Mead High School graduates will communicate and collaborate as global citizens who leverage knowledge to identify and solve the problems of future generations.

Ignite, Inspire, Challenge

Mead High School
12750 County Road 7
Longmont, CO 80504
Phone: 720.494.3940  Fax: 720.494.3959

Also available online at mhs.svvsd.org
2016-17 School Year

Dear Mead Maverick Families,

Whether you are a freshman or a senior or someone in-between, this next school year will be critical in helping to better prepare you academically for the opportunities and challenges that your high school graduation will bring. Our goal at Mead High School is fairly simple: we want each and every one of you to be able to realize the goals that you have set for yourself in terms of “What comes next?”

So….what comes next? Whether you are looking at a junior college, four year university, or a certification program upon graduation, you will need to be sure that the courses you select in high school are adequate preparation for that next step. I seldom hear graduates express that they wish they had taken easier, less challenging courses in high school. I do hear, however, from those who wish they had challenged themselves more because they were not prepared for post high school studies.

This is the time to sit down as a family and plan out the path that will help you realize the dreams you have. You have multiple opportunities at Mead to take fun and interesting elective classes and to take challenging honors and advanced placement classes. I challenge each of you to stretch your learning next year by identifying at least one course where you can “step it up.” In doing so, you just might make the next big step you take a whole lot easier.

Best,

Linda Rawlings, Principal
Mead High School
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Susan Derden, Athletic/Activities Secretary
Gloria Edwards, Student Services Secretary
Shawna Frank-Stratton, Health Clerk
Valerie Rine, Attendance Clerk
Penni Anderson, Campus Supervisor
David Montelongo, Campus Supervisor
Deputy Jennifer Fick, School Resource Officer

Important Phone Numbers
Main Office
720-494-3940
720-494-3949 fax

Counseling Office
720-494-3950

Attendance
720-494-3943

Athletics
720-494-3945

District Closing Information
303-682-7387

Building Hours
Administrative Office Hours
6:45am — 3:00pm

Counseling Office Hours
7:00am—2:30pm

Mailing Address
Mead High School
12750 County Road 7
Longmont, CO 80504
General Information

IMPORTANT INFORMATION

This registration guide has been compiled for you and your parents to use in planning your academic program at Mead 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 prerequisites 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 adjusted to accommodate jobs, teacher preferences, transportation problems, or personal preferences, but only for legitimate educational reasons, i.e., improper prerequisites, improper level placement, failure of a course. If you are considering a schedule change you must have the course listed in your course request list in Infinite Campus.

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

- Mead 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.
- 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 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.

Course selection

Course selection should be the result of careful planning to complete graduation requirements as well as prepare for post secondary education. 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, see your counselor at Mead High School.
- 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 (http://chsaanow.com) and NCAA (www.eligibilitycenter.org).
- Before selecting a course, read the description to be sure it fits your needs and make sure you have completed the prerequisite course work necessary.

Infinite Campus Information

Each parent and student should be registered for Infinite Campus (IC). 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 Mead High School. To access Infinite Campus, log on to http://www.svvsd.org, 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 and 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 before a diploma will be issued. Students requiring financial assistance and/or who are eligible for free and 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. (Extreme hardship situations not meeting this minimum may be considered by the principal only.)
Course numbers: MA120A / MA120B
Course name: ALGEBRA 2

PREREQUISITE: 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, and 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: Honors courses and all AP classes have weighted grading.
Honors weighted scale: A = 4.5; B = 3.5; C = 2.5; D = 1.5; F = 0
AP weighted scale: 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. Mead 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.

Transfer Credits From Out of District Programs: Mead High School prides itself in providing a comprehensive and challenging academic program for all students. With this in mind, circumstances may arise whereby a student may look to other resources to enhance their education. Some of these options include correspondence, on-line courses or college courses (Non-CE). These courses are not meant to be substituted for a course available in the school’s master schedule. These courses are taken to supplement a student’s education. Per SVVSD policy IKF, only 2.0 credits may be taken out of district and applied to the student’s transcript for graduation. If a student wishes to pursue this avenue there are criteria that must be met. Families are responsible for the payment of these options. Please consult your student’s counselor for more information and an application before registering for these types of courses.

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” for a 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”.
Registration and Scheduling

The staff and administration at Mead High School believe that the most effective schedule for a student addresses the student’s needs while preparing them for success in post-secondary educational options. For this reason, we feel that a student’s schedule should maximize the educational opportunity afforded. Students are encouraged to plan ahead for their academic needs and work with school counselors and administration whenever possible. In an effort to help students address graduation requirements and maximize their opportunities, the following is a recommended class load by grade level.

- Grade 9 = 8 classes (Mead HS classes and CDC)
- Grade 10 = 8 classes (Mead HS classes and CDC)
- Grade 11 = 6-8 classes (Mead HS classes, CDC, Concurrent Enrollment, Time Release and Work Study)
- Grade 12 = 6-8 classes (Mead HS classes, CDC, Concurrent Enrollment, Time Release and Work Study)

By following this recommended schedule, a total of 26-32 credits would be accumulated with 24.5 required to graduate.

The scheduling year begins in January with pre-registration for the next school year. Students complete course requests during spring registration. Students are given self-guiding materials and access to course description books so they may begin making course selection decisions. Pre-registration is a necessary step in preparing the master schedule for the school year. Numbers generated by pre-registration are used to determine what classes will be offered and how many sections will be needed. Because pre-registration determines the master schedule, students are required to remain in classes in which they pre-registered for. If classes are not offered or there is a scheduling conflict, then a student may be placed into an alternative course they requested during pre-registration.

Schedule changes will be made ONLY for the following reasons:
1. A student failed a class required to continue in a sequence of classes.
2. A student is scheduled into the wrong level of a class.
3. A student passed a previously failed course in summer school or E-credit Recovery.
4. An error occurs in the student’s schedule that leaves a blank in the schedule, a class previously passed is on the schedule or there is a duplicate class on the schedule.
5. A student wishes to add a teacher’s aide, Work Study or Time Release.

Any schedule change is dependent on the availability of space in the classroom. After the schedule change period, no other changes will be made until the beginning of the second semester. According to SVVSD Board Policy, students cannot drop below 8 classes for 9th-10th grade and 6 classes for 11th and 12th grade. If a student drops a class after the 4th week of school, then a failing grade will be recorded on the student’s official transcript. If the last day of the four weeks falls on a non-school day, the next school day shall be the deadline.

Athletic Eligibility

A students’ eligibility is based on both 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 concurrent courses taken may count toward eligibility; however, a student wishing to use such concurrent credit for eligibility is required to verify his/her credit with the Athletic Director.

NCAA Division 1 & Division 2 Initial Eligibility

For specific details about NCAA Initial Eligibility for Division 1 or Division 2 athletics, please see your counselor and visit:

http://eligibilitycenter.org
Academic Recognition

**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 qualify for an academic letter:

1. A student must earn a 3.75 grade point average for the semester.
2. 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).
3. Courses taken on a pass/fail basis (student aiding, elementary tutors and work study) will NOT be considered in the computation of academic lettering.
4. All Advanced Placement and concurrent classes will be considered core area courses.
5. 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.

**Valedictorian / Salutatorian Criteria**
Beginning with the 2015-16 school year, the student with the highest rank in the senior class will be named the *Valedictorian* of the class. The senior year 3rd quarter grades will be considered the final grades for the second semester and will be calculated into the student’s cumulative grade point average. The student with the second highest rank will be named the *Salutatorian* of the class with the same process described above for determining that rank. Grade point averages will be calculated to three decimal places in order to determine the highest ranking students. In the event of a tie for either *Valedictorian* or *Salutatorian*, *co-Valedictorians* and/or *co-Salutatorians* will be named. All other students who have achieved a 4.0 grade point average or above will be named *Honor Graduates* of their graduating class.

The *Valedictorian*, *Salutatorian*, and *Honor Graduates* will all be recognized at the graduation ceremony. A staff committee selects the speakers for both Senior Night and Graduation, and the *Valedictorian* and/or *Salutatorian* are not guaranteed the right to speak at either event.

The final class rank will be determined at the end of the second semester and will appear on final transcripts.

A candidate for *Valedictorian* or *Salutatorian* must meet the following requirements:

- 12 or more credits must be completed at Mead High School.
- Students must be enrolled full-time at Mead High School during their junior and senior years.
- Classes granted a Passing or “P” will not be used in the GPA calculation.
- Students using non-accredited transfer credits towards graduation will not be considered for first or second rank in the class or for *Valedictorian* or *Salutatorian*.
- Students must maintain full-time academic status during their senior year.
- Concurrent enrollment classes taken during the spring semester of the student’s senior year will *not* be used for the purposes of the GPA calculation.
### Graduation Requirements

#### SVVSD Graduation Requirements

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4.0</td>
</tr>
<tr>
<td>Math</td>
<td>3.0</td>
</tr>
<tr>
<td>Science</td>
<td>3.0</td>
</tr>
<tr>
<td>Social Studies</td>
<td>3.0</td>
</tr>
<tr>
<td>PE</td>
<td>2.0</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>0.5</td>
</tr>
<tr>
<td>Practical Arts</td>
<td>0.5</td>
</tr>
<tr>
<td>Health</td>
<td>0.5</td>
</tr>
<tr>
<td>Electives</td>
<td>8.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>24.5</strong></td>
</tr>
</tbody>
</table>

#### *College Admission Recommendations*

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4 years</td>
</tr>
<tr>
<td>Math</td>
<td>4 years</td>
</tr>
<tr>
<td>Science</td>
<td>3-4 years</td>
</tr>
<tr>
<td>Social Studies</td>
<td>3-4 years</td>
</tr>
<tr>
<td>World Language</td>
<td>2-3 years</td>
</tr>
<tr>
<td>Academic Electives</td>
<td>2-3 years</td>
</tr>
</tbody>
</table>

*Colleges look at the type of courses students take in high school. Taking AP, Honors and Concurrent Enrollment classes indicates to colleges that you are preparing yourself for the type of coursework you will experience in college.

