Longmont High School

2019 - 2020 Course Offerings

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

Tradition, Pride, Excellence

Longmont High School
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lhs.svvsd.org
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Academic Planning

This registration guide has been compiled for you and your parents to use in planning your academic program at Longmont High School. It is important to formulate and periodically review your educational goals with your parents 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 pre-requisites to insure accurate placement in your classes.

3. Provide yourself adequate time to carefully consider and plan your course selections. Schedule changes will not be made to accommodate jobs, teacher preferences, transportation problems, or personal preferences, but only for legitimate educational reasons, i.e., improper pre-requisites, improper level placement, failure of a course. If you are considering a schedule change, you must have the course listed on your course request list in Infinite Campus.

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 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.

- Freshman and Sophomore students will be enrolled in at least 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.

- School Board policy also stipulates that at least 10 credits must be earned in the junior and senior years.

- 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, he/she 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:

Students need to plan for educational opportunities after graduation from Longmont High School. To be successful and maximize opportunities at colleges and universities, students need to take courses that will help them to get into the college or university of their choice and prepare them for success once accepted. A rigorous course of study should include Honors and AP courses. No matter which colleges and universities you eventually apply to, you will want to do everything you can to prepare yourself for the challenges ahead.

Take as challenging an academic schedule as you are comfortable with. Consider honors classes, advanced placement, and precollege programs. Always keep in mind the admission standards and requirements colleges have, and remember that these standards can change.

Explore colleges and pay particular attention to each school's:
- Academic Reputation
- Programs of Study
- Unique Academic Programs
- Technology and Facilities
- Scholarship Opportunities
- Student Clubs and Activities
- Arts and Culture
- Athletics and Sports
- Career Planning and Internship Programs
- Housing Options
- Campus Community and Environment

Talk to your parents, 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.

Begin to plan for standardized tests, such as the SAT and ACT. They are required at most colleges. Take the Preliminary Scholastic Assessment Test (PSAT) as a sophomore and talk to your guidance counselor to determine when best to take the SAT and/or ACT.

You should 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 Family Connection on the LHS website (www.lhs.svvsd.org).

- Know the graduation requirements. Are you meeting these in your planning?

- If you are an athlete, know the eligibility rules adopted by the Colorado High School Activities Association.

- 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.
Infinite Campus Information

Each parent and student should be registered for Infinite Campus (St. Vrain Valley’s Student Information System). Infinite Campus can be accessed by parents and students to see grades, attendance, transcripts, schedules, fees and teacher emails. To register for Infinite Campus, parents and students can contact the Counseling Office at Longmont High School. To access Infinite Campus, log on to http://www.svvsd.org, and then click on the Infinite Campus icon. You will need to know your username and password to login. The username and password will be given to you when you register.

Student Obligations/Fines/Fees

Students are reminded that all books must be returned and fines and fees paid prior to the end of the school year. Upon graduation, all obligations must be paid in full and all books and materials returned. Any optional fee not waived or not paid will exclude a student from participating in the graduation ceremony. Students requiring financial assistance and/or who are eligible for free or reduced lunch (under federal guidelines) can request a waiver or scholarship through school administration. This must be requested each year of eligibility and the year the fees are acquired.

How to Read a Course Description in this Booklet:

Course Number and Name  Grade Level  Length of course  Courses or criteria that must be met before taking this course  Amount of credit  Course Description

MA120A–MA120  ALGEBRA 2  (10, 11, 12)  1 year  PREREQUISITE: Teacher Recommendation and either Geometry or Honors Geometry  FEE: None

This course, a continuation of the Algebra and Geometry course sequence, includes an in depth study of the following topics: solutions of equations and inequalities, systems of equations, complex numbers, functions and relations including linear, quadratic and polynomial, exponential, logarithmic and rational. As time permits, the course may cover probability, statistics and matrices.
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, he/she 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

Valedictorian and Salutatorian

The Valedictorian is the student with the highest rank in the graduating class. The Salutatorian is the second highest rank in the graduating class. The rank-in-class is determined using all grades and weight adjustments. (Modified resource grades are not considered in determining valedictorian/salutatorian status.) A Valedictorian/Salutatorian will be honored at the graduation ceremony.

The following is a list of criteria that must be met in an effort to determine Valedictorian/Salutatorian at Longmont High School:

1. Twelve or more credits must be completed at Longmont High School.

2. A minimum of 28 credits must be completed to qualify for Valedictorian/Salutatorian.

3. Not more than two credits of passing “P” grades may be used for GPA calculation.

4. Of the two credits from #3 above, not more than 0.5 credits may be from a core subject (English, Math, Science, Social Studies or World Language). This consideration would be due to extenuating health circumstances.

5. Students using non-accredited transfer credits toward graduation requirements will not be considered for first or second rank-in-class or Valedictorian/Salutatorian.

Advanced Placement Diploma Requirements

1. Students must take five year-long AP courses (or the equivalent) in four subject areas. The subject areas are Art, Music, Computer Science, Mathematics, Science, Social Studies, Language Arts, and World Language.

2. Students must complete these five AP courses with no grade lower than a B.

3. Students must take the AP test in each AP course that counts as a subject area requirement.

4. Students must submit an application for the Longmont High School AP Diploma in the year in which they intend to graduate. Applications will be available in the Counseling Office mid-March and must be returned by the last school day in April.
Academic Honors Top 5%

The following criteria are used to determine the top 5% of the graduating class at Longmont High School:

1. Student 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 Language

2. Student 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.

Academic Lettering Policy

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. Concurrent Enrollment is not intended to duplicate opportunities that are available through course work offered at LHS or CDC. 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 Language 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 - Math (11th and 12th grade students - by the recommendation of a previous math teacher only): Peer tutors are recommended by a previous math teacher to support and tutor students in Algebra 1, Geometry, Intermediate Algebra, and Algebra 2. 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 standard/honors class in the 6th through the 20th school day of the semester, or an AP-level class after the 16th through the 20th school day, will be issued a grade of WP (withdraw passing) or WF (withdraw failing) in accordance with their current course grade, which will be recorded on the student’s permanent transcript. This grade does not impact the student’s cumulative grade point average (GPA). The WF or WP will be issued for both semesters for a yearlong course.

• Students who drop any class after the 10th school day of the fall semester will receive a grade of "F," regardless of the quality of the student's work. This grade will be recorded on the student’s permanent transcript and will be averaged into the student's cumulative grade point average. The grade of “F” will be issued for the first semester, and WF for the second semester for a yearlong course dropped in the first semester.

• Students who drop a yearlong course at the completion of the 1st semester, or at any time during the 2nd semester, will receive the grade of "F" for the second term.
A student’s eligibility is based both on his/her 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 he/she 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 his/her 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](http://www.eligibilitycenter.org)
Academic Counseling Information

Guidance and counseling services are provided for the purpose of assisting students with their educational, vocational, personal-social adjustments, and progress. This service is an integral part of the total school program. Specific areas addressed are crisis intervention, counseling (helping students consider alternatives, make decisions, and solve problems), and guidance activities such as test interpretation, scheduling, orientation, college and career information. Examples of situations where a counselor might be involved with students include:

1. When a student has important decisions to make and needs to know about alternatives and possible consequences.
2. When a student wants help in solving a problem with a teacher or a parent.
3. When a student wants assistance finding out about his/her standing in a class.
4. When a student would like to know more about careers.
5. When a student is concerned about drugs, alcohol, and related issues.
6. When a student thinks he/she may need help or coordination by outside agencies, such as Social Services.
7. When a student would like to be in a career workshop or counseling group.
8. When a student’s parents want to be constructively involved (having a conference with a counselor and/or teachers).
9. When a student wants to review his/her records and see how he/she is doing.

Career and Educational Four-Year Planning Calendar

FRESHMAN YEAR

August
Check in on assigned day. Attend Trojan Photo Day. Check for activities and clubs you would be interested in joining.

September
During the first or second semester, students will complete a high school course plan with their counselor.

Sept - June
Discuss with teachers, parents, and counselors concerns about grades, academic achievement, and preparation for post-high school goals. Students are encouraged to take a rigorous course load. Parents are encouraged to attend Back-to-School night and parent-teacher conferences.

February
Read and review course offerings in the Course Description and Registration Guide. Discuss questions and concerns with parents, teachers, and/or counselor. Keep your post-high school goals in mind as you choose courses. Complete registration for your sophomore year.

March
Take PSAT 9 test (state mandated).

May
Review requested sophomore schedule for accuracy and appropriateness if available.
Please make sure you pay all your fees and fines and return all your books.
Academic Counseling Information

SOPHOMORE YEAR

August
Check in on assigned day. Attend Trojan Photo Day.

Sept – June
Continue to self-monitor academic progress, seeking help and support when needed.
Parents are encouraged to attend Back-to-School night and parent-teacher conferences.
Begin exploring post-high school options.
Attend college information night and any college fairs that are held in the Longmont and/or Denver-Metro area.

October
Attend a College Fair Night.

February
Read and review course offerings in the Course Description and Registration Guide. Discuss questions and concerns with parents, teachers and/or counselor. Keep your post-high school goals in mind as you choose courses. Complete registration for junior year.

March
Take PSAT 10 test (state mandated)

May
Review requested junior schedule for accuracy and appropriateness if available.
Please make sure you pay all your fees and fines and return all your books.

JUNIOR YEAR

August
Check in on assigned day. Attend Trojan Photo Day.

Sept – June
Continue to self-monitor academic progress seeking help and support when needed. Parents are encouraged to attend Back-to-School night, parent-teacher conferences, and the Junior Parent College Information Night.
Take an SAT Prep course if appropriate. Continue to explore post-high school options.
Attend college fairs held in the Denver-Metro area during the Fall.
Meet with college admission representatives when they visit Longmont High.

October
Take the PSAT.
Attend the District College Night

February
Read and review course offerings in the Course Description and Registration Guide.
Discuss questions and concerns with parents, teachers and/or counselor. Keep your post-high school goals in mind as you choose courses. Complete registration for senior year.
Register for May and June ACT and SAT tests if needed.

April
Take the SAT test (state mandated) at Longmont High.

May
Take Advanced Placement examinations.
Review requested senior schedule for accuracy and appropriateness if available. Identify people that know you well and could write a letter of recommendation, and complete the student profile for recommendations.
Please make sure you pay all your fees and fines and return all your books

June
Retake the SAT and/or ACT tests.

