators can earn college credit.

PS1405 AIMS ART 1110 Art Appreciation (Frederick High School)

Grades: 11, 12

Prerequisites: None, Fine Arts Credit

Fee: None

Introduces the cultural significance of the visual arts, including media, processes, techniques, traditions, and terminology.

CU INTE 2000 Digital Teaching and Learning: PS3480*** Innovation Center)**Grades:** 10, 11, 12**Prerequisites:** None , Weighted 5.0, Practical Arts Credit**Fee:** None**Schedule:** Offered fall semester of odd years (Fall 2023, Fall 2025, Fall 2027, etc.)

Description: *Are you interested in evaluating the trustworthiness of different forms of media and creating digital content of your own?* In this course, you will learn to effectively use a variety of digital tools and media for your own learning, designing lessons for your students, and sharing content with a professional learning network. If you are interested in any STEM-related field, this class will bolster your teaching skills in this area. This is a survey of technology for: (1) your own learning, informally and in classes; (2) your students' learning when you become a teacher; and (3) sharing with peers and colleagues. Use tools to address problems of equity, access, and learning needs.

*****Concurrent Enrollment:** CU Denver // 3 college credits**CTE 80120: Intro to Cybersecurity** (Innovation Center)**Grades:** 9, 10, 11, 12**Prerequisites:** None

Description: *Step into an exhilarating journey of cybersecurity like never before!* This dynamic course is your ticket to mastering the art of shielding yourself and businesses from digital threats. From unraveling the mysteries of encryption to deciphering hacker tactics in Types of Attacks, you'll explore Citizen Security, Networking, Cyber Defense, Ethics and Law, and Risk Management in an engaging and hands-on way. Get ready to wield industry tools, unlock the secrets of the digital realm, and emerge as a skilled digital defender. This course isn't just about learning—it's about becoming the cyber-hero the world needs!

CTE80125: Python in Cybersecurity (Innovation Center)**Grades:** 9, 10, 11, 12**Prerequisites:** Coding knowledge preferred but not required

Description: *Get ready for an exhilarating coding adventure designed just for you!* In the first half, we'll unlock the wonders of Python—your gateway to making computers do incredible things. You'll conquer data types, variables, conditional statements, looping, functions, text files, and more. But here's where it gets seriously awesome—in the second half, we'll take your Python skills to the next level and dive headfirst into Cybersecurity magic. Think password cracking, automating tasks, and more. At the end of this course, students will have the opportunity to take the [PCEP - Certified Entry Level Python Programming Certification](#).

*****Concurrent Enrollment:** Aims CC // [CSC 1019 Introduction to Programming](#) // 3 college credits**** Industry Certificate Available ******CTE83130: Cloud Computing Fundamentals** (Innovation Center)**Grades:** 9, 10, 11, 12**Prerequisites:** None

Description: What is "the cloud"? What happens when you use "the cloud"? Did you know that you are using the cloud when you watch your favorite Netflix show, scroll through your Instagram feed, or use Google?

This course will open your eyes to *the foundations of the future*! Leveraging coursework by Amazon Web Services (AWS) Academy, students will learn about the cutting edge of technology infrastructure. Students will explore:

- The core concepts of cloud computing including services, security, architecture, and more
- The business case for cloud computing
- Emerging technology use cases enabled by cloud
- How cloud computing has evolved

Even though this course does not require any prior cloud computing or programming experience, by the end of the semester, you will have created your own AWS Academy Cloud account and gained hands-on experience setting up a cloud service. This course prepares you to take the [AWS Certified Cloud Practitioner exam](#) at the end of the semester. This will help you gain a competitive advantage in this high-demand industry and can lead to opportunities for higher-level industry certifications.

**** Industry Certificate Available ****

WORK-BASED LEARNING

Course Description: Internships are on or off-campus work-based learning activities designed to provide students with opportunities in real-world environments for exposure to the requirements of a particular occupation or industry. Students will learn about the work environment and the expectations for success in a career pathway. Such work experiences are not expected to provide formal training for occupational skills, although some skills may be learned. Internships are completed under the guidance of an industry supervisor and school district personnel, who, in combination with the student, will create a framework for learning and reflection. Internships may be paid or unpaid. For every 60 hours of internship work, students will earn a .5 credit.