**English (4.0 credits)**
- English 9, English Honors 9, Integrated English 9, Integrated English Honors 9
- English 10, English Honors 10, Integrated English 10, Integrated English Honors 10
- English 11, AP English Language and Composition
- English 12, AP English Literature

**Social Studies (3.0 credits)**
- U.S./Colorado Government, AP U.S. Government

**Science (3.0 credits)**
- Biology, Biology Honors
- Chemistry, Chemistry Honors

**Mathematics (3.0 credits)**
- Algebra 1, Geometry, Geometry Honors, Algebra 2, Algebra 2 Honors, Pre-calculus w/ Trig Honors, Trigonometry & Statistics, AP Calculus, AP Stats, Intermediate Algebra

**Physical Education (2.0 credits) and Health (0.5 credit)**
- Net & Target, Invasion & Field, Fitness 1 & 2, Ironworks 1 & 2, Game On, Self Defense
- Health

**Fine Arts (0.5 credit)**
- Art, Music, Theater

**Practical Arts (0.5 credit)**
- Business, Technology, Family & Consumer Science, CDC

**Electives (8.0 credits)**
- Additional English, math, science, social studies, fine arts, practical arts, PE, world languages, energy, concurrent enrollment and CDC classes.
### Suggested Freshman Courses

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 9 or English Honors 9</td>
</tr>
<tr>
<td>World History/Geo, World History/Geo Honors or AP Human Geography</td>
</tr>
<tr>
<td>Algebra 1, Geometry or Geometry Honors</td>
</tr>
<tr>
<td>Biology or Biology Honors OR Biology Honors and AP Environmental Science</td>
</tr>
<tr>
<td>World Language—Spanish 1, Chinese 1, French 1</td>
</tr>
<tr>
<td>Health &amp; PE</td>
</tr>
<tr>
<td>Practical Arts or Fine Arts</td>
</tr>
<tr>
<td>PE, Fine Arts, Practical Arts, Energy, CDC or Elective</td>
</tr>
</tbody>
</table>

### Suggested Sophomore Courses

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 10 or English Honors 10</td>
</tr>
<tr>
<td>U.S. History, U.S. History Honors or AP U.S. History</td>
</tr>
<tr>
<td>Geometry or Algebra 2 (regular or honors)</td>
</tr>
<tr>
<td>Chemistry or Chemistry Honors OR Chemistry Honors &amp; AP Environmental Science</td>
</tr>
<tr>
<td>World Language—Spanish 2, Chinese 2, French 2</td>
</tr>
<tr>
<td>PE, Fine Arts, Practical Arts, Energy, CDC or Elective</td>
</tr>
<tr>
<td>PE, Fine Arts, Practical Arts, Energy, CDC or Elective</td>
</tr>
</tbody>
</table>

### Suggested Junior Courses

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 11 or AP English Lang &amp; Composition</td>
</tr>
<tr>
<td>U.S. Government or AP U.S. Government</td>
</tr>
<tr>
<td>Algebra 2, Precalculus w/Trig Honors or Stats &amp; Trig</td>
</tr>
<tr>
<td>Physics or AP Science class</td>
</tr>
<tr>
<td>World Language—Spanish 3, Chinese 3, French 3</td>
</tr>
<tr>
<td>Elective—AP or Concurrent Enrollment</td>
</tr>
<tr>
<td>Elective—AP or Concurrent Enrollment</td>
</tr>
<tr>
<td>PE, Fine Arts, Practical Arts, Energy, CDC or Elective</td>
</tr>
</tbody>
</table>

### Suggested Senior Courses

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 12 or AP English Literature</td>
</tr>
<tr>
<td>Social Studies elective—regular or AP</td>
</tr>
<tr>
<td>Trig &amp; Stats, AP Calculus or AP Statistics</td>
</tr>
<tr>
<td>Science elective—regular or AP</td>
</tr>
<tr>
<td>Elective or 4th year of World Language</td>
</tr>
<tr>
<td>Elective—AP or Concurrent Enrollment</td>
</tr>
<tr>
<td>Elective—AP or Concurrent Enrollment</td>
</tr>
<tr>
<td>PE, Fine Arts, Practical Arts, Energy, CDC or Elective</td>
</tr>
</tbody>
</table>

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**9th/10th Grade:** Honors classes are available in English, Math, Science and Social Studies classes for 9th and 10th graders. AP classes are available in Science and Social Studies classes for 9th and 10th graders. AP Music Theory, AP Studio Art, AP Computer Science and AP Seminar are also available for 10th graders.

**11th/12th Grade:** AP classes are available in English, Math, Science, Social Studies, Music, Art and Technology classes for 11th and 12th graders. AP Seminar and AP Research are also available for 11th and 12th graders.
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 at mhs.svvsd.org

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

- **Quality of Course Selection**—Colleges closely examine the quality of a student’s record. For most colleges and universities, a minimum preparation should include: 4 years of English, 4 years of Mathematics, 3 years of Science (laboratory), 3 years of Social Studies, and 2 to 3 years of World Languages. **However, students should consult the website of the college or university they are interested in attending to determine the exact requirements.** Colleges and universities look for students taking the most rigorous courses they can (i.e. push yourself to take at least an honors or AP course each year). Some colleges may have additional requirements not listed here. Students should complete 4 years of English, 4 years of Mathematics, 3 years of Natural Science, 3 years of Social Studies, 2-3 years of World Languages (same language) and 2-3 years of additional Academic Electives (may be chosen from any area above, computer science, art, music, or drama) to meet college admissions requirements to most colleges.

- **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 the spring semester of a student’s junior year. Sophomores and juniors should plan on taking the Preliminary Scholastic Aptitude Test (PSAT), which is administered at Mead High School in October. PSAT scores indicate the probability of success in Advanced Placement courses. The National Merit Scholarship uses the PSAT scores from the junior year to determine scholarship eligibility.

- **College Essay**—An increasing number of colleges are requesting a college essay as part of the application process. Most colleges will provide a topic to address in your essay.

- **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.

- **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 and depth of a student’s involvement in activities/athletics is more critical than the quantity of activities/athletics.

- **Naviance-Family Connection**—All students at Mead High School have access to Naviance. Naviance is a college and career planning system that Mead High School students use with their counselor to research colleges, explore careers, search for scholarships and develop their Individual Career and Academic Plan (ICAP). Students will also learn more about their interests, learning styles, strengths and personality through a series of inventories that help them match these personal traits to careers. Naviance can be accessed by using your SVVSD username and password at [http://connection.naviance.com/meadhs](http://connection.naviance.com/meadhs)
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
- 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
- G.P.A. 3.0+
- SAT 950+
- ACT 20+

**Competitive II College**
Examples: 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
- G.P.A. 2.5+
- SAT 850+
- ACT 18+

According to the U.S. Department of Labor’s Bureau of Labor Statistics, in 2014 there were 1,698,830 direct jobs in the Energy Industry.

This is an exciting and major growth industry. For example, in 2015, employers surveyed expect to see total employment in the solar industry increase by 20.9%.
About the MEA Program

The Mead Energy Academy (MEA) is a unique program that offers all interested students a secondary public education devoted to the principles of energy. The goal of this program is to equip future leaders to be innovators in an increasingly diverse energy industry. The MEA is open to all students whether their future plans include a two or four-year college degree, or direct entry into the workforce.

In the next five years, as much as 36% of the skilled energy workforce will need to be replaced due to retirement. By 2023, this estimate climbs to 50% (from the Center for Energy Workforce Development, www.cewd.org). Students who participate in the MEA program will be uniquely qualified to fill this growing need for a professional, diverse workforce. The MEA is also designed to prepare students for careers indirectly related to the energy industry, such as energy finance, environmental law, or energy brokering.

The MEA will prepare students for both academic college-bound and practical workforce-ready opportunities through cross-curricular courses in math, science, social studies, language arts, and business.

Completion of the MEA program will require 4 core courses: Geographic Information Systems (GIS), Principles of Energy Science, and Energy Industry Practices, and a Senior Project. Students will also be required to select three courses from the following list:

- AP Chemistry
- AP Environmental Science
- AP Physics 1
- AP Physics 2
- AP Biology
- AP Economics
- AP Language and Composition
- Marketing
- AP Computer Science
- Welding*
- Engineering Tech*
- Speech **
- Introduction to Business
- Business Law
- Meteorology
- AP Seminar
- Introduction to Programming
- Geology
- AP Calculus
- AP U.S. Government
- Start Your Own Business
- AP Statistics
- AP Research

* CDC class  ** FRCC class

This list is subject to change

MEA Senior Project and Internship

Along with rigorous coursework, Mead Energy Academy seniors will design and complete a research project in conjunction with the opportunity for an internship with an energy related organization. Through both internships and the research projects designed by students, MEA participants will interact with energy professionals, apply modern technology in their project and develop skills needed in the workplace.

Careers in Energy:

<table>
<thead>
<tr>
<th>High School Diploma</th>
<th>2 year degree</th>
<th>4 year degree or higher</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line Worker</td>
<td>Solar or Wind Installer</td>
<td>Engineering</td>
</tr>
<tr>
<td>Driller</td>
<td>Power Plant Operator</td>
<td>Geologist</td>
</tr>
<tr>
<td>Power Generation Technician</td>
<td>Nuclear Reactor Operator</td>
<td>Geophysicist</td>
</tr>
<tr>
<td>Solar or Wind Technician</td>
<td>Environmental Protection Technician</td>
<td>Lawyer</td>
</tr>
<tr>
<td>Substation Mechanic</td>
<td></td>
<td>Government Relations Representative</td>
</tr>
<tr>
<td>Meter Technician</td>
<td></td>
<td>Lease Analyst</td>
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<tr>
<td>Pipe layer</td>
<td></td>
<td>Financial Planning Analyst</td>
</tr>
<tr>
<td>Radiation Protection Technician</td>
<td></td>
<td>Marketing Professional</td>
</tr>
<tr>
<td>Welder</td>
<td></td>
<td>Health &amp; Safety Advisor</td>
</tr>
<tr>
<td>Lease Record Coordinator</td>
<td></td>
<td>Environmental Scientist</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Information Technology Analyst</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Accountant</td>
</tr>
</tbody>
</table>
Students must meet all of the St. Vrain Valley School District graduation requirements. Advanced Placement and Honors courses are encouraged in the Energy Academy, however our goal is for the program to be accessible to all students interested in energy. In addition to the St. Vrain Valley School District requirements, students who wish to receive an Energy Academy certificate upon graduation must also complete the following requirements:

**Energy Academy Core Courses** - Each student must complete core Energy courses with a grade of a C or better:
- Principles of Energy Science A & B (1.0 credit)
- Energy Industry Practices A & B (1.0 credit)
- GIS** (.5 credit)
- Internship & Capstone Project (.5 credit)

**Science** - Students must successfully complete a minimum of 6.0 credits, including Biology and Chemistry. The four Energy Academy courses count towards the 6.0 credits, and students are required to have at least a C average or better in all semesters of the Energy Academy core courses to earn the Energy Academy certification.

**Energy Academy Electives** - Students will select 3 courses from the list below to complete as part of the Energy Academy Electives. These courses may be used as core or elective credits for graduation. If using these courses for core classes please ensure you have enough elective credits for graduation (8 total elective credits are needed for graduation). World Language and Energy Academy Core courses will count towards the St. Vrain Valley School District graduation requirements.