Summer
Make college visits; interview college admissions representatives, and narrow your list of tentative college choices. Start your college admissions essay.
**Academic Counseling Information**

**SENIOR YEAR**

**August**  
Check in on assigned day. Attend Trojan Photo Day. Begin applying to colleges.

**Sept - June**  
Continue to self-monitor academic progress seeking help and support when needed.  
Students are highly encouraged to take a rigorous course load.  
Research college admission and scholarship opportunities weekly: Family Connection at [lhs.svvsd.org](http://lhs.svvsd.org)

**Oct - June**  
Meet with counselor to begin college application process and to review summary of high school credits.  
Indicate in Family Connection the colleges you are applying to and if you are using the Common Application to complete your application  
Take/retake SAT and/or SAT subject tests, if needed.  
Attend a College Night.  
Meet with college admissions counselors/reps and continue to make campus visits.  
If necessary, request letters of recommendation through Family Connection.  
Request letters of recommendation from your counselor and/or teachers who are familiar with you and your academic potential. You may also ask an employer for a recommendation letter.  
Student profile sheets are located in Family Connection. Complete and make copies. Give one to each person who is writing a recommendation letter for you.

**December**  
Finalize college applications and use Family Connection to send transcripts by Thanksgiving. Scholarship information is available in Family Connection.  
Complete and file financial aid forms and applications (FAFSA, CSS profile, etc.).

**January**  
Submit scholarship applications according to identified deadlines.

**February**  
Local Scholarships are due in late February. Turn these into the Counseling Office.

**March**  
Longmont High School scholarship applications distributed.

**April**  
Longmont High School scholarship applications due.

**May**  
Take Advanced Placement examinations.  
Notify the college of your choice in Family Connection that you will attend in the fall.  
Complete your senior check out. (Please make sure you pay all your fees and fines and return all your books)  
**Final transcript sent to indicated college. Please update Family Connection.**  
GRADUATE!
# Graduation Requirements

## St. Vrain Valley School District

<table>
<thead>
<tr>
<th>Graduation Requirements</th>
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<table>
<thead>
<tr>
<th>Total Credits</th>
<th>24.5 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language Arts</td>
<td>4.0 credits</td>
</tr>
<tr>
<td>Math</td>
<td>3.0 credits</td>
</tr>
<tr>
<td>Science</td>
<td>3.0 credits</td>
</tr>
<tr>
<td>Social Studies</td>
<td>3.0 credits</td>
</tr>
</tbody>
</table>

**Electives:**
- Physical Education: 8.0 credits total
- Practical Arts: 2.0 credits
- Fine Arts: 2.0 credits
- Health: 2.0 credits

## St Vrain Schools Graduation Requirements

(Class of 2021 and beyond)

<table>
<thead>
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<th>24.5 Credits</th>
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</tr>
<tr>
<td>Social Studies</td>
<td>3.0 credits</td>
</tr>
</tbody>
</table>

**Electives:**
- Practical Arts: 7.5 total credits
- Fine Arts: .5 each
- Health: .5 each
- Financial Literacy: .5 each

**Individual Career and Academic Plan (ICAP):**
Graduates will address indicators for self-advocacy, career awareness, post-secondary plans, etc.

**College and Career Readiness:**
Graduates will demonstrate college and career readiness in English and Math on at least one measure including:
- SAT

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## Colorado Commission on Higher Education (CCHE)

### Admission Requirements and Recommendations

<table>
<thead>
<tr>
<th>4.0 Credits</th>
<th>English</th>
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<tbody>
<tr>
<td>4.0 Credits</td>
<td>Math (Algebra 2 or higher level)</td>
</tr>
<tr>
<td>3.0 Credits</td>
<td>Natural Science (2.0 credits must be lab based)</td>
</tr>
<tr>
<td>3.0 Credits</td>
<td>Social Studies (1.0 credit either US or World History)</td>
</tr>
<tr>
<td>2.0 Credits</td>
<td>World language course – must be in the same language</td>
</tr>
<tr>
<td>2.0 Credits</td>
<td>Academic Electives: Business, Computer Science, Art, Music, or Drama. Also acceptable are honors, Advanced Placement (AP).</td>
</tr>
</tbody>
</table>
College Admissions

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 Family Connection, through www.lhs.svvsd.org.

1. **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.

2. **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.

3. **College Admission Tests.** Colleges also request tests such as the American College Test (ACT) and the Scholastic Aptitude Test (SAT). These should be taken in a student’s junior or senior year.

4. **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.

5. **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 in the Counseling Office. Once completed, make copies and give one to each person who is writing a letter of recommendation.

6. **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 ADMISSION 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, Math 4, 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+
The Medical and BioScience Academy (MBSA) of Longmont High School is designed for students interested in careers or post-secondary education rooted in the health sciences.

According to the U.S. Department of Labor, industries surrounding the health sciences (including biotechnology, medical studies, and other related fields) are expected to experience a tremendous amount of growth over the next 10 to 20 years. MBSA students are positioned and equipped to take advantage of this opportunity.

The MBSA program provides rigorous college-preparatory curricula and instruction that prepare students for competitive admissions, post-secondary education programs in medicine, research, and allied health sciences.

All MBSA students are required to enroll in Honors-level or Advanced Placement (AP) math and science classes, ensuring a strong knowledge base. Students are concurrently exposed to courses such as Introduction to Health Care Foundations, Nutrition & Wellness, Anatomy & Physiology, and Forensic Science. MBSA students must maintain a 3.0 grade point average each year to remain eligible for the program.

In addition to rigorous coursework, MBSA seniors apply for and complete a one-semester capstone project through an internship at a health science or bioscience organization. During this internship, students interact with health science professionals, use technology for medical applications, and develop skills needed in the medical and bioscience workplace.

Students interested in the MBSA must apply for and be accepted into the program. Applications are accepted for enrollment each fall from incoming 9th and 10th graders.

### Medical & BioScience Students Will:
- Experience rigorous coursework
- Interact with health science professionals
- Develop real-life skills through internships
- Qualify for competitive four-year college programs
- Apply technology to real-life problems

### Exciting Career Paths:
- Physician
- Veterinarian
- Dentist
- Bioengineer
- Nurse
- Nutritionist
- Physical Therapist
- Pharmacist
- Genetic counselor
Sample Medical & BioScience Pathway:

<table>
<thead>
<tr>
<th>Grade 9</th>
<th>Grade 10</th>
<th>Grade 11</th>
<th>Grade 12</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MBSA Course</strong></td>
<td></td>
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</tr>
<tr>
<td>Intro to Healthcare Foundations</td>
<td>Nutrition &amp; Wellness</td>
<td>Anatomy &amp; Physiology, or Forensic Science</td>
<td>MBSA Senior Internship</td>
</tr>
<tr>
<td><strong>Science</strong></td>
<td></td>
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</tr>
<tr>
<td>Honors Biology</td>
<td>Honors Chemistry</td>
<td>AP Physics 1 and/or AP Biology and/or AP Chemistry</td>
<td>AP Physics 2 and/or AP Biology and/or AP Chemistry</td>
</tr>
<tr>
<td><strong>Math</strong></td>
<td></td>
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</tr>
<tr>
<td>Honors Geometry</td>
<td>Honors Algebra 2</td>
<td>Honors Trig/Pre-Calculus</td>
<td>AP Calculus, and/or AP Statistics</td>
</tr>
<tr>
<td><strong>English</strong></td>
<td></td>
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<tr>
<td>Honors English 9</td>
<td>Honors English 10</td>
<td>CP English 11 or AP Language</td>
<td>CP English 12 or AP Literature</td>
</tr>
<tr>
<td><strong>Social Studies</strong></td>
<td></td>
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<tr>
<td>Honors World History</td>
<td>AP US History</td>
<td>AP US Govt. and AP Comp Govt.</td>
<td>AP European History or AP Psychology</td>
</tr>
<tr>
<td><strong>World Language</strong></td>
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<tr>
<td>French/Spanish/Chinese</td>
<td>French/Spanish/Chinese</td>
<td>French/Spanish/Chinese</td>
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<tr>
<td><strong>Electives</strong></td>
<td></td>
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<tr>
<td></td>
<td>PE, Health, Fine Arts, Practical Arts</td>
<td></td>
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</tr>
</tbody>
</table>

**Career Development Center (Options)**

Exploration of Healthcare, Medical Terminology

Anatomy & Physiology for Healthcare

Dental Assisting, Emergency Response, Sports Medicine, or Nursing Assistant

Dental Assisting, Emergency Response, Sports Medicine, or Nursing Assistant

**MBSA Senior Internship**

Students apply for, and complete this one-semester capstone project through community connections in the health sciences or biotech area and produce a semester project.

**College Credit**

MBSA students can earn college credit through the University of Colorado Denver’s CU Succeed Program by taking one or more designated AP/CU Succeed courses and receive both high school credit through the AP program and college credit from CU Denver. CU Denver credit is posted on a University of Colorado transcript that students can transfer to colleges and universities all over the world.

**Guaranteed College Admissions**

Students who successfully complete the MBSA program are guaranteed admissions to the following universities, if they meet the minimum grade point average and SAT/ACT composite scores.

**Colorado State University-Fort Collins**

**University of Colorado, Denver**
MS230 INTRO TO HEALTH CARE FOUNDATIONS
(09) 1 Semester .5 Credit
PREREQUISITE: Accepted into the Medical and 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.

SC227 NUTRITION AND WELLNESS
(09, 10, 11, 12) 1 Semester .5 Credit
PREREQUISITE: None
FEE: $10.00
The purpose of the course is to develop lifelong, healthy individuals with an understanding and academic knowledge of wellness as a lifestyle, exercise and fitness, nutrition, and consumer products and services. 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.

SC240A - SC240B ANATOMY & PHYSIOLOGY
(11, 12) 1 Year 1 Credit
PREREQUISITE: Biology and Chemistry
FEE: $5.00
This academically rigorous 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 lecture, labs, and activities, 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. All eleven human body systems will be included, as well as the types of tissue and cell chemistry.

SC230 FORENSIC SCIENCE
(11, 12) 1 Semester .5 Credit
PREREQUISITE: Biology and Chemistry or 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 and forensic DNA analysis techniques.
SC270  MEDICAL & BIOSCIENCE ACADEMY INTERNSHIP  
(12)  
1 Semester  .5 Credit  

PREREQUISITE: Application & Interview Process, MBSA Students Only  
FEE: None  
The Medical and BioScience Academy (MBSA) Internship is a multifaceted assignment that serves as a culminating course for qualified MBSA seniors at Longmont High School. During this internship, MBSA students will participate in 40 hours of supervised experience in a local medical or bioscience business or organization and 20 documented hours working on a research project, writing a formal poster, and presenting at a poster session in May. Students will gain hands-on experience as well as observe possible careers in the medical and bioscience field. The internship will be the capstone project to complete four years of education in the Medical and BioScience Academy.
Longmont High School of Business
High School of Business

About High School of Business

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 CU Succeed Gold Program
- Join FBLA (Future Business Leaders of America)

About the Teacher

Jamey DeWitt received her Bachelor’s Degree in Accounting from SUNY Oswego in NY and a Master’s Degree in Education from Le Moyne College in NY.