Course Names in Infinite Campus
WBL 1100-CTE Internship-Adv Mfg
WBL 1110-CTE Internship-Ag Science
WBL 1120-CTE Internship-Auto Tech
WBL 1130-CTE Internship-Health Sciences
WBL 1140-CTE Internship-Media Tech
WBL 1150-CTE Internship-Culinary Arts
WBL 1160-CTE Internship-Welding Tech
WBL 1170-CTE Internship-Pre-Law

WBL 2100-CTE Internship-Aeronautics
WBL 2110-CTE Internship-Biosciences
WBL 2120-CTE Internship-VR Design
WBL 2130-CTE Internship-Cybersecurity
WBL 2140-CTE Internship-Entrepreneur
WBL 2150-CTE Internship-Video Arts
WBL 2160-CTE Internship-Artif. Intel
WBL 2170-CTE Internship-Robotics
WBL 2180-CTE Internship-Music Innov
WBL 2300- CTE Internship-PTEACH
WBL 3100-CTE Internship-Info Technology
WBL 3110-CTE Internship - Business

Certification Opportunities at LHS and SVVSD

Engineering, Design, and Technology at Longmont High

SolidWorks:

Alignment with Industry Standards and Workforce Demands

SolidWorks is a leading 3D computer-aided design (CAD) software used in aerospace, automotive, manufacturing, and product design industries.

Why it matters: Builds in-demand 3D modeling skills and enhances employability.

Adobe Certified Professional

Certification: Visual Design Using Photoshop

Focus: Develop industry-standard visual communication and digital design skills.

Information Technology & Cloud Computing

Amazon Web Services (AWS):

Program: Opportunity Climb through the Innovation Center

Learn about “the cloud.”

- CTE7110 – AWS Certified Cloud Practitioner
 - CTE7113 – AWS Certified Solutions Architect – Associate
 - CTE7115 – AWS Machine Learning – Specialty
-

Cisco Networking & Cybersecurity

Program: Opportunity Climb through the Innovation Center

Learn networking, cybersecurity, and IT infrastructure.

- CTE7330 – Cisco Certified Support Technician (CCST) – Networking
 - CTE7440 – Cisco Certified Support Technician (CCST) – Cybersecurity
 - CTE7333 – Cisco Certified Network Associate (CCNA)
 - CTE7443 – Cisco CyberOps Admin
 - CTE7335 – Cisco Certified Network Professional (CCNP)
-

Salesforce (Customer Relationship Management)

Program: Opportunity Climb through the Innovation Center

Begin your IT journey in the cloud.

- CTE7220 – Salesforce Associate
 - CTE7223 – Salesforce Certified Administrator
 - CTE7225 – Salesforce Certified Designer
-

Python Programming

through the Innovation Center

Build a foundation in programming.

- *Python Essentials 1*
-

Microsoft Office Associate (MOS)

through the Innovation Center

Master the Microsoft Office suite – earn certification after completing any 3:

- MOS Word Associate (MO-110)
 - MOS Excel Associate (MO-210)
 - MOS PowerPoint Associate (MO-310)
 - MOS Outlook Associate (MO-410)
-

Career & Technical Education (CTE) Pathways at [CETC](#)

Automotive Technology

- ASE (A1–A8, G1)
 - MACS EPA 609 Refrigerant Handling
 - Toyota TECS Elite Maintenance Technician
 - Ford ACE Certifications
 - SP2 Automotive Service Safety
 - Snap-on Diagnostics and DVOM
-

Health Sciences

- Certified Nursing Assistant (CNA)

- Emergency Medical Technician (EMT)
 - ACE Personal Trainer
 - American Heart Association (AHA) BLS CPR & AED
-

Welding and Fabrication Technology

- Industry-Recognized Welding Certifications
-

ProStart & Culinary Arts

- ServSafe Food Manager Certification
-

Agricultural Sciences

- Agricultural industry-aligned certifications (varies by program)
-

Pathways at the Innovation Center

Aeronautics & Technology

- **UAS Pilot Certification** – FAA-aligned certification for drone operations
 - **FAA Fundamentals of Instructing** – For future aviation educators
 - **FAA Advanced Ground Instructor Certification** – Advanced aviation teaching credential
 - **Geographic Information Systems (GIS)** – Offered through the Bioscience program
-

Computer-Aided Design (CAD)

- **AutoCAD Certification** – Earn certification through AutoCAD tutorials
-

Video Arts

- **TriCaster Operator Certification** – For students in live video production
-

Biosciences

- **BACE Certification** – *Biotechnology Assistant Credentialing Exam* (Biotech industry credential)
 - **Geographic Information System (GIS) Certificate** – In partnership with Colorado River Watch
-

Cybersecurity

- Certified Entry-Level Python Programming (PCEP)
 - Linux Essentials
 - Cisco Certified Support Technician (CCST) – Cybersecurity
 - Cisco CyberOps Associate
 - Cisco Certified Network Associate (CCNA)
 - Cisco Certified Network Professional (CCNP)
-