- AP Chemistry
- AP Physics C
- Marketing
- AP U.S. Government
- Engineering Tech*
- Business Law
- AP Seminar
- AP Calculus

- AP Environmental Science
- AP Micro/Macro Economics
- AP English Language and Composition
- AP Computer Science Principles
- Speech **
- AP U.S. History
- Introduction to Programming
- Start Your Own Business

- AP Physics 1
- AP Biology
- AP Research
- Welding*
- Introduction to Business
- Meteorology
- Geology
- AP Statistics

This list is subject to change

*CDC class
**FRCC class

**World Language** - Students will need to complete a minimum of 2.0 credits of the same world language.

**Mathematics** - Students must successfully complete 3.0 credits.

**English** - Students must complete 4.0 credits of English, which can include Honors and Advanced Placement courses.
# Energy Academy

## Sample Class Schedule for Energy Academy Students

<table>
<thead>
<tr>
<th>Freshmen</th>
<th>Sophomore</th>
<th>Junior</th>
<th>Senior</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Principles of Energy</strong> (1)</td>
<td><strong>Energy Industry Practices</strong> (1)</td>
<td><strong>GIS</strong> (1)</td>
<td><strong>Internship &amp; Capstone</strong> (1)</td>
</tr>
<tr>
<td>Algebra 1/Math (1)</td>
<td>Geometry/Math (1)</td>
<td>Algebra 2 / Math (1)</td>
<td>Math (1)</td>
</tr>
<tr>
<td>Biology (1)</td>
<td>Chemistry (1)</td>
<td>Science (1)</td>
<td>Science (1)</td>
</tr>
<tr>
<td>English (1)</td>
<td>English (1)</td>
<td>English (1)</td>
<td>English (1)</td>
</tr>
<tr>
<td>World Geography (1)</td>
<td>U.S. History (1)</td>
<td>U.S./CO Government (1)</td>
<td>2 Electives (1)</td>
</tr>
<tr>
<td>World Language (1)</td>
<td>World Language (1)</td>
<td>World Language (1)</td>
<td>2 Electives (1)</td>
</tr>
<tr>
<td>Health/PE (.5 / .5)</td>
<td>PE (1)</td>
<td>Optional Electives</td>
<td>Optional Electives</td>
</tr>
<tr>
<td>PE and Elective (.5 / .5)</td>
<td>2 Electives (.5 / .5)</td>
<td>Optional Electives</td>
<td>Optional Electives</td>
</tr>
<tr>
<td>8 Credits</td>
<td>8 Credits</td>
<td>6 credits</td>
<td>6 credits</td>
</tr>
</tbody>
</table>
“Deciding to take an AP course lets colleges and universities know that you have what it takes to succeed in an undergraduate environment. When admissions officers see “AP” on your transcript, they know that what you experienced in a particular class has prepared you well for the challenges of college. Taking AP is a sign that you’re up for the most rigorous classes your high school has to offer.”

-College Board

“To be competitive, challenge yourself by pursuing the most rigorous courses available that are appropriate to your level of ability in each academic area. The number of courses taken beyond the minimum requirements, as well as those designated as advanced, honors, gifted, or AP—will be considered in the admission process.”

CU Boulder
Admissions Office
Advanced Placement and Honors

Advanced Placement

Mead High School has had an outstanding Advanced Placement Program. This program is designed for students who wish to engage in an enriched academic program of studies with the potential to earn college credit. There are many benefits of taking AP courses. An AP curriculum helps students acquire the skills and habits they’ll need to be successful in college. Students will improve their writing skills, sharpen their problem-solving abilities, and develop time management skills, discipline and study habits. Mead High School has exceptional AP teachers who are enthusiastic and highly committed to the AP Program.

Mead HS is proud to offer the following AP courses for potential college credit:

- AP English Language & Composition
- AP Human Geography
- AP Government and Politics: United States
- AP Micro Economics
- AP Psychology
- AP Statistics
- AP Chemistry
- AP Physics 1
- AP Computer Science Principles
- AP Seminar
- AP Research (2017-2018)
- AP European History (2017-2018)
- AP Art History (2017-2018)
- AP English Literature
- AP Comparative Government & Politics
- AP United States History
- AP Macro Economics
- AP Calculus AB
- AP Biology
- AP Environmental Science
- AP Physics C
- AP Studio Art 2D/3D
- AP Music Theory
- AP Spanish Language (2017-2018)
- AP French Language (2017-2018)
- AP Calculus BC (2017-2018)

Advanced Placement Courses are weighted on a 5.0 scale. All Advanced Placement courses have a culminating AP Exam administered at Mead High School in May. Students may receive college credit based on the score they receive on the AP Exam. For more information about AP courses visit www.collegeboard.com.

Honors

Mead High School is proud to offer an exemplary Honors Program. The courses within this curriculum provide excellent preparation for our Advanced Placement offerings. In addition, these courses provide students with an opportunity for higher-level thinking, creativity and rigor.

- English Honors 9
- Biology Honors
- World History/Geography Honors
- Geometry Honors
- Pre-calculus with Trig Honors
- English Honors 10
- Chemistry Honors
- U.S. History Honors
- Algebra 2 Honors

Honors courses are weighted on a 4.5 scale. Only 9th & 10th grade students can receive weighted credit for honors courses per SVVSD Board Policy.
Benefits of AP Capstone

- Fosters the research, argumentation, and communication skills that are at the core of college readiness and essential for lifelong learning.

- Provides a setting to build on the knowledge and rigorous course work of Advanced Placement in an interdisciplinary format.

- Offers students a unique opportunity to distinguish themselves to colleges and universities.
AP Capstone is an innovative diploma program that helps you stand out in the college admission process by developing the critical skills needed to succeed in college and in life.

Two new courses — AP Seminar and AP Research — allow you to immerse yourself in topics that matter to you while developing the analytic, research, problem-solving, and communication skills that colleges seek in their applicants. This challenging program helps you deepen your passion for learning, gives you greater confidence in your academic skills, and provides a broader perspective on your world.

Students typically take AP Seminar in the 10th or 11th grade, followed by AP Research. Students who earn scores of 3 or higher on the AP Seminar and AP Research Exams and on four additional AP Exams of their choosing will receive the AP Capstone Diploma™. This signifies outstanding academic achievement and attainment of college-level academic and research skills. Alternatively, the AP Seminar and Research Certificate™, signifying attainment of college-level academic and research skills, is awarded for scores of 3 or higher on the AP Seminar and AP Research Exams only.

Combining Scholarly Practice with Academic Intensity

AP Capstone was developed in response to feedback from the College Board’s Higher Education membership. The two AP Capstone courses, with their associated performance tasks, assessments, and application of research methodology, complement the rigor of AP courses and exams by challenging students to:

1. Think critically and creatively to construct meaning or gain understanding
2. Plan and conduct a study or investigation
3. Propose solutions to real-world problems
4. Plan and produce communication in various forms
5. Collaborate to solve a problem
6. Integrate, synthesize, and make cross-curricular connections.

For more information about the AP Capstone program, please visit:

https://lp.collegeboard.org/ap-capstone
GRADE 9/10
INTEGRATED
ENGLISH &
HISTORY
Integrated English 9 and World History/Geography

This is an integrated course that incorporates the standards for World Geography/History and English 9. Students will be in a classroom with both an English teacher and a Social Studies teacher and will be interacting with content and skills from both disciplines on a daily basis. The integrated program aims to extend and enrich the curricula for students with intellectual curiosity and interest in history and English, and who desire to experience the curriculum beyond the standard classroom environment. English and Social Studies enhance one another as students explore events and literature from around the world and throughout history. In an ever-changing and interconnected world, the integrated class provides the skills students will need to tackle complex problems and analyze world events, literature and informational writing. The English focus of this class aims to develop students’ argumentative writing skills, literary analysis, media literacy, and nonfiction and informational analysis. The social studies focus of this course is the study of past and contemporary cultures from around the world and analysis of major events and time periods in world history, including current world events. Students will explore fiction, nonfiction, and themes of geography and history by reading, analyzing, and applying both primary and secondary historical resources to their analysis. Students will also engage in written and verbal analysis as they read literature pertaining to regional studies and historical eras. Products from this class will include argumentative writing, internet and app-based products, Socratic Seminar discussions and research projects. Students will be assessed in written, oral, and visual formats and will be expected to work both independently and in groups. Students will develop research skills, critical thinking skills, and reading, writing and speaking skills needed to be successful in future Social Studies and English courses.

Integrated English 9 and World History/Geography Honors

This is an integrated course that incorporates the standards for World Geography/History and English 9. Students will be in a classroom with both an English teacher and a Social Studies teacher and will be interacting with content and skills from both disciplines on a daily basis. The integrated program aims to extend and enrich the curriculum for students with intellectual curiosity and interest in history and English and who desire to be challenged beyond the standard classroom environment. Students will be in a classroom with both an English teacher and a Social Studies teacher and will be interacting with content and skills from both disciplines on a daily basis. In this honors course, students are expected to use cross-curricular and critical thinking to analyze, synthesize, and evaluate information in great depth, placing emphasis on:

- The use of evidence to support credible claims;
- Evaluation of data and evidence as it pertains to credible claims;
- Analysis of primary and secondary sources;
- Guided and self-directed reading, annotation, and note-taking;
- The use of sophisticated and academic language;
- The use of reasoning to build an understanding of complex world events and problems and analyze past and current events, read literature that was influenced by historical events, and learn how to process this information through varied activities, assignments, and assessments.
- Building argumentative/persuasive writing skills, literary analysis, historical fiction and informational analysis, as well as research skills.
- Identify and understand concepts of continuity and change, cause and effect, complexity, unity, and diversity over time;
- Preparing the Honors student for the rigors of Advanced Placement courses in the English and Social Studies Departments.

Assessments include various types of formal writing, research projects, tests, paired text analysis, individual and group projects, presentations, and Document-Based Question essays. Products from this class will include argumentative writing, internet and app-based products, Socratic Seminars, research projects, and performance-based assessments.
Integrated English 10 and U.S. History

This is an *embedded and integrated course that not only incorporates the standards for United States History and English 10, but it also meets the unique needs of all learners in the class. Students will be in a classroom with both an English teacher and a Social Studies teacher and will be integrating content and skills from both disciplines on a daily basis. English and Social Studies enhance one another as students explore events and literature from multiple genres and eras throughout American History. The integrated class provides the skills students will need to address complex problems and analyze past and current events, read literature that was influenced by historical events, and learn how to process this information through varied activities, assignments, and assessments. The English focus of this class aims to develop students’ argumentative and persuasive writing skills, literary analysis, historical fiction and informational analysis, as well as research skills. The social studies focus the study of the social, economic, and political history of various eras in American History through reading, analysis, and application of both primary and secondary historical resources to their analysis. Products from this class will include argumentative writing, internet and app-based products, participating in Socratic Seminar discussions, conducting research, and developing performance-based assessments. Students will be assessed in written, oral, and visual formats and will be expected to work both independently and in groups. The integrated program aims to extend and enrich the curriculum for students with curiosity and interest in history and English and who desire to be challenged beyond the standard classroom environment. Students will develop research skills, critical thinking skills, and reading, writing and speaking skills needed to be successful in future Social Studies and English courses.

Integrated English 10 and U.S. History Honors

This is an *embedded and integrated course that not only incorporates the standards for United States History Honors and English 10 Honors, but that also meets the unique needs of all learners in the class. The integrated program aims to extend and enrich the curriculum for students with intellectual curiosity and who desire to be challenged beyond the standard classroom environment. Students will be in a classroom with both an English teacher and a Social Studies teacher and will be integrating content and skills from both disciplines on a daily basis. At the Honors level, students are expected to use cross-curricular and critical thinking to analyze, synthesize, and evaluate information in greater depth, placing emphasis on:

- The development of evidence to support credible claims;
- Evaluation of data and evidence as it pertains to credible claims;
- Analysis of the relevancy of a variety of primary and secondary sources;
- Self-directed reading, annotation, and note-taking;
- The use of sophisticated and academic language;
- The use of inductive and deductive reasoning to address complex problems and analyze past and current events, read literature that was influenced by historical events, and learn how to process this information through varied activities, assignments, and assessments.
- The development of advanced argumentative/persuasive writing skills, literary analysis, historical fiction and informational analysis, as well as research skills.
- Application and analysis of concepts of continuity and change, cause and effect, complexity, unity, and diversity over time;
- Preparing the Honors student for the rigors of Advanced Placement courses in the English and Social Studies Departments.

Assessments include various types of formal writing, research projects, tests, paired text analysis, individual and group projects, presentations, and Document Based Question essays. Products from this class will include argumentative writing, internet and app-based products, participating in Socratic Seminar discussions, conducting research, and developing performance-based assessments.