Ms. DeWitt has taught a variety of high school and college business courses including Math of Finance, Personal Finance, Business Computer Applications, Keyboarding, Intro to Business, Applied Money Management, and Business Law. In addition, she has advised the Mock Trial Team and FBLA Club.
# High School of Business

## Graduation Requirements

<table>
<thead>
<tr>
<th>Grade 9</th>
<th>Grade 10</th>
<th>Grade 11</th>
<th>Grade 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 9</td>
<td>English 10</td>
<td>English 11</td>
<td>English 12</td>
</tr>
<tr>
<td>Math</td>
<td>Math</td>
<td>Math</td>
<td>Math</td>
</tr>
<tr>
<td>Biology</td>
<td>Chemistry</td>
<td>Physics</td>
<td>Science Elective</td>
</tr>
<tr>
<td>World Geography/History</td>
<td>US History</td>
<td>US and CO Government</td>
<td></td>
</tr>
<tr>
<td>Elective/ Health</td>
<td>Elective</td>
<td>Elective</td>
<td>Elective</td>
</tr>
</tbody>
</table>

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

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.

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. Students may choose to participate in the CU Succeed Gold Program and earn 3 semester hours of university credit.
High School of Business

CTE9112       BUSINESS ECONOMICS
(10)           1 Semester         .5 Credit
PREREQUISITE: Principles of Business
FEE: None
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
(11-12)        1 Semester         .5 Credit
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. Students (participating in the High School of Business) may choose to participate in the CU Succeed Gold Program and earn 3 semester hours of university credit.

CTE9114       PRINCIPLES OF FINANCE
(11, 12)       1 Semester         .5 Credit
FEE: None
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.
PRINCIPLES OF MANAGEMENT

CTE 9115
(12)
1 Semester
.5 Credit
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.

BUSINESS STRATEGIES

CTE 9116
(11, 12)
1 Semester
.5 Credit
FEE: None
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.

BUSINESS INTERNSHIP

CTE 9050
(12)
1 Semester
.5 Credit
FEE: None
The High School of Business™ Internship requirement provides students the opportunity to see first-hand how business executives function, interact, and use 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 his/her 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.
Advanced Placement Courses
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 SUCCCEED COURSES

<table>
<thead>
<tr>
<th>LHS Title</th>
<th>College Credit</th>
<th>Duration</th>
<th>Weighted?</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Biology</td>
<td>8-CU Denver</td>
<td>Yearlong</td>
<td>Yes</td>
</tr>
<tr>
<td>AP Calculus AB</td>
<td>4-CU Denver</td>
<td>Yearlong</td>
<td>Yes</td>
</tr>
<tr>
<td>AP Calculus BC</td>
<td>8-CU Denver</td>
<td>Yearlong</td>
<td>Yes</td>
</tr>
<tr>
<td>AP Chemistry</td>
<td>9-CU Denver</td>
<td>Yearlong</td>
<td>Yes</td>
</tr>
<tr>
<td>AP English Language/Comp</td>
<td>6-CU Denver</td>
<td>Yearlong</td>
<td>Yes</td>
</tr>
<tr>
<td>AP English Lit/Comp</td>
<td>6-CU Denver</td>
<td>Yearlong</td>
<td>Yes</td>
</tr>
<tr>
<td>AP Environmental Science</td>
<td>4-CU Denver</td>
<td>Yearlong</td>
<td>Yes</td>
</tr>
<tr>
<td>AP European History</td>
<td>3-CU Denver</td>
<td>Yearlong</td>
<td>Yes</td>
</tr>
<tr>
<td>AP Physics 1</td>
<td>5-CU Denver</td>
<td>Yearlong</td>
<td>Yes</td>
</tr>
<tr>
<td>AP Physics 2</td>
<td>5-CU Denver</td>
<td>Yearlong</td>
<td>Yes</td>
</tr>
<tr>
<td>AP Psychology</td>
<td>6-CU Denver</td>
<td>Yearlong</td>
<td>Yes</td>
</tr>
<tr>
<td>AP US Government</td>
<td>3-CU Denver</td>
<td>Yearlong</td>
<td>Yes</td>
</tr>
<tr>
<td>Honors Pre-Calculus/Trig</td>
<td>6-CU Denver</td>
<td>Yearlong</td>
<td>Yes (Honors)</td>
</tr>
</tbody>
</table>

### ADVANCED PLACEMENT COURSES

**AP Capstone**
- AP Seminar
- AP Research

**English**
- AP English Language & Composition
- AP English Literature & Composition

**Mathematics**
- AP Calculus AB
- AP Calculus BC
- AP Statistics

**Science**
- AP Biology
- AP Chemistry
- AP Environmental Science
- AP Physics 1
- AP Physics 2

**Music**
- AP Music Theory

**Social Studies**
- AP Micro/Macro Economics
- AP European History
- AP Government and Politics: Comparative
- AP Government and Politics: United States
- AP Psychology
- AP United States History
- AP Human Geography

**Computer Science**
- AP Computer Science A
- AP Computer Science Principles

**Visual Arts**
- AP 2D Studio Art

**World Languages**
- AP Spanish Language and Culture
- AP Spanish Literature and Culture
Advanced Placement Courses

Students at LHS can earn special AP Scholar Awards
These are national recognition awards for high school students who have demonstrated outstanding college-level achievement through AP courses and exam grades. These awards are administered by the College Board.

**National AP Scholar:** Students who receive an average score of at least 4 on all AP Exams taken, and scores of 4 or higher on eight or more of these exams.

**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.

**Why Take AP Courses?**

- AP allows high school students to take courses that are challenging, rigorous, and in-depth—exactly the kinds of courses they will face once in college.
- AP prepares students to succeed in college.
- The credits students earn for their AP achievements enable many students to pursue a double major, to study or travel abroad, or to undertake a combined bachelor’s and master’s program.
- Students who participate in AP are ultimately given the responsibility to reason, analyze, and understand for themselves—essential skills to help students succeed in college.

**Advanced Placement (AP) Courses will be weighted as follows:**

A = 5.0
B = 4.0
C = 3.0
D = 2.0
F = 0

Longmont High School participates in the College Board’s National Advanced Placement (AP) program. Many Advanced Placement courses are offered, and upon completion of an AP course, a student may choose to take the AP Examination in May. A student’s score on the examination may grant credit and/or placement in a higher-level course upon entry in a college/university. The cost of the examination is the student’s responsibility. Some scholarships based on need are available.
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.

**Longmont High School Honors Courses**

**English**
- * Integrated Honors English 9
- * Honor English 10

**Science**
- * Honors Biology
- * Honors Chemistry

**Mathematics**
- * Honors Geometry
- * Honors Algebra 2
- * Honors Pre-Calculus w/Trigonometry

**Social Studies**
- * Integrated Honors World Studies
- * Honors U. S. History

**Visual & Performing Arts**
Honors Percussion and Ensemble

* Denotes Honors courses weighted as follows:
- A = 4.5
- B = 3.5
- C=2.5
- D=1.5
- F = 0
Core Courses
# Language Arts Courses

## Language Arts Course Sequence Offerings

### Freshman Year Requirements:
- Honors English 9  
  (Pairs with AP Human Geography)  
- or  
- Integrated English 9  
- or  
- Honors Integrated English 9

### Sophomore Year Requirements:
- English 10  
- or  
- Honors English 10

### Junior Year Requirements:
- English 11  
- or  
- CP English 11  
- or  
- AP English Language and Composition  
- or  
- AP Research

### Senior Year Requirements:
- English 12  
- or  
- CP English 12  
- or  
- AP English Language and Composition  
- or  
- AP English Literature and Composition  
- or  
- AP Research
LA110A - LA110B  
**INTEGRATED ENGLISH 9**  
(09)  
1 Year  
1 Credit  
**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 assignment.

LA113A - LA113B  
**INTEGRATED HONORS ENGLISH 9**  
(09)  
1 Year  
1 Honors Weighted Credit  
**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 integrated 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.

LA120A - LA120B  
**ENGLISH 10**  
(10)  
1 Year  
1 Credit  
**PREREQUISITE:** None  
**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. Students 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.

LA121A - LA121B  
**HONORS ENGLISH 10**  
(10)  
1 Year  
1 Honors Weighted Credit  
**PREREQUISITE:** A grade of B or better in Honors 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 homework are essential parts of this course.
LA130A - LA130B
ENGLISH 11
(11) 1 Year 1 Credit
PREREQUISITE: A grade of B or better in Honors English 10
FEE: None
English 11 presents a grade-level integrated study of American literature, composition, and oral communication. The intent is to combine the study of our American literary heritage with the study of composition so that students are actively engaged in reading, writing, and speaking about the people and ideas that influence our society. Students will develop their ability to read and write about a variety of literary genres. Successful completion of a semester project (research paper or multi-genre project) is required to pass second semester. Students will be expected to display good work habits and consistently complete homework.

LA132A - LA132B
COLLEGE PREPARATORY ENGLISH 11
(11) 1 Year 1 Credit
PREREQUISITE: A grade of B or better in Honors English 10
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. In addition to being taught at a faster pace than regular English 11, this course places a very strong emphasis on literary analysis as direct preparation for Advanced Placement study of English literature and language.

LA 140A - LA140B
ENGLISH 12
(12) 1 Year 1 Credit
PREREQUISITE: None
FEE: None
English 12 comprises an integrated study of reading and writing. To prepare for post-secondary education, students will respond critically and creatively to a variety of literary and information texts. Students will also have multiple opportunities to meet the research standard, a requirement for passing the course. Students will display good work habits by consistently completing all in-school and homework assignments.

LA141A – LA141B
COLLEGE PREPARATORY ENGLISH 12
(12) 1 Year 1 Credit
PREREQUISITE: A grade of B or better in CP 11
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.
LA207  CREATIVE WRITING  1 Semester  .5 Credit
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.

LA217  MYSTERY LITERATURE  1 Semester  .5 Credit
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.

LA500A - LA500B  AP ENGLISH LANGUAGE AND COMPOSITION  1 Year  1 AP Weighted Credit
PREREQUISITE: A grade of B or better in Honors English 10 or CP English 11
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 exam 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.