*embedded—Integrated English 10 and Integrated U.S. History classes are embedded with honors curriculum (i.e. regular and honors students are enrolled in this class together).
“I was overjoyed when I saw that the integrated class incorporated learning strategies, such as annotated notes, right from the start. Not only do the teachers continually ask students to use the strategies they teach, but they explicitly teach them how to use the strategies at the beginning of the year. My son has remarked that this class is incredibly well planned. From what he describes, not a minute is wasted in the class. In addition, the assignments are phenomenal. To me, this class is what learning is supposed to be about: it is capturing a student’s interest as they learn important events, teaching them lifelong academic skills, and helping them respond in creative ways. [My son] has always been a good student but he is not the best at inference skills or “thinking out of the box.” I feel that this class helped him in both areas.”

“I just wanted to write and tell you thank you so much for a fantastic year! [Our daughter] has really enjoyed the integrated class. She has never been interested in literature or history until this year. You made this class fun for her and she learned so much. For that, I am very grateful. Again, thank you both for everything!”

“Just wanted to send a note to thank you for the hard work you put in this year with the integrated class. [My son] really enjoyed the class and we saw a lot of value in it. I appreciate your efforts!”

“I would just like to thank you for all of your hard work. I am very impressed with the impact integrated has had on [my daughter], and all of the kids for that matter, as evidenced by the student presentations today.”

“Integrated is a class that allows you to have fun and debrief while learning two subjects at once. The class is a great option for ALL students. The teachers give great support and help students achieve both English and history goals. The class is a great experience!”

“Integrated is a great class because it connects both History and English. It allows students to see connections between the two subjects that would otherwise go unnoticed. In taking this class I have been able to see how our world has changed because of the history that is occurring.”

“Integrated was a beneficial course because the English writing formats and projects were intertwined with the historical content we were learning. We got to pin-point and expand our knowledge on specific historical events in a well developed written format, along with expressing our individual creativity through multiple assessment formats. In addition to these benefits, integrated was, over all, well organized and a fun class to take part in.”
COURSE OFFERINGS
Language Arts Course Sequence

9th Grade English
8th grade students may register for any English 9 class

- English 9
- English Honors 9
- Integrated English 9
- Integrated English Honors 9

10th Grade English
Students may register for any English 10 class after completing any one of the English 9 classes above

- English 10
- English Honors 10
- Integrated English 10
- Integrated English Honors 10

11th Grade English
Students may register for English 11 or AP English Lang & Comp after completing any English 10 class

- English 11
- AP English Language and Composition

12th Grade English
Students may register for English 12, AP English Literature or AP English Language and Composition after completing 11th grade English

- English 12
- AP English Literature
- AP English Language and Composition
In order to graduate from Mead High School, students must earn a total of 4.0 credits of English during their freshman, sophomore, junior, and senior years.

GENERAL REQUIREMENTS:

Freshman Year:
- English 9
- Integrated English 9
- English Honors 9
- Integrated English Honors 9

Sophomore Year:
- English 10
- Integrated English 10
- English Honors 10
- Integrated English Honors 10

Junior Year:
- English 11
- AP English Language & Comp

Senior Year:
- English 12
- AP English Literature

See pages 20-23 for details about the Mead High School Integrated program!

LA110A / LA110B
ENGLISH 9
1.0 Credit
PREREQUISITE: None
FEE: None
This course explores timeless issues through short fiction, literary non-fiction, novel, drama, poetry, film, and lecture. Students produce analysis essays, short films, app-based projects, Socratic Seminars, and research projects as they develop essential skills in research, critical thinking, close reading, and analytical writing. Texts may include, in whole or in part: Homer’s *Odyssey*, Shakespeare’s *Romeo & Juliet*, Cisneros’ *House on Mango Street*, Weisel’s *Night*, and Asgedom’s *Of Beetles and Angels*. In alignment with the Common Core Standards, this class teaches critical skills for success across all content areas throughout high school.

LA113A / LA113B
ENGLISH HONORS 9
1.0 Credit—weighted 4.5
PREREQUISITE: None
FEE: None
This rigorous course explores timeless issues through short fiction, literary non-fiction, novel, drama, poetry, film, and lecture. Students produce analysis essays, short films, app-based projects, Socratic Seminars, and research projects as they develop essential skills in research, critical thinking, close reading, and analytical writing. Texts may include, in whole or in part: Homer’s *Odyssey*, Shakespeare’s *Romeo & Juliet*, Cisneros’ *House on Mango Street*, Weisel’s *Night*, and Asgedom’s *Of Beetles and Angels*. This honors class will focus closely on the Toulmin model of argument, teaching students to support credible claims with clear, logical detail and explanation. In alignment with the Common Core Standards, this course teaches students to close-read and annotate complex, higher-level texts. This course prepares students for further honors and Advanced Placement courses.

LA114A / LA114B
INTEGRATED ENGLISH 9
LA115A / LA115B
INTEGRATED ENGLISH HONORS 9
1.0 Credit—Regular at 4.0
1.0 credit—Honors weighted at 4.5
PREREQUISITE: None
FEE: None
For a comprehensive description and testimonials of these integrated courses, please see page 21. These popular courses are a fresh approach to a standard curriculum, integrating the content and Common Core Standards for World History/Geography and English 9. Each discipline enhances the other as students explore events and literature from around the world and throughout history. Students study past and contemporary cultures from around the world and will analyze major events and time periods in world history while closely studying a variety of literary works. Space in these courses is limited. Students enrolled in the honors course will prepare for further honors and Advanced Placement courses.

LA120A / LA120B
ENGLISH 10
1.0 Credit
PREREQUISITE: English 9
FEE: None
This course explores timeless texts of American literature through short fiction, literary non-fiction, novel, drama, and poetry, film, lecture, and TED talks. Students will produce analysis essays, short films, app-based projects, Socratic Seminars, and research projects as they develop essential skills in research, critical thinking, close reading, and analytical writing. Texts may include, in whole or in part: Twain’s *Huckleberry Finn*, Bradley’s *Flags of our Fathers*, Hansberry’s *A Raisin in the Sun*, Stienebeck’s *Of Mice and Men*, and Miller’s *Crucible*. In alignment with the Common Core Standards, this class teaches critical skills for success across all content areas throughout high school.
LA121A / LA121B  
**ENGLISH HONORS 10**  
1.0 Credit—weighted 4.5  
**PREREQUISITE:** English 9  
**FEE:** None  
This course explores timeless texts of American literature through short fiction, literary non-fiction, novel, drama, poetry, film, and lecture. Students will produce analysis essays, short films, app-based projects, Socratic Seminars, and research projects as they develop essential skills in research, critical thinking, close reading, and analytical writing. Texts may include, in whole or in part: Twain’s *Huckleberry Finn*, Bradley’s *Flags of our Fathers*, Hansberry’s *A Raisin in the Sun*, Steinbeck’s *Of Mice and Men*, and Miller’s *Crucible*. This honors class will build on the Toulmin model of argument, teaching students to develop credible claims with clear, logical detail and sophisticated explanation. In alignment with the Common Core Standards, this course teaches students to close-read and annotate complex, higher-level texts. Students who wish to pursue Advanced Placement courses should take this course.

LA122A / LA122B  
**INTEGRATED ENGLISH 10**  
LA123A / LA123B  
**INTEGRATED ENGLISH 10 HONORS**  
1.0 Credit—Regular at 4.0  
1.0 credit—Honors weighted at 4.5  
**PREREQUISITE:** None  
**FEE:** None  
For a comprehensive description and testimonials of the integrated courses, please see page 21.  
This popular honors course is a fresh approach to a curriculum that integrates the content and Common Core Standards for United States History and English 10, while successfully meeting the unique learning needs of all learners in the class. The integrated program aims to extend and enrich the curriculum for students with intellectual curiosity and who desire to be challenged beyond the standard classroom environment. Students enrolled in the Honors course will prepare for further honors and Advanced Placement courses.

LA130A / LA130B  
**ENGLISH 11**  
1.0 Credit  
**PREREQUISITE:** English 10  
**FEE:** None  
This rigorous, grade-level course provides students with a comprehensive understanding of argumentation, including an author’s purpose, significance of audience demographics, and the rhetorical/literary tools employed to help the writer reach the audience. In alignment with Common Core Standards, students analyze texts for literary significance while identifying the key rhetorical aspects and employing such devices within their own writing. Texts may include, in whole or in part: Krakauer’s *Into the Wild*, Lee’s *To Kill a Mockingbird*, Fitzgerald’s *Great Gatsby*, Salinger’s *Catcher in the Rye*, and selected memoirs. Products will include: quizzes, tests, Socratic Seminars, class discussions, essays, blogs, digital discussions, app-based projects, and journals. In alignment with the Common Core Standards, this class teaches critical skills for success across all content areas throughout high school and college or career.

LA500A / LA500B  
**AP ENGLISH LANGUAGE AND COMPOSITION**  
1.0 Credit—weighted 5.0  
**PREREQUISITE:** English 10  
**FEE:** None  
Advanced Placement Language and Composition extends beyond mere “college prep,” challenging students instead to complete work equivalent to a college freshman composition and rhetoric course. The general purpose of the class is to help students understand and implement the principles of rhetoric. By the end of the year, students will understand when and how someone is attempting to influence them, and they will have practiced such influence within their own writing. Texts may include, but are not limited to: Shakespeare’s *Henry V*, Steinbeck’s *Grapes of Wrath*, Gladwell’s *Tipping Point*, Capote’s *In Cold Blood*, and multiple works of non-fiction. This course prepares students for the English Language and Composition Advanced Placement Exam. Please note that the workload and academic content in this class are equivalent to a college freshman core composition class and require strong commitment and dedication.
LA 140A / LA140B

ENGLISH 12

1.0 Credit

PREREQUISITE: English 11

FEE: None

This rigorous, grade-level course examines a variety of world literature, both classic and contemporary. Students explore such thematic topics as human interaction with the environment, society, and others; societal implications on the individual and the individual’s significance to society; and the evolution of individual identity. Texts may include, in whole or in part: Shakespeare’s *Hamlet*, Dickens’ *Great Expectations*, Coelho’s *Alchemist*, Bradbury’s *Fahrenheit 451*, and Hesse’s *Siddhartha*. Products will include: quizzes, tests, Socratic Seminars, class discussions, essays, blogs, digital discussions, app-based projects, and journals. In alignment with the Common Core Standards, this class teaches critical skills for success across all content areas throughout high school and college or career.

LA510A / LA510B

AP ENGLISH LITERATURE

1.0 Credit—weighted 5.0

PREREQUISITE: English 11 or AP English Lang & Comp

FEE: None

This course is recommended for students who are interested 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. Texts may include, but are not limited to: Shakespeare’s *Hamlet*, Miller’s *Death of a Salesman*, Dickens’ *Great Expectations*, Chaucer’s *Canterbury Tales*, Shelley’s *Frankenstein*, and Kingsolver’s *Poisonwood Bible*. This course prepares students for the English Literature and Composition AP Exam and for college and university classes.
Mathematics Course Sequence

Algebra 1

Geometry or Geometry Honors

Algebra 2 Extensions Algebra 2 Algebra 2 Honors

AP Statistics

Trigonometry & Statistics

Pre-Calculus w/ Trig Honors

AP Statistics AP Calculus AB

*Can be taken concurrently with any other math class (Algebra 2 or higher) as an additional math class.

*Statistics 0.5 credit

Support Classes
Teacher recommendation only

Algebra/Geometry Extensions Intermediate Algebra Algebra 2 Extensions
In order to graduate from Mead High School, students must earn 3.0 credits of Math (Algebra 1 or higher).

**GENERAL RECOMMENDATIONS:**

**Core Classes**
- Algebra 1
- Geometry / Geometry Honors
- Algebra 2 / Algebra 2 Honors

**Advanced Classes**
- Trigonometry & Statistics
- Precalculus w/ Trig Honors
- AP Statistics
- AP Calculus AB

**Support Classes**
- Algebra Extensions
- Geometry Extensions
- Intermediate Algebra
- Algebra 2 Extensions

**Calculators**
The use of graphing calculators is encouraged in all math courses, but is not mandated for Algebra I and Geometry. A simple scientific calculator will work for these two courses.

Students in Algebra II and other advanced math courses are in need of a Texas Instruments model TI-83 Plus or TI-84 Plus. Each teacher will have a classroom set that can be used at school ONLY. Please talk to your student’s teacher to identify inexpensive ways to purchase these calculators.

**Supplies**
Every student in a math course will be charged a one-time fee each year of $5 to help offset material costs. This fee covers the cost of batteries for the calculators, compasses, rulers, software updates, protractors, and classroom manipulatives.

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**Mathematics**

**MA110A / MA110B**
**ALGEBRA 1**
1.0 Credit
PREREQUISITE: None
FEE: None
A yearlong course meeting every other day intended for students ready for a regular Algebra class. Algebra I sets the foundation for all high school mathematics and includes focuses on data analysis and probability, proportional reasoning, linear equations and graphing, systems of equations, properties of functions, quadratics, and exponential functions. A scientific calculator is needed for this course.

**MA115A / MA115B**
**GEOMETRY**
1.0 Credit
PREREQUISITE: Algebra 1
FEE: None
In this yearlong course meeting every other day, students gain a basic understanding of geometric principles and problem solving through discovery and investigations. Topics include inductive and deductive reasoning, geometric terminology, algebra review, line and angle relationships, triangles and right triangle trigonometry, polygons, circles, similarity, area and volume, and the Pythagorean theorem. A scientific calculator is required.

**MA116A / MA116B**
**HONORS GEOMETRY**
1.0 Credit—weighted 4.5
PREREQUISITE: Algebra 1
FEE: None
This is a yearlong course that meets every other day. Honors Geometry is designed for students with very strong Algebra skills who master mathematical concepts quickly. Honors Geometry will study the same topics as regular Geometry, but will go into greater depth. Honors Geometry enables students to gain a basic understanding of geometric principles and problem solving through discovery and investigations. Topics include inductive and deductive reasoning, geometric terminology, algebra review, line and angle relationships, triangles and right triangle trigonometry, polygons, circles, similarity, area and volume, and the Pythagorean theorem. A scientific calculator is needed for this class. **Honors weighted credit for 9th and 10th graders only.**

**MA###A / MA###B**
**EXTENSIONS** (Not NCAA approved)
1.0 Elective Credit
PREREQUISITE: Teacher recommendation only.
FEE: None
Extensions provides students with extra assistance in Algebra I or Geometry in order to create a solid foundation for advancing their studies in mathematics. Students are recommended for this class by their teacher, or through application. Students must be actively engaged in their current math class in order to participate in this math extensions class. Students will receive a Pass/Fail grade for this course. **Teacher recommendation only.**

**MA118A / MA118B**
**INTERMEDIATE ALGEBRA** (Not NCAA approved)
1.0 Credit
PREREQUISITE: Algebra 1, Geometry & Teacher Recommendation
FEE: None
A yearlong class that meets every other day and bridges Algebra 1/Geometry and Algebra II. Students extend their learning through real-world application of algebraic, geometric, and statistical concepts. Topics include an in-depth study of families of functions (linear, quadratic, radical, exponential and rational), measures of central tendency, standard deviation, probability, combinations and permutations, integrated geometric problem solving, and basic trigonometry formulas (right triangle trigonometry, law of sines and law of cosines). **Teacher recommendation only.**
MA120A / MA120B  ALGEBRA 2
1.0 Credit
PREREQUISITE: Geometry or Geometry Honors
FEE: None
A continuation of the Algebra I and Geometry courses, topics include a short review of linear equations and inequalities, systems of equations and matrices, an in-depth look at quadratic functions, polynomial and rational functions, basic sequences and series, exponential functions, logarithmic functions, and rational functions. A graphing calculator is required to allow students to enhance their mathematical experience.

MA122A / MA122B  ALGEBRA 2 EXTENSION (Not NCAA approved)
1.0 Credit
PREREQUISITE: Geometry
FEE: None
Designed for students who struggled in Algebra or Geometry and need more time to master difficult mathematical concepts, this yearlong course meets every day and covers the same standards as Algebra 2. Topics include a short review of linear equations and inequalities, systems of equations and matrices, an in-depth look at quadratic functions, polynomial and rational functions, basic sequences and series, exponential functions, and logarithmic functions. A graphing calculator is required to allow students to enhance their mathematical experience. Students will receive a Pass/Fail grade for this course. Teacher recommendation only. Students recommended for this class must also register for MA120A & MA120B.

MA121A / MA121B  ALGEBRA 2 HONORS
1.0 Credit—weighted 4.5
PREREQUISITE: Geometry or Geometry Honors
FEE: None
Honors Algebra 2 is best suited for highly motivated students who desire a challenging and rigorous mathematical experience. This accelerated course covers all of the same material as regular Algebra 2 with the intent of preparing for students for Advanced Placement courses. Students go beyond the curriculum expectations of a standard course offering by increasing the depth, complexity, and problem solving. Topics include linear equations, systems of equations and matrices, quadratics, polynomial and rational functions, data analysis and probability, functions and operations, sequences and series, exponential functions, logarithmic functions, and rational functions. Students will need a graphing calculator for this course. Consult with your current math teacher before deciding between Algebra 2 and Honors Algebra 2. Honors weighted credit for 9th and 10th graders.

MA122  STATISTICS
0.5 Credit
PREREQUISITE: Geometry and Algebra 2 or Algebra 2 Honors (or concurrently in Algebra 2)
FEE: None
In this class, students will experience a comprehensive look at the way data affects our world. Topics will include probability, regression equations, standard deviation, the normal curve, and expected value. Students who like to work with large sets of numbers are encouraged to get a picture of the world of statistics. Students should take this one semester math class concurrently with a year long math class.
Mathematics

MA127 / MA122  TRIGONOMETRY & STATISTICS
1.0 Credit
PREREQUISITE: Algebra 2 or Algebra 2 Honors
FEE: None
Trigonometry: Focusing on graphing, analyzing, and applying the 6 trigonometric functions in radian and degree measures, students verify trigonometric identities, solve trigonometric equations, determine linear and angular velocities of rotating objects, use the Law of Sines and Cosines in non-right triangles, and use the unit circle to find exact values of trigonometric expressions. Students are exposed to properties of vectors and the trigonometric form of complex numbers. Students are expected to use trigonometric modeling to solve real world application problems. Students are expected to be proficient in the use of a graphing calculator. Statistics: A comprehensive look at the way data affects our world. Topics include probability, regression equations, standard deviation, the normal curve, and expected value. Students who like to work with large sets of numbers are encouraged to get a picture of the world of statistics.

MA149A / MA149B  PRE-CALCULUS WITH TRIGONOMETRY HONORS
1.0 Credit—weighted 4.5
PREREQUISITE: Algebra 2 OR Algebra Honors 2
FEE: None
This is a year long course where Pre-Calculus is the focal point for the first semester and advanced Trigonometry is the focal point for the 2nd semester. Students will be expected to apply the principles of pre-calculus to their work in trigonometry 2nd semester. The pace of this course is designed for students who like to be challenged mathematically. Topics covered include a brief review of Linear, Quadratic, and Polynomial functions, as well as compositions of functions. Students will work extensively with conic sections, sequences and series, rational functions, logarithmic functions, polar functions, and the six trigonometric functions with their inverses. Students will be expected to master the use of the unit circle, and delve deeply into applying trigonometry and precalculus to angles of elevation/depression, area/volume, harmonic motion, circular motion, and vector analysis. Honors weighted credit for 9th and 10th graders only.

MA520A / MA520B  AP STATISTICS
1.0 Credit—weighted 5.0
PREREQUISITE: Algebra 2
FEE: None
An in-depth study of statistics designed to prepared students to take the Advanced Placement test in Statistics. Students learn about exploratory analysis, experimental design, probability and statistical inference. Students use a statistical software package to analyze data and draw inferences from a group of data. This course prepares students for the Statistics Advanced Placement Exam.

MA500A / MA500B  AP CALCULUS AB
1.0 Credit—weighted 5.0
PREREQUISITE: Pre-calculus and Trigonometry
FEE: None
This course is designed for college bound students. This course prepares students for the Advanced Placement AB Test. Topics include limits and their properties, differentiation rules and instantaneous rate of change, antiderivatives, indefinite integration and applications of integration. The types of functions studied in the course include algebraic, rational, trigonometric and exponential functions. This course prepares students for the Calculus AB Advanced Placement Exam.
In order to graduate from Mead High School, students must earn 0.5 credit of Health and a total of 2.0 credits (4 one semester classes) of Physical Education during their freshman, sophomore, junior and senior years.

As a part of all Physical Education classes students will participate in pre and post fitness testing.

Physical Education assessments include:
- Cognitive
- Performance
- Skill

PE101 FITNESS 1: LIFE FITNESS
0.5 Credit
PREREQUISITE: None
FEE: $5 one time fee
An introductory-level course designed to explore a variety of health-related fitness options for improving and maintaining individual fitness levels. The goal is to give students both the knowledge and physical skills to develop and continue good lifetime habits. Each student will develop his/her own individualized personal fitness plans. Activities may include, but are not limited to: power walking, aerobics, circuit training, Zumba, Yoga and Pilates, and some weight training.

PE102 FITNESS 2: AEROBIC FITNESS
0.5 Credit
PREREQUISITE: Fitness 1 or Self-Defense/Conditioning
FEE: $5 one time fee
This class is designed for an intermediate-level student interested in fitness activities and increasing their overall fitness level through a variety of aerobic activities. Topics may include, but are not limited to: personal goal setting and reflection, nutrition and body composition; activities may include, but are not limited to: cardio-kickboxing/Tae-Bo, step/floor aerobics, Pilates, circuit and interval training, weight training, Zumba and other activities which require cardiovascular fitness/strength.

PE114 NET & TARGET
0.5 Credit
PREREQUISITE: None
FEE: $5 one time fee
This class includes sports and activities where a net, or a target, is used, and scoring is accomplished for your own territory. This class also includes basic fitness/conditioning pertinent to the sport/activity being covered. The student are expected to know basic rules and strategies field/court markings, player positions and officiating. Sports and activities covered in this class will be, but not limited to: Speedminton, Tennis, Volleyball, Golf, Frisbee golf, and Badminton.