LA510A - LA510B  AP ENGLISH LITERATURE AND COMPOSITION  1 Year  1 AP Weighted Credit
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).
Language Arts Courses

MS510A-MS510B  ADVANCED PLACEMENT RESEARCH
(11, 12)  1 Year  1 AP Weighted Credit

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 approximately 4,000-5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.
Mission: Every student will have an intensive mathematics course curriculum to build a strong foundation that enables success in post-secondary education mathematics.

Mathematics Course Sequence Offerings

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 on page 15.
Mathematics Courses

MA110A - MA110B  ALGEBRA 1
(09, 10, 11)  1 Year  1 Credit
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.

MA113A-MA113B  ACCELERATED ALGEBRA 1
(09, 10)  1 Year  1 Credit
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, exponential modeling, quadratic modeling and inverse relations. Accelerated Algebra 1 is intended for students who took Algebra 1 in middle school and need further concept reinforcement.

MA115A - MA115B  GEOMETRY
(09, 10, 11)  1 Year  1 Credit
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.

MA116A - MA116B  HONORS GEOMETRY
(09, 10)  1 Year  1 Honors Weighted Credit
PREREQUISITE: Accelerated Algebra 1
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, advanced properties of triangles and quadrilaterals, the Law of Sines and the Law of Cosines, and area and volume relationships among similar figures.
Mathematics Courses

MA118A-MA118B  INTERMEDIATE ALGEBRA  
(11, 12)  1 Year  1 Credit  
PREREQUISITE: Geometry  
FEE: None  
This course reinforces linear, exponential, and quadratic functions from Algebra 1 and similarity and right triangle trigonometry from Geometry. Students will be introduced to rational and logarithmic functions, and have the opportunity to study matrices, properties of logarithms, trigonometric functions, financial applications, and probability. These concepts and associated skills are aligned with the Colorado Academic Standards for mathematics, incorporating 21st century skills and postsecondary and workforce readiness competencies.

MA120A - MA120B  ALGEBRA 2  
(9, 10, 11, 12)  1 Year  1 Credit  
PREREQUISITE: Geometry or Honors Geometry  
FEE: None  
Algebra 2 focuses on three critical areas: (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. These concepts and associated skills are aligned with the Colorado Academic Standards for mathematics, incorporating 21st century skills and postsecondary and workforce readiness competencies.

MA121A - MA121B  HONORS ALGEBRA 2  
(9, 10, 11, 12)  1 Year  1 Honors Weighted Credit  
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 probability, complex solutions of polynomial equations, graphing parabolas, the Fundamental Theorem of Algebra and properties of logarithms.

MA170  FINITE MATH  
(11, 12)  1 Semester  .5 Credit  
PREREQUISITE: Algebra 2  
FEE: None  
Finite Math focuses on three critical areas: (1) sequences and series (extended from Algebra 2); (2) operations with matrices and determinants; and (3) operations with vectors. In addition, Finite Math will provide an opportunity to review and extend the skills needed to continue in the college preparatory mathematics sequence including analytic geometry, functions, quadratic equations, rational expressions and probability and statistics. This course is required for students who have completed Algebra 2 and intend to take Honors Pre-Calculus w/Trigonometry. These concepts and associated skills exceed the Colorado Academic Standards for mathematics, incorporating 21st century skills and post-secondary and workforce readiness competencies.
Mathematics Courses

**MA127**  
**TRIGONOMETRY**  
(11, 12)  
1 Semester  
.5 Credit  
**PREREQUISITE:** Finite Math  
**FEE:** None  
Trigonometry focuses on two critical areas: (1) trigonometric functions and (2) applications of trigonometry. These concepts and associated skills exceed the Colorado Academic Standards for mathematics, incorporating 21st century skills and postsecondary and workforce readiness competencies.

**MA149A – MA149B**  
**HONORS PRECALCULUS w/TRIGONOMETRY**  
(9, 10, 11, 12)  
1 Year  
1 Honors Weighted Credit  
**PREREQUISITE:** Honors Algebra 2  
**FEE:** None  
Honors Pre-Calculus with Trigonometry focuses on six critical areas in greater depth: (1) the complex number system; (2) arithmetic with polynomials and rational expressions; (3) operations with functions; (4) conic sections, (5) trigonometric functions; and (6) applications of trigonometry. Students also have the opportunity to study sequences and series, vectors, limits, and derivatives as an introduction to calculus. **Students may choose to participate in the CU Succeed Gold Program and earn 6 semester hours of university credit.**

**MA125A - MA125B**  
**STATISTICS**  
(11, 12)  
1 Year  
1 Weighted Credit  
**PREREQUISITE:** Algebra 2  
**FEE:** None  
Statistics focuses on three critical areas: (1) conditional probability and the rules of probability; (2) using probability to make decisions; and (3) using descriptive statistics and data distributions. These concepts and associated skills exceed the Colorado Academic Standards for mathematics, incorporating 21st century skills and postsecondary and workforce readiness competencies.

**MA520A - MA520B**  
**ADVANCED PLACEMENT STATISTICS**  
(11, 12)  
1 Year  
1 AP Weighted Credit  
**PREREQUISITE:** Algebra 2  
**FEE:** None  
Advanced Placement Statistics acquaints students with the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will frequently work on projects involving the hands-on gathering and analysis of real world data. Ideas and computations presented in this course have immediate links and connections with actual events. Computers and calculators will allow students to focus deeply on the concepts involved in statistics. This course is recommended for students who plan to major in college in the areas of science, mathematics, engineering, psychology, sociology, health science and business. This course prepares students for the Advanced Placement Examination in Statistics.
## Mathematics Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Grade Levels</th>
<th>Duration</th>
<th>AP Weighted Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA500A - MA500B</td>
<td>ADVANCED PLACEMENT CALCULUS AB</td>
<td>(11, 12)</td>
<td>1 Year</td>
<td>1 AP Weighted Credit</td>
</tr>
<tr>
<td></td>
<td><strong>PREREQUISITE:</strong> Pre-calculus</td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td><strong>FEE:</strong> None</td>
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<tr>
<td></td>
<td>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. <strong>Students may choose to participate in the CU Succeed Gold Program and earn 4 semester hours of university credit.</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Grade Levels</th>
<th>Duration</th>
<th>AP Weighted Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA500C</td>
<td>ADVANCED PLACEMENT CALCULUS LAB AB</td>
<td>(11, 12)</td>
<td>1 Semester</td>
<td>.5 AP Weighted Credit</td>
</tr>
<tr>
<td></td>
<td><strong>PREREQUISITE:</strong> Pre-calculus</td>
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<tr>
<td></td>
<td><strong>FEE:</strong> None</td>
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<tr>
<td></td>
<td>Calculus Lab is designed to be taken concurrently with Advanced Placement Calculus AB during 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.</td>
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</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Grade Levels</th>
<th>Duration</th>
<th>AP Weighted Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA510A - MA510B</td>
<td>ADVANCED PLACEMENT CALCULUS BC</td>
<td>(11, 12)</td>
<td>1 Year</td>
<td>1 AP Weighted Credit</td>
</tr>
<tr>
<td></td>
<td><strong>PREREQUISITE:</strong> Pre-calculus</td>
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<td></td>
<td></td>
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<tr>
<td></td>
<td><strong>FEE:</strong> None</td>
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<tr>
<td></td>
<td>This course is designed for highly motivated college bound students. Areas of study in addition to the Calculus AB topics include infinite series, convergence test, Taylor Polynomials, Euler’s Method, logistic growth, L’Hospital’s Rule, and applications of derivatives of planar curves given in parametric form, polar form and vector form, including velocity and acceleration. Anti-derivatives by substitution of variables (including change of limits for definite integrals), improper integrals, trig substitutions, integration by parts and partial fractions are also covered in this course. This course will meet every day first semester, and every other day second semester. <strong>Students may choose to participate in the CU Succeed Gold Program and earn 8 semester hours of university credit.</strong></td>
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</tbody>
</table>
Science Courses

Science Course Sequence Offerings

<table>
<thead>
<tr>
<th>Course</th>
<th>Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>1 Year</td>
</tr>
<tr>
<td>Honors Biology</td>
<td>1 Year</td>
</tr>
</tbody>
</table>

After taking Biology, students in grade 10 should take Chemistry or Honors Chemistry. If AP Environmental Science is taken, students should also take a Chemistry class.

<table>
<thead>
<tr>
<th>Course</th>
<th>Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>1 Year</td>
</tr>
<tr>
<td>Honors Chemistry</td>
<td>1 Year</td>
</tr>
<tr>
<td>Advanced Placement Environmental Science</td>
<td>1 Year</td>
</tr>
</tbody>
</table>

After taking Chemistry, students in grades 11 take Physics.

<table>
<thead>
<tr>
<th>Course</th>
<th>Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics</td>
<td>1 Year</td>
</tr>
<tr>
<td>AP Physics</td>
<td>1 Year</td>
</tr>
</tbody>
</table>

The following Science elective courses can be taken concurrently or once the required science courses have been met. Students need 3 credits of Science to graduate.

<table>
<thead>
<tr>
<th>Course</th>
<th>Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Behavior</td>
<td>1 Semester</td>
</tr>
<tr>
<td></td>
<td>10, 11, 12</td>
</tr>
<tr>
<td>Forensic Science</td>
<td>1 Semester</td>
</tr>
<tr>
<td></td>
<td>11, 12</td>
</tr>
<tr>
<td>Anatomy &amp; Physiology</td>
<td>1 Year</td>
</tr>
<tr>
<td></td>
<td>11, 12</td>
</tr>
</tbody>
</table>

Advanced Placement

CU Succeed college credit may be earned for these courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Placement Biology</td>
<td>1 Year + 1 Semester every day</td>
</tr>
<tr>
<td></td>
<td>11, 12</td>
</tr>
<tr>
<td>Advanced Placement Chemistry</td>
<td>1 Year + 1 Semester every day</td>
</tr>
<tr>
<td></td>
<td>11, 12</td>
</tr>
<tr>
<td>Advanced Placement Environmental Science</td>
<td>1 Year</td>
</tr>
<tr>
<td></td>
<td>10, 11, 12</td>
</tr>
<tr>
<td>Advanced Placement Physics 1</td>
<td>1 Year</td>
</tr>
<tr>
<td></td>
<td>11, 12</td>
</tr>
<tr>
<td>Advanced Placement Physics 2</td>
<td>1 Year</td>
</tr>
<tr>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>
## Science Courses

### SC122A - SC122B  
**BIOLOGY**  
1 Year  
1 Credit  
**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, and human systems. Students will design, conduct, evaluate, and communicate about science through inquiry and investigations. Students will also develop skills in the care and use of the microscope. This laboratory science class will include the dissection of preserved animals.

### SC123A - SC123B  
**HONORS BIOLOGY**  
1 Year  
1 Honors Weighted Credit  
**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, 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. Students will also develop their skills in the care and use of the microscope. This class will include the dissection of preserved animals. Success in Honors biology will require work outside the classroom.

### SC510A - SC510B - SC510C  
**ADVANCED PLACEMENT BIOLOGY**  
1 Year  
1.5 AP Weighted Credit  
**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 rigorous and demanding course, which is the equivalent to a two-semester college introductory biology course. The key concepts and related content that define AP Biology are organized around the four Big Ideas, which encompass the core scientific principles, theories and processes governing living organisms and biological systems. The Big Ideas include evolution, cellular processes, genetics and information transfer, and interactions between biological systems. This laboratory-based course will emphasize science practices, which allow students to combine biology content with inquiry and reasoning skills. Students who successfully complete this course will be prepared for the AP Biology Examination and the study of advanced topics in subsequent college courses. **Students may choose to participate in the CU Succeed Gold Program and earn 8 college semester credits for General Biology I and II.**
Science Courses

SC130A - SC130B  CHEMISTRY
(10)  1 Year  1 Credit
PREREQUISITE: Biology, Algebra 1
FEE: $5.00
This laboratory science course is designed for students who plan to pursue either a 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 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. A simple calculator is required.

SC131A - SC131B  HONORS CHEMISTRY
(10)  1 Year  1 Honors Weighted Credit
PREREQUISITE: 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. A scientific calculator is recommended.

SC520A - SC520B - SC520C  ADVANCED PLACEMENT CHEMISTRY
(11, 12)  1 Year  1.5 AP Weighted Credit
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 Chemistry Advanced Placement Examination. Students may choose to participate in the CU Succeed Gold Program and earn 9 college semester credits for Chemistry.

SC140A - SC140B  PHYSICS
(11, 12)  1 Year  1 Credit
PREREQUISITE: Geometry
FEE: $10.00
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 mechanics, gravity, energy, waves, electricity, and magnetism. 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.
SC532A - SC530B  ADVANCED PLACEMENT PHYSICS 1  
(11, 12)  1 Year  1 AP Weighted Credit  
PREREQUISITE: Honors Chemistry, Algebra 2 (with grade of C or better), concurrent enrollment in Trigonometry/Pre-Calculus or above  
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 (including rotational dynamics and angular momentum), work, energy, power, mechanical waves and sound. It also introduces electric circuits. 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 conjectures 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. This course prepares students for the AP Physics 1 Exam.  
Students may choose to participate in the CU Succeed Gold Program and earn 5 college semester credits for College Physics 1.

SC533A - SC533B  ADVANCED PLACEMENT PHYSICS 2  
(12)  1 Year  1 AP Weighted Credit  
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: fluid statics and dynamics, thermodynamics with kinetic theory, PV diagrams and probability, electrostatics, electrical circuits (continuing and expanding topics from AP Physics 1), magnetic fields, electromagnetism, physical and geometric optics, 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 conjectures 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.

SC225  ANIMAL BEHAVIOR  
(11, 12)  1 Semester  .5 Credit  
REREQUISITE: Biology or Honors Biology, 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 including animal learning and intelligence, adaptations and defenses, finding food, social behavior, mating and parenting. This class will require outside readings including “In the Shadow of Man,” Jane Goodall’s original studies of chimpanzees in the wild. Students will make observations of invertebrate and vertebrate behavior in this laboratory science class through readings, labs, discussions and videos.
Science Courses

SC240A - SC240B  ANATOMY & PHYSIOLOGY  1 Year  1 Credit
PREREQUISITE: Biology and Chemistry  FEE: $5.00
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 lecture, labs, and activities, 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. All eleven human body systems will be included, as well as the types of tissue and cell chemistry.

SC230  FORENSIC SCIENCE  1 Semester  .5 Credit
PREREQUISITE: Biology and Chemistry, 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 and forensic DNA analysis techniques.

SC500A - SC500B  ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE  1 Year  1 AP Weighted Credit
PREREQUISITE: Biology or Honors Biology, Algebra 1  FEE: $10.00
This laboratory science course provides students with the scientific concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. The following themes provide the foundation for this course: Science is a process, energy conversions underlie all ecological processes, the Earth itself is one interconnected system, humans alter natural systems, environmental problems have a cultural and social context, and human survival depends on developing practices that result in sustainable systems. This course prepares students for the Environmental Science Advanced Placement Examination. Students may choose to participate in the CUSucceed Gold Program and earn 4 college semester credits for Environmental Science.
Social Studies Courses

Social Studies Course Sequence Offerings

9th Grade

World Studies: World Geography/History
1 Year

OR

World Studies: Honors World Geography/History
1 Year

OR

AP Human Geography

10th Grade

United States History
1 Year

OR

Honors United States History
1 Year

OR

AP United States History
1 Year
Grades 10, 11, 12

11th Grade

United States and Colorado Government
1 Year

OR

Honors United States and Colorado Government
1 Year

OR

AP US Government and Politics
1 Year
Grades 11, 12

12th Grade

AP Comparative Government
1 Year
Grades 11, 12

Social Studies Electives

Psychology
1 Semester
Grades 11, 12

Philosophy I
1 Semester
Grades 11, 12

AP European History
1 Year
Grades 11, 12

AP Psychology
1 Year
Grades 11, 12

Philosophy II
1 Semester
Grades 11, 12

AP United States History
1 Year
Grades 10, 11, 12

AP United States Government
1 Year, Grades 11, 12

AP Comparative Government
1 Year, Grades 11, 12

AP Micro-Economics
1st Semester (Grades 11, 12)

AND

AP Macro-Economics
2nd Semester (Grades 11, 12)
Social Studies Courses

S110A-SS110B INTEGRATED WORLD GEOGRAPHY/HISTORY
(09) 1 Year 1 Credit

PREREQUISITE: None
FEE: None
This is an integrated course that incorporates the standards for English 9 and World Studies. Class activities explore timeless issues and themes through literature and history. By identifying themes and patterns students will be better able connect the past to the present using English as a vehicle. 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 narrative and analytical essays, presentational projects, Socratic Seminars, and research papers. 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 team 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.

SS111A - SS111B INTERGRATED HONORS WORLD GEOGRAPHY/HISTORY
(09) 1 Year 1 Honors Weighted Credit

PREREQUISITE: Teacher Recommendation
FEE: None
This is an integrated course that incorporates the standards for English 9 and World Studies. It is an accelerated, in-depth study of the world. The focus will be significant events throughout world history incorporating English literature, primary sources, cultural stories and non fiction articles as a base. Students will be required to not only keep current on world affairs, but also to discuss events as they happen. Students will write a minimum of three major papers: Two will be analytical and one research-based. 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.

SS120A - SS120B UNITED STATES HISTORY
(10) 1 Year 1 Credit

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 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.
SS121A - SS121B  
**HONORS UNITED STATES HISTORY**  
(10) 1 Year 1 Honors Weighted Credit  
**PREREQUISITE:** Teacher recommendation  
**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.

SS130A - SS130B  
**UNITED STATES AND COLORADO GOVERNMENT/CIVICS**  
(11) 1 Year 1 Credit  
**PREREQUISITE:** None  
**FEE:** None  
In US Government, instructional time should focus on five critical areas: (1) designing, analyzing and applying a financial plan based on short-and long-term financial goals; (2) analyzing strategic spending, saving, and investment options to achieve the objectives of diversification, liquidity, income, and growth (PFL); (3) researching, formulating positions, and engaging in appropriate civic participation to address local, state, or national issues or policies; and (4) describing purposes, origins, structures and limitations of government and (5) analyzing how public policy – domestic and foreign – is developed at all levels. These concepts and associated skills are aligned with the Colorado Academic Standards for social studies, incorporating 21st century skills and post-secondary and workforce readiness competencies.

SS131A - SS131B  
**HONORS UNITED STATES/COLORADO GOVERNMENT**  
(11) 1 Year 1 Credit  
**PREREQUISITE:** Teacher Recommendation  
**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 that are active in debates, discussions as well as offering reading and writing skills.

SS210  
**PHILOSOPHY I**  
(11, 12) 1 Semester .5 Credit  
**PREREQUISITE:** None  
**FEE:** None  
What is the meaning of life? Interested in the role religion has played in man's history? Troubled by concepts of what is right and wrong? Should we allow people to die when they wish? Do you know if you are a liberal or conservative? What did Descartes mean when he said, "I think, therefore, I am"? Want to explore how other people think about ideas like duty, love, death, courage? This elective course will include these and other philosophical issues. Students will be involved in discussions, writing exercises, and special projects to display what they have learned.
Social Studies Courses

SS215  PHILOSOPHY II – CASE STUDIES IN ETHICS
(11, 12)  1 Semester  .5 Credit
PREREQUISITE:  Philosophy I
FEE:  None
Case studies in Ethics are a continuation of the philosophical journey of a student from the introductory class. It will deal with more advanced concepts and a more in-depth study of the specific areas of ethical philosophy. This course has a couple of main goals: First, to develop your skills at forming your own moral views as rationally and carefully as possible. Second, to introduce you to some important current debates in ethics, and to some of the most historically influential views in ethics.

SS220  PSYCHOLOGY
(11, 12)  1 Semester  .5 Credit
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, States of Consciousness (sleep and dreams), Intelligence, and the Psychological Disorders.

SS510A - SS510B  ADVANCED PLACEMENT UNITED STATES HISTORY
(10, 11, 12)  1 Year  1 AP Weighted Credit
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.

SS525A - SS525B  ADVANCED PLACEMENT PSYCHOLOGY
(11, 12)  1 Year  1 AP Weighted Credit
PREREQUISITE:  None
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. Additionally, students are expected to read material outside of class. This course prepares students to take the Psychology Advanced Placement Examination. Students may choose to participate in the CU Succeed Gold Program and earn 3 semester hours per semester of University credit (6 Total).
SS530 - SS531  ADVANCED PLACEMENT MICRO AND MACRO-ECONOMICS
(11, 12)        1 Year        1 AP Weighted Credit
PREREQUISITE: None
FEE: None
AP Microeconomics and Macroeconomics is similar to a freshman level college course. It 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 student for the Microeconomics and/or Macroeconomics Advanced Placement Examinations.

SS505A –SS505B  ADVANCED PLACEMENT GOVERNMENT AND POLITICS: US
(11, 12)        1 Year        1 AP Weighted Credit
PREREQUISITE: US History
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 primacy 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 vigorous 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 success passage of the
exam. Students may choose to participate in the CU Succeed Gold Program and earn 3 semesterhours of
University credit.