PE113 INVASION & FIELD GAMES
0.5 Credit
PREREQUISITE: None
FEE: $5 one time fee
This class will include sports and activities where one team is trying to score on another team, or to “invade” their opponent’s territory to score. The class includes various areas of fitness/conditioning pertinent to the sport/activity being covered. The student are expected to know basic rules and strategies field/court markings, player positions and officiating. Sport and activities covered in this class will be, but not limited to: Basketball, Soccer, Flag football, Ultimate Frisbee, Lacrosse, Rugby, and Softball.

PE108 IRONWORKS 1
0.5 Credit
PREREQUISITE: None
FEE: $5 one time fee
This is an introductory-level course designed to familiarize students with weight room procedures, safety precautions, and various lifting techniques, strength training/muscular endurance through the use of free weights and machines. It may also include plyometric training, speed training, agility development and fitness activities.
Physical Education and Health

**PE109**
**IRONWORKS 2**
0.5 Credit
PREREQUISITE: Ironworks 1 or teacher approval.
FEE: $5 one time fee
This is an intermediate-level course designed to familiarize students with more advance weight lifting techniques. It includes emphasis on weightlifting, flexibility, running technique, agility, and speed training. This level course is strenuous; therefore, students must have a strong desire to increase overall body fitness and composition.

**PE131**
**SELF-DEFENSE / CONDITIONING**
0.5 Credit
PREREQUISITE: 10th - 12th grade
FEE: $5 one time fee
Students are introduced to the basic skills and knowledge of self-defense. This class is designed to empower individuals to develop the confidence they need to protect themselves from a potential violent encounter. This course includes, but is not limited to, a variety of escapes, defending against strikes and striking with your hands and feet. Students participate in various conditioning and training methods and are tested throughout the semester in the five components of physical fitness in addition to training skills. This course may be taken ONE time per school year. Students may only repeat this course with instructor approval.

**PE141**
**GAME ON**
0.5 Credit
PREREQUISITE: Invasion & Field or Net & Target and 10th – 12th grade
FEE: $5 one time fee
This class is designed for the student to experience a wide variety of dual, individual and team sports that encourage lifetime participation and activity. These sports will include but are not be limited to: Speedminton, Basketball, Flag Football, Golf, Soccer, Softball, Tennis, Ultimate and Volleyball. The courses will include knowledge of the sport safety practices, applications of game rules, skills, strategies and techniques.

**H100**
**HEALTH**
0.5 Credit
PREREQUISITE: 9th grade
FEE: $5 one time fee
All freshmen are required to take this course to meet graduation requirements. This course is designed to provide students with essential learning in the area of health. The expectation is that the course work will help students make informed decisions in regards to behavior that affect various aspects of health and well being. The major unit topics to be covered include physical and mental wellness, understanding sexuality (as outlined by Board of Education Policy), destructive behaviors and addictions, and safety and well being.
The St. Vrain Valley School District provides the opportunity for a student to waive up to 1.0 physical education credit. All students must complete two (2) physical education credits to graduate.

Students who maintain full-time student status during all four years of high school and meet all other graduation requirements may waive .5 physical education credit by successfully completing:

___ Two (2) St. Vrain Valley School District athletic programs at the varsity or junior varsity level (two different sports; same sport two seasons); or

___ 72 hours during one semester of an appropriate, pre-approved, structured, and supervised activity outside of the school district.

Students may waive an additional .5 for a total of one (1) physical education credit in this same manner. The activities to waive physical education credit may be met during any of a student’s four years.

A student may not waive physical education credit if they have failed any courses and/or are in the process of credit recovery to meet graduation standards.

Students must submit a written request for a waiver to their counselor beginning in January of their junior year.

Once the physical education waiver requirements have been met, the student will submit the application, time log, and written assessment to the building principal (including all required signatures) for verification and approval.

Whether or not a student has received a physical education waiver, they are still required to successfully complete 24.5 credits in order to earn their high school diploma.

The physical education waiver application may be acquired in the counseling office.
All Freshman will take the required Biology or Biology Honors course. If AP Environmental Science is taken as a freshman, students will also need to take a Biology class.

All sophomores will take the required Chemistry or Chemistry Honors. If AP Environmental Science or Geology are taken as a sophomore, students will also need to take a Chemistry class.

After Chemistry is completed, students in grades 11 & 12 can take any of the courses below as long as the prerequisites for each class have been met.

FULL YEAR SCIENCE CLASSES:
- Physics
- AP Physics 1
- AP Chemistry
- AP Environmental Science
- AP Biology
- AP Physics C
- Principles of Energy Science
- Energy Industry Practices

ONE SEMESTER SCIENCE CLASSES:
- Meteorology
- Forensic Science
- Anatomy and Physiology
- Geology
In order to graduate from Mead High School, students must earn 3.0 Science credits.

**GENERAL RECOMMENDATIONS:**

**Grade 9**
- Biology or Biology Honors

**Grade 10**
- Chemistry or Chemistry Honors

**Grade 11**
- Physics, AP Physics 1 or AP Chemistry

**Grade 9-10 Electives**
- AP Environmental Science
- Principles of Energy Science
- Energy Industry Practices (10-12)

**Grade 11 & 12 Electives**
- Anatomy & Physiology
- Principles of Energy Science
- Energy Industry Practices
- Geology
- Forensic Science
- Meteorology
- AP Biology
- AP Chemistry
- AP Environmental Science
- AP Physics 1
- AP Physics C

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**SC120A / SC120B**
**BIOLOGY**
1.0 Credit
PREREQUISITE: None
FEE: $10
A laboratory science course for the general-studies student. The emphasis is on the structure and function of living organisms and their environments. Topics include: cellular biology, biochemistry, patterns of inheritance, natural selection, ecology, diversity of life, and human systems. Students design, conduct, evaluate, and communicate about scientific investigations. Students develop skills in the care and use of the microscope, lab balance, and in the use of the metric system. The course includes inquiry-based investigations and dissections.

**SC121A / SC121B**
**HONORS BIOLOGY**
1.0 Credit—weighted 4.5
PREREQUISITE: None
FEE: $10
Topics include: biochemistry, cellular biology, patterns of inheritance, natural selection, ecology, diversity of life, and human systems. Students design, conduct, evaluate, and communicate about scientific investigations. This laboratory science class presents the student with opportunities for exploratory, open-ended scientific investigations. Students develop their skills in the care and use of the microscope, lab balance, and in the use of the metric system. Students perform inquiry based investigations and dissections in this course. Honors weighted credit.

**SC510A / SC510B / SC510C**
**AP BIOLOGY**
1.5 Credits—weighted 5.0
PREREQUISITE: Biology and Chemistry
FEE: $10
This course meets everyday for one semester and every other day for the other semester. This class is a college level Biology course designed to provide students with a comprehensive study of every aspect of Biology. Students are responsible for many classroom laboratory activities, including dissections and some independent research and papers. Lectures highlight some of the concepts, but students must be self-motivated, highly disciplined, and responsible for their own learning in order to succeed. This course prepares students for the Biology Advanced Placement Exam.

**SC240A or SC240B**
**ANATOMY & PHYSIOLOGY**
0.5 Credit
PREREQUISITE: Biology and Chemistry
FEE: $10
An academically rigorous elective laboratory science course builds on concepts learned in biology and chemistry. It will focus specifically on human anatomy and physiology. Through lectures, labs and activities students will learn how structures (anatomy) of the human body fit their function (physiology) to maintain homeostasis of the organism and continue the species. All twelve human body systems will be included, as well as types of tissue and cell chemistry. Emphasis is also be placed on healthcare and veterinary careers.
SC130A / SC130B  CHEMISTRY
1.0 Credit
PREREQUISITE: Algebra 1 completed
FEE: $10
A introductory lab-based science course where 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. The use of a scientific calculator is required.

SC131A / SC131B  HONORS CHEMISTRY
1.0 Credit—weighted 4.5
PREREQUISITE: Algebra 1 completed
FEE: $10
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. The use of a scientific calculator is required.

SC520A / SC520B / SC520C  AP CHEMISTRY
1.5 Credits—weighted 5.0
PREREQUISITE: Chemistry, Algebra 2
FEE: $10
This laboratory course meets everyday for one semester and every other day for the other semester. This class is designed to be equivalent to a year long, college freshman General Chemistry course and provides students with an intensive study of the basic aspects of General Chemistry. Students are responsible for numerous activities including labs and formal lab write-ups. This course prepares students for the Chemistry Advanced Placement Exam.

SC136A / SC136B  PRINCIPLES OF ENERGY SCIENCE
1.0 Credit
PREREQUISITE: None
FEE: $10
This rigorous full year inquiry and lab-based elective science course covers the following topics: 1.) Overview of Energy, 2) Thermodynamics, 3) Electricity and Magnetism, 4) Coal, 5) Petroleum (Oil and Gas), 6) Hydropower, 7) Geothermal, 8) Nuclear, 9) Solar, 10) Biomass, 11) Wind, 12) Consumption and Conservation. Additional topics may be covered as time allows.

SC137A / SC137B  ENERGY INDUSTRY PRACTICES
1.0 Credit
Fees: $10
PREREQUISITE: Principles of Energy Science
This elective science course (required for Energy Academy accreditation) provides a practical look at the energy industry. General topics include the history of the energy industry, as well as environmental, health and safety practices. Additional units include specific studies on electric power generation, transmission and distribution, oil and natural gas production, hydroelectric, nuclear, geothermal, solar, biomass and wind power. Guest speakers and field trips will feature prominently and OSHA Certification will be available.
### SC500A / SC500B  
**AP ENVIRONMENTAL SCIENCE**

**1.0 Credit—weighted 5.0**

**PREREQUISITE:** None (9th & 10th graders must be concurrently enrolled in Biology or Chemistry)

**FEE:** $10

This year-long lab-based science course provides students with the scientific concepts and methodologies required to understand the inter-relationships 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.

### SC230  
**FORENSIC SCIENCE LAB**

**0.5 Credit**

**PREREQUISITE:** Biology and Chemistry

**FEE:** $10

A laboratory science course designed for juniors and seniors who are interested in forensic science. 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 that serve as the basics for these techniques. Students 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.

### SC205  
**GEOLOGY**

**0.5 Credit**

**PREREQUISITE:** Biology

**FEE:** $10

For students who are interested in how our planet works and changes through time using the local geology as a laboratory. Topics include: minerals, mining, rock formation, landscape formation, plate tectonics and its effects on geothermal conditions. Lab work will include outdoor exploration and study. Students will apply geologic processes to National Parks.

### SC250  
**METEOROLOGY**

**0.5 Credit**

**PREREQUISITE:** Biology and Chemistry

**FEE:** $10

Lab-based course designed for juniors and seniors interested in examining the basic factors that determine the weather. An integrated science, Meteorology involves other disciplines such as oceanography and earth systems. Student will use real-time data to learn about atmospheric moisture, air pressure and circulation, temperature and precipitation. They will then apply this knowledge to weather forecasting and studies of extreme weather like thunderstorms, tornadoes and hurricanes.

### SC140A / SC140B  
**PHYSICS**

**1.0 Credit**

**PREREQUISITE:** Algebra I and concurrent enrollment in Geometry.

**FEE:** $10

This is a laboratory-oriented course, which includes aspects of the philosophy and the history of science for students who are interested in Physics. Topics covered will include a concept of motion, mechanics, light and electromagnetism, and models of the atom. This course seeks to develop an understanding of the basic principles and laws of physics though observation and experimentation.
SC532A / SC532B  
AP PHYSICS 1 
1.0 Credit—weighted 5.0 
PREREQUISITE: Chemistry, concurrent Algebra 2 enrollment 
FEE: $10 
Covering Newtonian mechanics (including rotational dynamics and angular momentum), work, energy, power, mechanical waves and sound, this course also introduces electric circuits. Students develop a deep conceptual understanding of the content by focusing on applying their knowledge through inquiry-based labs, in-depth explorations of topics, and 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 the Physics 1 Advanced Placement Exam.