SS500A-SS500B  AP GOVERNMENT AND POLITICS: COMPARATIVE
(11, 12)        1 Year        1 AP Weighted Credit
PREREQUISITE: US Government/AP US Government
FEE: None
Comparative Government is a college-level survey course that provides well-motivated students a
conceptual knowledge of global issues by assessing six different political systems and focusing on the
globalization practices in Industrialized, Emerging and Developing nations. The course illustrates the
variety of political cultures, availability of institutional alternatives, and coinciding factions that both
hinder and help the governmental process. The goal is explains the differences in processes and policy
outcomes and communicates to the students the importance if global political and economic changes.
Students are expected to do at least 1 hour of homework every night as well as reading independently
and motivation themselves to do well on the AP exam. This course is an elective course only and does
not substitute any graduation requirements. This course is a springboard for students looking to enter
Political Science, Public Relations, International Relations, Sociology or other Social Science courses
professionally.
Social Studies Courses

SS520A - SS520B  ADVANCED PLACEMENT EUROPEAN HISTORY
(11, 12)  1 Year  1 AP Weighted Credit
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.

SS535A-SS535B  ADVANCED PLACEMENT HUMAN GEOGRAPHY
(9)  1 Year  1 AP Weighted Credit
PREREQUISITE: Teacher Recommendation
FEE: None
Advanced Placement (AP) Human Geography introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth’s surface. Students learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. This course is a great place to start an AP track within the social studies department and/or a good place to start the AP experience. This course prepares students for the Human Geography Advanced Placement Examination. This course fulfills the social studies requirements for World History/Geography.

SS140  PERSONAL FINANCIAL LITERACY
(10, 11, 12)  1 Semester  .5 Credit
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 graduation requirement beginning with the Class of 2021
GRADUATION REQUIREMENTS FOR ELECTIVE COURSES

FINE ARTS

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

- ART
- MUSIC
- THEATER

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

MISCELLANEOUS
Art Course Sequence Offerings

BEGINNING DRAWING

BEGINNING PAINTING
BEGINNING DIGITAL PHOTOGRAPHY
BEGINNING CERAMICS
BEGINNING SCULPTURE
BEGINNING JEWELRY
COMPUTER GRAPHICS

ADVANCED DRAWING
ADVANCED PAINTING
ADVANCED DIGITAL PHOTOGRAPHY

STUDIO PHOTOGRAPHY

ADVANCED 3D DESIGN

INDEPENDENT STUDY

ADVANCED PLACEMENT
2-D STUDIO ART
(Teacher Recommendation)

VIDEO PRODUCTION

ADVANCED STUDIO ART: DIGITAL MEDIA
Art Courses

A105 BEGINNING CERAMICS
(09, 10, 11, 12) 1 Semester .5 Credit
PREREQUISITE: None
FEE: $30.00
This course will provide an in-depth study of ceramics using earthenware clay. Techniques may include, pinch, coil, slab, wheel throwing and glazing. Students will be encouraged to create original designs while producing useful and/or decorative objects.

A108 COMPUTER GRAPHICS
(09, 10, 11, 12) 1 Semester .5 Credit
PREREQUISITE: None
FEE: $30.00
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.

A110 BEGINNING DRAWING
(09, 10, 11, 12) 1 Semester .5 Credit
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 artist 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.

A112 ADVANCED DRAWING
(10, 11, 12) 1 Semester .5 Credit
PREREQUISITE: Beginning 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.
Art Courses

A114  BEGINNING JEWELRY  
(09, 10, 11, 12)  1 Semester  .5 Credit  
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.

A116  BEGINNING PAINTING  
(09, 10, 11, 12)  1 Semester  .5 Credit  
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.

A118  ADVANCED PAINTING  
(10, 11, 12)  1 Semester  .5 Credit  
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.

A121  STUDIO PHOTOGRAPHY  
(10, 11, 12)  1 Semester  .5 Credit  
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 Light room 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 who 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.
A122 BEGINNING DIGITAL PHOTOGRAPHY
(09, 10, 11, 12) 1 Semester .5 Credit
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.

A123 ADVANCED DIGITAL PHOTOGRAPHY
(10, 11, 12) 1 Semester .5 Credit
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.

A124 BEGINNING SCULPTURE
(09, 10, 11, 12) 1 Semester .5 Credit
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.

A130 VIDEO PRODUCTION
(9, 10, 11, 12) 1 Semester .5 Credit
PREREQUISITE: Teacher Permission
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 announcement, composting projects, music videos and short stories.
A138  ADVANCED STUDIO ART: DIGITAL MEDIA  
(9, 10, 11, 12) 1 Semester .5 Credit
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.

A160  3D DESIGN BEGINNING  
(09, 10, 11, 12) 1 Semester .5 Credit
PREREQUISITE: None
FEE: $30.00
This beginning level class focuses on the elements and principles of design, with a strong introduction to technique in a variety of 3 dimensional media. It delves into the creative process, art history and art criticism, while introducing students to ceramics, sculpture, jewelry, 3-dimensional design and mixed media techniques and materials. Students will be expected to develop and maintain a sketchbook that chronicles their investigation and creative processing in making artwork. This class is designed to prepare students technically and compositionally for more intensive studies in the upper level Ceramics, Sculpture and Jewelry classes.

A162  3D DESIGN ADVANCED  
(10, 11, 12) 1 Semester .5 Credit
PREREQUISITE: 3D Design Beginning, Beginning Jewelry, Ceramics, or Sculpture (A grade of C or better in two beginning 3D classes).
FEE: $30.00
This course is a place for student artists to explore different mediums in the 3D realm. 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 participate in critiques and discussions, complete daily exercises to advance skills, and prepare their art work for showing.
Art Courses

A505A - A505B   ADVANCED PLACEMENT STUDIO ART (2D)
(11, 12)        1 Year        1 AP Weighted Credit

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

FEE: $60.00

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.
Business Elective Courses

* Please see the High School of Business section on pg. 23 for more information on the courses that are specific to that program.

**CTE 9015**  
**BUSINESS COMPUTER APPLICATIONS**  
(09, 10, 11, 12)  
1 Semester  
.5 Credit  
**PREREQUISITE:** None  
**FEE:** None  
This course is designed to prepare students for their education and their careers by exposing each student to formal letter writing, interviewing, Microsoft Office, teamwork, organization, research and general business etiquette. This class teaches students how to be a full participant in the global business world.

**CTE 9105**  
**LEADERSHIP**  
(09)  
1 Semester  
.5 Credit  
**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.

**CTE 9113**  
**PRINCIPLES OF MARKETING**  
(11, 12)  
1 Semester  
.5 Credit  
**PREREQUISITES:** None  
**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.

**CTE 9107**  
**WEALTH MANAGEMENT**  
(09, 10, 11, 12)  
1 Semester  
.5 Credit  
**PREREQUISITE:** None  
**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.
Computer Science Courses

CS103       INTRODUCTION TO PROGRAMMING
             (09, 10, 11, 12)  1 Semester .5 Credit
PREREQUISITE: None
FEE: None
Introduction to Programming introduces students to the basics of programming through a series of Javascript and python programming projects that encourage creativity and experimentation. Students create a diverse portfolio of projects as they learn commands and functions, values and variables, Graphical User Interface, modular and object-oriented programming, and events and event-driven processes including iterative and incremental modals.

CS104       INTRODUCTION TO COMPUTING
             (09, 10, 11, 12)  1 Semester .5 Credit
PREREQUISITE: Currently taking or have completed Algebra 1 or Accelerated Algebra 1; Preferably Introduction to Programming
FEE: None
This course will introduce students to App Development, Operating Systems, Software Development and Programming (in Javascript, Java, and Python languages). Students will be engaged in Computational Thinking, Design Systems, and Problem-Solving practices to take advantage of the processing power of computing devices.

TE107       WEB DESIGN
             (09, 10, 11, 12)  1 Semester .5 credit
PREREQUISITE: Currently taking or have completed Algebra 1 or Accelerated Algebra 1
FEE: None
The technology that drives web pages is everywhere. This technology not only drives your favorite web sites, but apps on phones, tablets and televisions use these tools as well. In this course, you will learn how to create interactive content with images, audio, and video using HTML 5, CSS, and Javascript. This course will also introduce you to Computational Thinking, a problem-solving process that uses logic and abstraction to take advantage of the processing power of computing devices.

CS500A - CS500B  ADVANCED PLACEMENT COMPUTER SCIENCE A
                  (10, 11, 12)  1 Year  1 AP Weighted Credit
PREREQUISITE: Algebra 2 or Honors Algebra 2
FEE: None
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.
CS510A - CS510B  ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES
(10, 11, 12)  1 Year  1 AP Weighted Credit
PREREQUISITE: Algebra 2 or Honors Algebra 2
FEE: None
AP Computer Science Principles introduces you to the essential ideas of computer science with a focus on how computing can impact the world. Along with the fundamentals of computing, you will learn to analyze data, information, or knowledge represented for computational use; create technology that has a practical impact; and gain a broader understanding of how computer science impacts people and society. The major areas of study in the AP Computer Science Principles course are organized around seven big ideas, which are essential to studying computer science: Creativity, Abstraction, Data and Information, Algorithms, Programming, the Internet, and Global Impact.
CTE106  INTRODUCTION TO ENGINEERING  
(9,10,11,12)  1 Semester  .5 Credit
PREREQUISITE: None
FEE: $15.00
In this class, students work in teams to research, design, and create a solution to several open-ended engineering challenges. Hands-on projects are chosen by students and could include topics like environmental friendliness, inventions and innovations, mass production, biotechnology, structural problems, and many more.

CTE107  ENGINEERING DESIGN  
(9,10,11,12)  1 Semester  .5 Credit
PREREQUISITE: Introduction to Engineering
FEE: $15.00
In this class, students learn to create and represent objects with 3D modeling software. Projects start from a product design, and will end with a tangible creation of the 3D model (using 3D printing, machining, etc.) Throughout this class, students will be exposed to technical drawing, industry design standards, 3D modeling, and manufacturing processes.

ST104  INTRODUCTION TO ROBOTICS  
(10,11,12)  1 Semester  .5 Credit
PREREQUISITE: Introduction to Engineering
FEE: $15.00
In this class, students will develop an understanding and skills in the basics of robotics. Students will work in small groups to design, build, and program robots to complete various challenges, from Spheros to VEX. Throughout the class, students will be exposed to technical drawing, keeping a design notebook, problem solving techniques, and professional presentation creation.

ST125  DIGITAL ELECTRONICS  
(10,11,12)  1 Semester  .5 Credit
PREREQUISITE: Introduction to Engineering, Algebra 1 (passed with a C)
FEE: $15.00
In this class, students will explore the world of digital electronics through breadboard circuits, soldering circuits, and programming electronics. Arduino and Raspberry Pi will be the primary hardware and software used for projects. This class will culminate in a final passion project based on the concepts and skills developed in class. Throughout the class, students will be exposed to technical drawing, keeping a design notebook, problem solving techniques, and basic circuitry.
AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issue 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.

The purpose of the course is to develop lifelong, healthy individuals with an understanding and academic knowledge of wellness as a lifestyle, exercise and fitness, nutrition, and consumer products and services. 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.

There are opportunities for students to act as student aids 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 aid or office aide (this is a Pass/Fail course). This class may be repeated.

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.
ASSISTANT SPECIAL EDUCATION

(10, 11, 12)  
1 Semester  
.5 Credit

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

(10, 11, 12)  
1 Semester  
.5 Credit

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 he/she is ill and cannot attend. The supervising elementary or middle school teacher will evaluate the student's performance to determine his/her 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.

TROJAN TECH TEAM

(9, 10, 11, 12)  
1 Semester  
.25 Credit

PREREQUISITE: Application Required

FEE: None

Students cannot register for Trojan Tech Team, but must apply and be appointed to the class. It is intended for tech savvy students who are interested in supporting teachers and students with technology. Some of the jobs include setting up iPads with new students, creating screencasts and documentation, exploring technology for the Maker-space and assisting teachers with lessons that involve a lot of technology. Students will explore virtual reality software and design ways to use new hardware and software for learning. If you are interested in Trojan Tech Team, please fill out the application. Mrs. Robbins will contact you after your application is reviewed. Good attendance and a minimum 3.0 GPA are required. Trojan Tech Team is a Pass/Fail course and can be repeated.
INDEPENDENT STUDIES
60 hours contact time in the teachers’ classroom

(10, 11, 12) .5 Credit

PREREQUISITE: Application Process, Principal and Instructor Approval

FEE: Varies depending course

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 Language 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.

LA403
THEATRE AND PRODUCTION
(09, 10, 11, 12) 1 Semester .5 Credit

PREREQUISITE: None

FEE: 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 Pantomime, short scenes, Improv games, and will culminate in performing student directed one act plays. This course may be taken multiple times, and advanced students may have the opportunity to direct. Active participation is a must. This class may be repeated.

LA404
ADVANCED THEATRE AND PRODUCTION
(10, 11, 12) 1 Semester .5 Credit

PREREQUISITE: Theatre and Production

FEE: None

This course is designed for the acting student that wants the challenge of Higher level acting assignments. This class will work collaboratively with the video production class and will focus on dramatic pieces, script writing, and acting for film, self-motivation & leadership skills are expected. This class may be repeated.

LA405
BEGINNING STAGE TECHNICIAN
(09, 10, 11, 12) 1 Semester .5 Credit

PREREQUISITE: None

FEE: 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.
**Miscellaneous Courses**

**LA429A - LA429B  YEARBOOK**
(09, 10, 11, 12)  
1 Year  
1 Credit
**PREREQUISITE:** Application Process  
**FEE:** None

This course is open to students interested in producing the school yearbook. Staff members must show strong skills in writing, 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 almost every facet of the book. Students will have the chance to learn digital photography, graphic design, and desktop publishing skills as part of the yearbook class. High standards of journalism and contemporary design will be expected. Students with prior experience or exceptional skills will be considered for positions as editors and section heads. Students who have taken business courses will be considered for business manager. This class is repeatable and is considered a Practical Arts Elective.

**MS162A - MS162B  STUDENT COUNCIL**
(09, 10, 11, 12)  
1 Year  
1 Credit
**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 pro-jects 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 Ms. Schroeder starting around the month of February 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.

**H100  HEALTH**
(9)  
1 Semester  
.5 Credit
**PREREQUISITE:** None, however, **THIS CLASS IS REQUIRED FOR GRADUATION**  
**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 course work and assignments will assist students in making informed decisions regarding behaviors that affect the various aspects of health and wellness.

**LA450A  DEBATE/FORENSICS**
(09, 10, 11, 12)  
1 Semester  
.5 Credit
**PREREQUISITE:** None  
**FEE:** $120.00

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. Thesefaults 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.*
E176A – E176B  ALD (ACADEMIC LANGUAGE DEVELOPMENT)  
(09, 10, 11, 12)  
1 Year  
1 Credit  
PREREQUISITE: None  
FEES: None  
This course is designed for students who are enrolled in a regular English class at their grade levels but still need additional support in reading, writing, listening and speaking to be highly successful at the level of their grade-level peers. These students are still reaching to achieve a level of fluency in English as determined by the ACCESS English language acquisition test given in January.

MS205  STUDENT POLICE ACADEMY  
(11, 12)  
1 Semester (Fall)  
.5 Credit  
PREREQUISITE: None  
FEE: None  
This course has been designed to better acquaint students with the operation of the Longmont Police Department and other facets of modern law enforcement. Representatives from the police department and other professionals within the criminal justice system present topics similar to those covered in the Colorado Law Enforcement Training Academy. These include patrol and investigations, search and seizure, vice and narcotics, gangs, emergency driving, K-9, S.W.A.T., and the F.B.I. The students will have a better understanding of the law enforcement role in the criminal justice system and law enforcement as a career field.

LT115  READING SEMINAR  
(9, 10, 11, 12)  
1 Year  
1 Credit  
PREREQUISITE: Teacher Recommendation  
FEE: None  
Reading Seminar is designed to improve college and career readiness skills by addressing reading fluency, vocabulary, comprehension of literature and informational texts, and strategies that foster independence. This course provides opportunities to read both self-selected and teacher-directed texts in an effort to increase student motivation and engagement. Reading Seminar balances an online intervention with activities tailored to individual student’s needs and also focuses on helping students understand their own learning by teaching self-advocacy skills. Reading Seminar is a semester elective course designed to support the transition to high school coursework as well as prepare students for their future. Improving independent literacy skills will help support students in all courses at Longmont High School and improve college and career readiness skills.
Music Courses

Band Courses

MU108  MARCHING BAND
(09, 10, 11, 12)  1 Semester  .5 Credit
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 per- form 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.

MU102A  BLUE BAND
(09, 10, 11, 12)  1 Semester  .5 Credit
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 his/her instrument. This class is offered only spring semester and may be repeated.

MU102B  WHITE BAND
(09, 10, 11, 12)  1 Semester  .5 Credit
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 his/her instrument. This course is offered only spring semester and may be repeated.

MU101A  FALL CONCERT BAND
(09, 10, 11, 12)  1 Semester  .5 Credit
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 per- form 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.
Music Courses

MU103  COLOR GUARD
(09, 10, 11, 12)  1 Semester  .5 Credit
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.

MU200  BEGINNING ACOUSTIC GUITAR
(09, 10, 11, 12)  1 Semester  .5 Credit
PREREQUISITE: None
FEE: $20.00
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 on 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.

MU205  INTERMEDIATE GUITAR
(09, 10, 11, 12)  1 Semester  .5 Credit
PREREQUISITE: Completion of Beginning Guitar or teacher appointment
FEE: $20.00 for guitar textbook
Intermediate Guitar allows advanced students, and “Beginning Guitar” students to continue their music studies. Intermediate Guitar will cover more advanced chords and chord progressions, second position, intermediate music theory, continuation of reading musical notation, and the art of improvisation. We will also explore guitar playing as related to modern music. Students will have the chance to perform many popular songs of their choice, and will be encouraged to write their own as well. Students will be expected to participate on an in-class recital at the end of the semester. Students need to provide their own guitar, and electric guitars are welcome (without amplifiers).

MU206  BEGINNING PIANO
(09, 10, 11, 12)  1 Semester  .5 Credit
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.
Music Courses

MU207 INTERMEDIATE PIANO
(09, 10, 11, 12) 1 Semester .5 Credit
PREREQUISITE: Beginning Piano or teacher approval
FEE: $20.00
Intermediate Piano provides continuing instruction for students who have completed Beginning Piano. Emphasis will be placed on learning a varied repertoire. Students will perform in a small piano recital at the end of the term.

MU106A - MU106B INTERMEDIATE JAZZ BAND
(09, 10, 11, 12) 1 Year 1 Credit
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.

MU107A - MU107B ADVANCED JAZZ BAND
(09, 10, 11, 12) 1 Year 1 Credit
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.

MU109 PERCUSSION FUNDAMENTALS & PERFORMANCE
(09, 10, 11, 12) 1 Semester .5 Credit
PREREQUISITE: None
FEE: $20.00
Do you like to hit, shake, rattle instruments or simply flail your arms around while hitting drums? This class is for you! This class is designed to allow the budding drummer explore all aspects of percussion playing including symphonic, chamber ensemble, marching drum-line and, of course, drum set. Members of this class may perform on a band concert. This course may be repeated for credit.
Music Courses

MU110  HONORS PERCUSSION ENSEMBLE
(10, 11, 12)  1 Semester  .5 Credit
PREREQUISITE: Audition Only
FEE: None
This class is designed for the serious percussionist who wishes to study advanced high school and college level percussion ensemble repertoire. Students will learn and perform advanced literature on some or all of the following instruments: snare drum, timpani, multiple percussion, 2 mallet and/or 4 mallet keyboard, and various accessories. Possible public performances will include a concert and Solo and Ensemble festival. Audition or teacher appointment is required. This course will be offered fall semester and may be repeated.

Orchestra Courses

MU130A - MU130B  ORCHESTRA
(10, 11, 12)  1 Year  1 Credit
PREREQUISITE: Completion of String Orchestra or Symphony Orchestra. By audition only.
FEE: $20.00
This is an advanced string orchestra for the top students who are devoted to playing at the highest level. Emphasis will be placed on high quality performance, music history, theory, and advanced techniques. Members of this group are selected by audition only and are expected to attend all rehearsals and 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.

MU131A - MU131B  STRING ORCHESTRA
(09, 10, 11, 12)  1 Year  1 Credit
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.

MU132A - MU132B  SYMPHONIC ORCHESTRA
(09, 10, 11, 12)  1 Year  1 Credit
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.
Music Courses

Vocal Music Courses

MU152A - MU152B  
BEL CANTO – ADVANCED WOMEN’S CHOIR  
(09, 10, 11, 12)  
1 Year  
1 Credit  
PREREQUISITE: Audition Only  
FEE: $80.00 first time members, $20.00 returning members  
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.