SC535A / SC535B / SC535C  
AP PHYSICS C 
1.5 Credits—weighted 5.0 
PREREQUISITE: Completion of AP Calculus or concurrently enrolled in AP Calculus 
FEE: $10 
AP Physics Calculus Based is an advanced Physics course designed for students interested in pursuing engineering and other Physics related careers. The course is designed to prepare students to take both the AP Physics C Mechanics and the AP Physics C Electricity and Magnetism exams. Students are expected to apply calculus based mathematical relationships to explain and predict physical occurrences. Students conduct laboratory experiments throughout the course. This course prepares students for the Physics C Advanced Placement Exam.
9th Grade Social Studies
8th grade students may register for any World History/Geography class or AP Human Geography

- World History/Geography
- World History/Geography Honors
- Integrated World History/Geography
- Integrated World History/Geo Honors
- AP Human Geography (9th-12th grade)

10th Grade Social Studies
Students may register for any U.S. History class after completing any 9th Grade Social Studies class

- U.S. History
- U.S. History Honors
- Integrated U.S. History
- Integrated U.S. History Honors
- AP U.S. History (10th-12th grade)

11th Grade Social Studies
Students may register for U.S./CO Government or AP U.S. Government

- U.S./CO Government
- AP U.S. Government

Social Studies Electives

- AP Psychology
- AP Micro/Macro Economics
- AP Comparative Government
- Psychology
- Sociology
- Philosophy
- Film Studies
In order to graduate from Mead High School, students must earn a total of 3.0 credits of Social Studies, which must include:

- 1.0 credit of World Geography/History or AP Human Geography
- 1.0 credit of U.S. History or AP U.S. History
- 1.0 credit of U.S. / Colorado Government or AP U.S. Government

**GENERAL REQUIREMENTS:**

**Grade 9**
- World Geo/History
- World Geo/History Honors
- Integrated World Geo/History
- Integrated World Geo/History Honors
- AP Human Geography

**Grade 10**
- U.S. History
- U.S. History Honors
- Integrated U.S. History
- Integrated U.S. History Honors
- AP U.S. History

**Grade 11**
- U.S./CO Government
- AP US Government

**SOCIAL STUDIES ELECTIVES:**

**Grades 10, 11, 12**
- AP United States History

**Grades 11, 12**
- Philosophy
- Sociology
- Psychology
- Film Studies
- AP Psychology
- AP Macro - Economics
- AP Micro - Economics
- AP Comparative Gov. & Politics
- AP U.S. Government
- AP Human Geography

### Social Studies

**SS112A / SS112B**  
**INTEGRATED WORLD HISTORY/GEOGRAPHY**

**SS113A / SS113B**  
**INTEGRATED WORLD HISTORY/GEOGRAPHY HONORS**

1.0 Credit—Regular at 4.0  
1.0 credit—Honors weighted at 4.5

**PREREQUISITE:** None

**FEE:** None

For a comprehensive description and testimonials of these integrated courses, please see page 21. These popular courses are a fresh approach to a standard curriculum, integrating the content and Common Core Standards for World History/Geography and English 9. Each discipline enhances the other as students explore events and literature from around the world and throughout history. Students study past and contemporary cultures from around the world and will analyze major events and time periods in world history while closely studying a variety of literary works. Space in these courses is limited. Students enrolled in the honors course will prepare for further honors and Advanced Placement courses.

**SS110A / SS110B**  
**WORLD GEOGRAPHY/HISTORY**

1.0 Credit

**PREREQUISITE:** None

**FEE:** None

This is a course that incorporates the standards for World Geography and History as well as many of the skills and standards for English 9. World History/Geography focuses on three critical areas: (1) the use of historical method of inquiry to ask questions, evaluate primary and secondary sources and to interpret data; (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. In this class students study the early history of the world, prehistoric humans, ancient civilizations, the early modern era. Students also study the history and human geography of Africa, Asia, Latin America and Europe. Student products can include analysis and argumentative paragraphs and essays, short films, app-based projects, debates, Socratic Seminars, document-based questions and research projects as they develop essential skills in research, critical thinking, close reading, and analytical writing. Students are assessed in written, oral, and visual formats and will be expected to work both independently and in groups. In alignment with the Common Core Standards, students develop research skills, critical thinking skills, and reading, writing and speaking skills needed to be successful in future Social Studies and English courses as well as for school-wide curricula.

**SS111A / SS111B**  
**WORLD GEOGRAPHY/HISTORY HONORS**

1.0 Credit—weighted 4.5

**PREREQUISITE:** None

**FEE:** None

This is a rigorous course that incorporates the standards for World Geography and History as well as many of the skills and standards for English 9. This course is designed for students who desire a challenging, in-depth and accelerated study of Geography and World History. In this class students study the early history of the world, prehistoric humans, ancient civilizations, and the early modern era. Students also study the history and human geography of Africa, Asia, Latin America and Europe. Student products can include analysis and argumentative paragraphs and essays, short films, app-based projects, Socratic Seminars, debates, document-based questions and research projects as they develop essential skills in research, critical thinking, close reading, and analytical writing. In alignment with the Common Core Standards, this course teaches students to close-read and annotate complex, higher-level texts. This course prepares students for further honors and Advanced Placement courses.
SSS35A / SSS35B  AP HUMAN GEOGRAPHY
1.0 Credit—weighted 5.0
PREREQUISITE: None
FEE: None
This course meets and exceeds the standards for World Geography and History. It presents students with the curricular equivalent of an introductory college-level course in human or cultural geography. Content is presented thematically rather than regionally and is organized around the discipline’s main subfields: economic, cultural, political and urban geography. The approach is spatial and problem oriented. Case studies are drawn from all world regions, with emphasis on understanding both the world in which we live today, as well the historical events that have led us here.

Specific topics with which students engage include:

- problems of economic development and cultural change
- consequences of population growth, changing fertility rates, and international migration
- impacts of technological innovation on a various aspects of human life
- struggles over political power and control of territory
- conflicts over demands of ethnic minorities, the role of women, and the inequalities between developed and developing economies
- explanations of why location matters to agricultural land use, industrial development and urban problems

This course is a great place to start an AP track within the social studies department and/or to start an AP experience. AP Human Geography is open to all grade levels, and meets the 9th Grade Social Studies requirement. This course prepares students for the Human Geography Advanced Placement Exam.

SS122A / SC122B  INTEGRATED U.S. HISTORY
SS123A / SS123B  INTEGRATED U.S. HISTORY HONORS
1.0 Credit—Regular at 4.0
1.0 Credit—Honors weighted at 4.5
PREREQUISITE: None
FEE: None
For a comprehensive description and testimonials of the integrated courses, please see page 22.
This popular honors course is a fresh approach to a curriculum that integrates the content and Common Core Standards for United States History and English 10, while successfully meeting the unique learning needs of all learners in the class. The integrated program aims to extend and enrich the curriculum for students with intellectual curiosity and who desire to be challenged beyond the standard classroom environment. Students enrolled in the Honors course will prepare for further honors and Advanced Placement courses.

SS120A / SC120B  U.S. HISTORY
1.0 Credit
PREREQUISITE: World Geography/History
FEE: None
This course will meet the standards for United States History and will implement the skills of English 10. 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 nation. The course emphasizes twentieth century United States history and the contemporary world. In alignment with the Common Core Standards, this class teaches critical skills for success across all content areas throughout high school. Student products will include analysis and argumentative paragraphs and essays, app-based projects, debates, Socratic Seminars, document-based questions and research projects as they develop essential skills in research, critical thinking, close reading, and analytical writing. Topics include: American Ideals; Immigration, Industrialization and Reform; Imperialism and World War I; The Roaring 20’s and the Great Depression; World War II; The 1950s, Civil Rights and Cold War; The 1960s and Vietnam; and Contemporary America.
SS121A / SS121B  U.S. HISTORY HONORS
1.0 Credit—weighted 4.5
PREREQUISITE: World Geography/History
FEE: None

The Honors United States History course focuses on the three critical areas defined in the regular U.S. History course description, but is designed to challenge advanced students and to help prepare them to pursue AP social studies courses. At the Honors level, the class moves at an accelerated pace and students are expected to analyze, synthesize, and evaluate information in greater depth. Assessments include various types of formal writing, research projects, tests, paired text analysis, individual and group projects, presentations, and Document Based Question essays.

Emphasis is placed on the following skills to ensure students are prepared for AP courses:

- Use evidence to craft a credible persuasive argument
- Collect and evaluate data and evidence; conduct research drawn from multiple sources
- Analyze a variety of primary and secondary document genres
- Self-directed reading comprehension, annotation, and note-taking strategies
- Acquire and use sophisticated academic language
- Use cross-curricular and critical thinking to synthesize information
- Understanding and appreciating multiple perspectives to form more than one narrative of events
- Participation in academic conversation and seminar norms and awareness of deductive and inductive thinking processes
- Adherence to the post-secondary educational goals of the AP program that equip students with the skills necessary to thrive in the collegiate environment

Topics include: American Ideals; Immigration, Industrialization and Reform; Imperialism and World War I; The Roaring 20’s and the Great Depression; World War II; The 1950s, Civil Rights and Cold War; 1960s and Vietnam; and Contemporary America. In alignment with the Common Core Standards, this course teaches students to close-read and annotate complex, higher-level texts. Students who wish to pursue Advanced Placement courses should take this course.

SS510A / SS510B  AP U.S. HISTORY
1.0 Credit—weighted 5.0
PREREQUISITE: World Geography/History
FEE: None

The AP U.S. History course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. History. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students learn to assess historical materials—their relevance to a given interpretive problem, reliability, and importance—and to weigh the evidence and interpretations presented in historical scholarship. An AP U.S. History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format. This course will prepare students for the U.S. History Advanced Placement exam. **CU Succeed credit may be available for this course.**
SS130A / SS130B  
**U.S. AND COLORADO GOVERNMENT**  
1.0 Credit  
PREREQUISITE: U.S. History  
FEE: None  
This course is an introductory study of the structure and foundations of American government and will also parallel English 11. The course focus will be on the development of American Constitutional ideas, branches of government and their function, the development of Civil Liberties and Rights, and an examination of state and local government.

SSS05A / SSS05B  
**AP U.S. GOVERNMENT & POLITICS**  
1.0 Credit—weighted 5.0  
PREREQUISITE: U.S. History  
FEE: None  
Advanced Placement United States Government curriculum is rigorous in design offering a critical perspective and depth of study unlike that of an introductory American government course. Topics studied in this course include Constitutional underpinnings, political beliefs and behaviors, interests groups and mass media, creation of public policy, and civil rights and liberties. This course prepares students for the United States Government and Politics Advanced Placement Exam. **This year long course fulfills the social studies graduation requirements for U.S. and Colorado Government in 11th grade.**

SSS00A / SSS00B  
**AP COMPARATIVE GOVERNMENTS & POLITICS**  
1.0 Credit—weighted 5.0  
PREREQUISITE: U.S. History  
Comparative Government is a college freshman survey course that provides well-motivated students a conceptual knowledge of global issues by assessing six different political systems. The course illustrates the political life, cultures, and histories of a variety of countries. It also explains the differences in processes and policy outcomes and communicates to the students the importance if global political and economics changes. Students are expected to do homework every night as well as reading independently and motivating themselves to do well on the AP exam. This course is an elective social studies course that **does not meet** the graduation requirements for U.S. and Colorado Government. This course prepares students for the Comparative Government & Politics Advanced Placement Exam.