MU155A - MU155B  
CHAMBER SINGERS  
(10, 11, 12)  
1 Year  
1 Credit  
PREREQUISITE: Audition only. Concurrent enrollment in Bel Canto or Orpheus is required.  
FEE: $60.00 first time members, $20.00 returning members  
This group of men and women 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.

MU159A - MU159B  
MEN’S CHOIR  
(09, 10, 11, 12)  
1 Year  
1 Credit  
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 suite the abilities of the ensemble. This course may be repeated.

MU162A - MU162B  
ORPHEUS - ADVANCED MEN’S CHOIR  
(09, 10, 11, 12)  
1 Year  
1 Credit  
PREREQUISITE: Audition Only  
FEE: $80.00 first time members, $20.00 returning members  
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.
Music Courses

MU166A - MU166B       WOMEN’S CHOIR
(09, 10, 11, 12)       1 Year       1 Credit
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 suite the abilities of the ensemble. This course may be repeated.

Other Music Electives

MU 114       BEGINNING STEEL DRUM
(09, 10, 11, 12)       1 Semester       .5 Credit
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.

MU120A - MU120B       MARIACHI
(09, 10, 11, 12)       1 Semester       .5 Credit
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.

MU 215       MUSIC TECHNOLOGY I
(09, 10, 11, 12)       1 Semester       .5 Credit
PREREQUISITE: Any music class in middle or high school.
FEE: $20.00

This course will introduce students to the study of music technology. Students will explore the history of music technology, music literacy and terminology, equipment care, and how sound is created and documented. Students will apply this knowledge to music software and hardware in order to reinforce sound, create MIDI sequences, digitally record and edit audio, and create multi-media projects.
Music Courses

MU216  MUSIC TECHNOLOGY II
(09, 10, 11, 12)  1 Semester  .5 Credit
PREREQUISITE: Music Technology I
FEE: $20.00
This course will go into more depth on the subjects and materials introduced in Music Technology I. Students will work more in depth in the study of music technology as necessary to real world careers and post-secondary studies within the music industry. Students will work hands on with microphones, sound boards, MIDI sequencers, and digital and analog recording and editing devices and hardware. Students will learn to reinforce sound, record and edit audio from a variety of sources, and will then provide these services to the school and community. Students will also learn to evaluate music products including their own and how to take this product to the market.

MU500A - MU500B  ADVANCED PLACEMENT MUSIC THEORY
(10, 11, 12)  1 Year  1 AP Weighted Credit
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.
Physical Education Course Sequence Offerings

Health and one of the following courses are taken Freshman Year

GIRLS’ FITNESS I
Can be repeated grades 9-10

CORE PE

LIFETIME FITNESS
Can be repeated grades 9-12

Courses available to 10th-12th grade students upon the completion of Girls’ Fitness I, Core P.E., or Lifetime Fitness
# Physical Education Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Grade Levels</th>
<th>Credits</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE100</td>
<td>CORE P.E.</td>
<td>(09)</td>
<td>.5</td>
<td>None</td>
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<tr>
<td></td>
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<td>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, pickle ball, fitness/conditioning and weight training. Emphasis will be placed on participation.</td>
</tr>
<tr>
<td>PE101</td>
<td>LIFETIME FITNESS</td>
<td>(09, 10, 11, 12)</td>
<td>.5</td>
<td>None</td>
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<td>Emphasis will be on total body conditioning. This class will incorporate a variety of workout styles and will also have strength-training programs utilizing machines and free weights. Aerobic exercise will include aerobic step, circuit training, kickboxing, interval training, fitness walking, jogging, yoga, and Pilates. This course may be taken TWO times per school year. A student Off-Campus permission form is required for participation in fitness walking off campus.</td>
</tr>
<tr>
<td>PE104</td>
<td>ADVENTURE BOUND</td>
<td>(10, 11, 12)</td>
<td>.5</td>
<td>Core PE, Lifetime Fitness, or Girls Fitness I</td>
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<td></td>
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<td>This class features a range of low to high level activities, initiatives and games emphasizing cooperation, problem solving, team building and trust. There will be an introduction to traversing followed by “Climber Primer” week and then indoor vertical climbing on the LHS 30 foot climbing wall. A Parent Permission form and Student Safety contract are required for participation. This course may be taken ONE time during the high school career and may be repeated only upon request by instructor.</td>
</tr>
<tr>
<td>PE105</td>
<td>BELAY ON</td>
<td>(10, 11, 12)</td>
<td>.5</td>
<td>Adventure Bound</td>
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<td>This class features Longmont high schools 30-foot indoor vertical climbing wall. This course promotes learning through group interaction, cooperative teamwork and creative problem solving. Activities are designed to promote growth in self-confidence, self-esteem, mutual support skills and the ability to overcome personal obstacles. A Parent Permission form and Student Safety Contract are required for participation. This course may be taken ONE time per school year.</td>
</tr>
<tr>
<td>PE108</td>
<td>IRONWORKS I</td>
<td>(10, 11, 12)</td>
<td>.5</td>
<td>Core PE, Lifetime Fitness, or Girls’ Fitness I</td>
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<td>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. This course may be taken TWO times per school year.</td>
</tr>
</tbody>
</table>
Physical Education Courses

**PE114**
**NET & TARGET**
(10, 11, 12) 1 Semester .5 Credit
**PREREQUISITE:** Core PE, Lifetime Fitness, or Girls’ 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.

**PE113**
**INVASION & FIELD GAMES**
(10, 11, 12) 1 Semester .5 Credit
**PREREQUISITE:** Core PE, Lifetime Fitness, or Girls’ 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.

**PE131**
**SELF-DEFENSE**
(10, 11, 12) 1 Semester .5 Credit
**PREREQUISITE:** Core PE, Lifetime Fitness, or Girls’ Fitness I
**FEE:** None
Students will be introduced to the basic skills of self-defense. Course will include, but not limited to, escapes from your back to your feet, defending against strikes and striking with your hands and feet. Students will participate in various training methods and be tested throughout the semester in the five components of physical fitness. This course may be taken **ONE** time per school year. Students may only repeat this course with instructor approval.

**PE132**
**DANCE FITNESS**
(10, 11, 12) 1 Semester .5 Credit
**PREREQUISITE:** Core PE, Lifetime Fitness, or Girls’ Fitness I
**FEE:** None
Students will increase their flexibility, strength, coordination, and sense of movement through the study and performance of dance. History and cultural background of the style of Dance are covered. Throughout the semester students will explore yoga, ballet, hip-hop, and jazz. No prior dance experience is necessary. Students will be required to choreograph and perform the different dances for the class and as well as others for the final. This course may be taken **ONE** time per school year.

**PE145**
**YOGA / NUTRITION**
(10, 11, 12) 1 Semester .5 Credit
**PREREQUISITE:** Core PE, Lifetime Fitness, or Girls’ Fitness I
**FEE:** None
Yoga is about the union of each students’ own mind, body, and spirit. As a physical education class, our sessions will help make the body strong and flexible while improving the function of the respiratory, circulatory, digestive, and hormonal systems. On the physical level, students will practice yoga postures (asanas) that are designed to tone, strengthen, and align the body. On the mental level, students will use breathing techniques (pranayama) and meditation (dhyana) to quiet, clarify, and discipline their minds. Thus, in addition to physical and mental benefits we will involve nutrition education to enhance health and prevent disease.
Physical Education Courses

PE150 (09, 10) GIRLS’ FITNESS I
PREREQUISITE: Female Only 1 Semester .5 Credit
FEE: None
This class is designed for 9th and 10th grade girls only. Students will learn to develop high self-esteem, confidence, and competence through a variety of physical activities. Activities primarily include weight training, resistance training, plyometrics, interval training, and circuit training. Other activities include yoga, dance fitness, team building, and nutrition education. 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.
World Language Courses

WL101A - WL101B  FRENCH 1  1 Year  1 Credit
(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.

WL102A - WL102B  FRENCH 2  1 Year  1 Credit
(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.

WL103A - WL103B  FRENCH 3  1 Year  1 Credit
(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.

WL104A - WL104B  FRENCH 4  1 Year  1 Credit
(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.

WL141A-WL141B  MANDARIN CHINESE 1  1 Year  1 Credit
(09, 10, 11, 12)
PREREQUISITE: None
FEE: None

This beginning course will introduce students to Chinese and focus on listening, speaking, and reading abilities through classroom activities, conversation, reading, story writing, role playing, singing, calligraphy, games, etc. Students will acquire the knowledge and skills to begin communicating in Mandarin Chinese. Students will also be introduced to Chinese culture through media presentation and discussions.
World Language Courses

WL142A - WL142B MANDARIN CHINESE 2
(09, 10, 11, 12) 1 Year 1 Credit
PREREQUISITE: Mandarin Chinese 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 Chinese culture through readings, videos, music, art, and class discussions.

WL143A - WL143B MANDARIN CHINESE 3
(10, 11, 12) 1 Year 1 Credit
PREREQUISITE: Mandarin Chinese 2
FEE: None
This course continues students' learning, expanding topics through various classroom activities based on the prior two years. Four skills are emphasized: listening, speaking, reading, and writing. These abilities are integrated to help students develop the Chinese language to a level of fluency. Students will be expected to become independent learners and explore related topics, contexts, conversations, culture, etc. through texts, internet, or other media.

WL151A - WL151B SPANISH 1
(09, 10, 11, 12) 1 Year 1 Credit
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 Hispanic culture through readings, videos, music, art, and class discussions.

WL152A - WL152B SPANISH 2
(09, 10, 11, 12) 1 Year 1 Credit
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.

WL153A - WL153B SPANISH 3
(10, 11, 12) 1 Year 1 Credit
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.
### World Language Courses

**WL154A - WL154B**  
SPANISH 4  
(11, 12)  
1 Year  
1 Credit  
**PREREQUISITE:** Spanish 3 or Spanish fluency  
**FEE:** None  
Students at this level of Spanish are well on their way to fluency! 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.

**WL156A - WL156B**  
SPANISH for SPANISH SPEAKERS 1  
(09)  
1 Year  
1 Credit  
**PREREQUISITE:** Spanish Fluency  
**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.

**WL157A - WL157B**  
SPANISH for SPANISH SPEAKERS 2  
(10, 11, 12)  
1 Year  
1 Credit  
**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.

**WL510A - WL510B**  
ADVANCED PLACEMENT SPANISH LANGUAGE and CULTURE  
(11, 12)  
1 Year  
1 AP Weighted Credit  
**PREREQUISITE:** Spanish Language Fluency or Spanish 4  
**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)
Career Development Center

Course Description Book, Student Handbook and Applications

Can be located at:

http://cdc.svvsd.org/

Course Description Book

Can be located at:

http://tinyurl.com/ICclass1920