SSS25A/B  
**AP PSYCHOLOGY**  
1.0 Credit—weighted 5.0  
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; Bio-psychological; Cognitive; Clinical (Abnormal and Therapies); and Social Domain. Course evaluation is based on class participation, assessments and personal inventories, research, abstracts, and independent work. Additionally, students are expected to read material outside of class, participate in discussions, presentations, and evaluation of experiments. This course prepares students to take the Psychology Advanced Placement Exam.

SSS31 / SSS30  
**AP MICROECONOMICS and AP MACROECONOMICS**  
1.0 Credit—weighted 5.0  
PREREQUISITE: U.S./CO Government or AP US Government  
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 students for the Microeconomics and/or Macroeconomics Advanced Placement Examinations.
SS210      PHILOSOPHY
0.5 Credit
PREREQUISITE: 10-12 grade
FEE: None
This course will introduce students to how we look at and answer questions like: What is the meaning of life? How do you determine what is right and what is wrong? What is the role of religion and God in the world? What does it mean to say, “I think, therefore I am?” In addition to these, we will look at the principles of logic and the roots of philosophy. Students will be involved in discussions, writing exercises, and special projects to demonstrate what they have learned. It will be fun and will challenge students’ thinking.

SS235      SOCIOLOGY
0.5 Credit
PREREQUISITE: 10-12 grade
FEE: None
Sociology is the study of the origins, organization, institutions, and development of human society. The course will begin with a study of the foundations of Sociology by examining the founders, current approaches to studying society, and research methods. The course will then progress to an in depth study of social structure including subcategories such as culture, structure, and socialization. Demography, social inequality, education and family structure will also be analyzed. Review of literature, research, essays, Socratic seminars, simulations, and field studies will be used extensively as class activities and assessment tools.

SS220      PSYCHOLOGY
0.5 Credit
PREREQUISITE: 10-12 grade
FEE: None
This course offers students an opportunity to investigate human behavior and mental processes. The basic course addresses topics and issues relevant to high school students who want to know more about the following areas: History and Research Methods, Stress and Health, States of Consciousness (sleep and dreams), Intelligence, and Personality Perspectives. Weekly reading assignments from the text and various outside resources are required in addition to completing personal inventories.

LA212      FILM STUDIES
0.5 Credit
PREREQUISITE: 10-12 grade
FEE: None
This course is for students interested in studying the media of film. They will watch a variety of films and study the history of film, filmmaking techniques, the cultural influence of film, and genre, as well as how to respond to films critically. Students will also put some filmmaking technique into practice and learn some of the basics of video production by making project short films. This class is an elective credit. Parent/guardian permission is required.
Mead High School offers Mandarin Chinese, French, and Spanish. While taking a foreign language is not a requirement for high school graduation, two years of the same language is the minimum requirement for admission to many colleges/universities. Credit earned in a World Language class during the freshman, sophomore, junior, and senior year applies to the 9 credits of electives needed to graduate.

One level of language instruction is designed to be completed in a year. Whenever possible, study of a World Language should continue without interruption. Over the course of a student’s high school career, the chance to take more than one language is possible and encouraged.

World Language classes are academic elective classes. Students can expect regular homework. Commitment to daily study, memorization, and practice is a must. Because World Language classes are considered academic electives and require the mastery of sequential material, a grade of C or better is recommended to advance to the next level.

**World Languages**

**WL141A / WL141B**  
**MANDARIN CHINESE 1**  
1.0 Credit  
**PREREQUISITE:** None  
**FEE:** None  
This course is an introduction to the Chinese language and culture. It will focus on the four basic language skills: listening, speaking, reading, and writing, with instructional emphasis on conversation. Students learn basic vocabulary words, sentence structures and grammar associated with speaking Chinese. Students also learn some basic information about China and important Chinese holidays. They learn to write Chinese calligraphy and do some simple Chinese handicrafts such as paper-cutting. By the end of the year students are able to ask and answer basic formulaic questions and communicate about themselves and their likes and dislikes. Students are also be exposed to Chinese cuisine.

**WL142A / WL142B**  
**MANDARIN CHINESE 2**  
1.0 Credit  
**PREREQUISITE:** Mandarin Chinese  
**FEE:** None  
For students who have successfully completed Chinese I, this course reinforces the basic language skills and further develops students’ ability to communicate in Chinese. Students are expected to more complicated grammatical structures of the Chinese language. Students expand their knowledge of previous topics covered in Chinese I and learn more topics used in daily life which include. Students continue to communicate and participate in listening, speaking, reading and writing about life in a Chinese-speaking country. They learn more about China and Chinese culture. Students will also be exposed to more Chinese cuisine.

**WL143A / WL143B**  
**MANDARIN CHINESE 3**  
1.0 Credit  
**PREREQUISITE:** Mandarin Chinese 2  
**FEE:** None  
Students expand their understanding and proficiency in Chinese Language and Culture with an increased emphasis on speaking and reading along with listening and writing. Students expand their vocabulary and grammar base as they learn about leisure activities, cultural events, social communication, customs and cuisine.

**WL144A / WL144B**  
**MANDARIN CHINESE 4**  
1.0 Credit  
**PREREQUISITE:** Mandarin Chinese 3  
**FEE:** None  
Mandarin Chinese 4 further develops the students’ proficiency in all language skills: speaking, reading, listening and writing. Broader and deeper aspects or Chinese culture and modern life are discussed. Business Chinese and college level materials prepare students for the outside world.

**WL101A / WL101B**  
**FRENCH 1**  
1.0 Credit  
**PREREQUISITE:** None  
**FEE:** None  
This course is designed for students who desire an introduction to a second language and culture. Its intent is to expose students to the four basic language skills: listening, speaking, reading, and writing, with instructional emphasis on conversation. Students learn basic vocabulary words, sentence structure and grammar associated with speaking French which includes: weather, dates, time, numbers, food, parts of the body, colors, clothing, family, and travel. By the end of the year, students are able to ask and answer basic formulaic questions and communicate about themselves, their likes and dislikes. Students are also be exposed to French cuisine.
### World Languages

#### WL102A / WL102B  
**FRENCH 2**  
1.0 Credit  
**PREREQUISITE:** French 1  
**FEE:** None  
For students who have successfully completed French 1, this course reinforces the basic language skills and further develops the student’s ability to communicate in a foreign language. Students are expected to know the 3 most common regular present tense verb endings and other grammatical structures. Students expand their knowledge of previous topics covered in French 1. Students are expected to communicate and participate in listening, speaking, reading and writing about life in a French-speaking country. Students build upon previous knowledge in order to expand their language skills to include past and future tenses. They will learn more about France and other French-speaking countries. Students are also be exposed to French cuisine.

#### WL103A / WL103B  
**FRENCH 3**  
1.0 Credit  
**PREREQUISITE:** French 2  
**FEE:** None  
French 3 has an increased emphasis in reading and writing. Strong reading skills are desired. Students continue expand their understanding and proficiency in the French language and its cultural. There is an increased emphasis on ability to narrate past tense events, conditional verb tenses, grammar and reading. Students expand their vocabulary knowledge of leisure activities, cultural events, social groups, French social customs and French media. They read authentic short stories in French and learn more detailed information about France and other French-speaking countries in North and West Africa. Students are also be exposed to French cuisine.

#### WL104A / WL104B  
**FRENCH 4**  
1.0 Credit  
**PREREQUISITE:** French 3  
**FEE:** None  
French 4 has an increased emphasis in speaking and reading comprehension. Strong reading skills are desired. Students continue to expand their understanding and proficiency in the French language and culture. There is an increased emphasis on ability to narrate past tense events using the passé compose, l’imparfait and the subjonctif.

#### WL151A / WL151B  
**SPANISH 1**  
1.0 Credit  
**PREREQUISITE:** None  
**FEE:** None  
Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. This communication is evidenced in all four language skills - listening, speaking, reading and writing - with emphasis on the ability to communicate orally and in writing. By the end of the year, students should be proficient enough to make purchases, order food, and carry on simple conversations about hobbies, sports, families, classes, and other basic events of everyday life. Students also learn about Spanish cultures through readings, videos, art, music, and class discussions.
WL152A / WL152B  SPANISH 2
1.0 Credit
PREREQUISITE: Spanish 1
FEE: None
Students continue to develop proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing. The course includes an expansion of material covered in the first year and the introduction of new vocabulary, grammar structures, and culture. Using more complex grammar patterns of communication, students will be able to talk about the past, tell stories, and explore travel topics. Students continue to learn about Spanish cultures through readings, videos, music, art, and class discussions.

WL153A / WL153B  SPANISH 3
1.0 Credit
PREREQUISITE: Spanish 2
FEE: None
Spanish 3 provides students the opportunity to synthesize the knowledge and skills acquired at previous levels while continuing the development of the four basic skills: listening, speaking, reading, and writing. Extended vocabulary is introduced and more complex grammar structures are presented. By the end of the year, students are able to express themselves in more sophisticated ways as well as to expand their understanding of the spoken and written language. Although speaking and listening skills are paramount, there is an increased emphasis on reading and writing. Students continue to learn about Spanish cultures through readings, videos, art, music and class discussions.

WL154A / WL154B  SPANISH 4
1.0 Credit
PREREQUISITE: Spanish 3
FEE: None
Students advance their Spanish skills through authentic literature, film, and other relevant media sources. They develop more sophisticated communication skills in all four areas – listening, speaking, reading and writing – with emphasis on the ability to interact orally and in writing. Students continue an in-depth study of more complex language structures encouraged in the first three years of language study.
The College Board’s AP Capstone is an innovative and engaging college-level program for high school students that complements and enhances discipline-specific AP courses.

It’s built on two new courses—AP Seminar and AP Research—that immerse students in the practice of critical skills needed to distinguish themselves in college and life.

AP Capstone is the pinnacle of the high school experience, encouraging a passion for learning and transforming students into curious, collaborative, and independent thinkers with skills that are valued and sought after by colleges and universities.

See page 19 for specific details about AP Capstone.

### AP Seminar

**MS505A / MS505B**  
**AP SEMINAR**  
1.0 Credit  
**PREREQUISITE:** 10-12 grade. Application required.  
**FEE:** TBD  
In this foundational course, typically taken in grade 10 or 11, students develop and strengthen analytic and inquiry skills, exploring two to four relevant issues chosen by the student and/or teacher. Students learn to consider an issue from multiple perspectives, evaluate the strength of an argument, and make logical, fact-based decisions. Students will question, research, explore, pose solutions, develop arguments, collaborate, and communicate using various media. Themes that allow for deep exploration based on student interests, local and/or civic issues, global or international topics, and concepts from other AP courses are typically selected. For example, students might explore the question of whether national security is more important than a citizen’s right to privacy; or whether genetic engineering is a benefit to society. During the course, students complete a team project, an individual paper and presentation, and take a written final exam. The AP Seminar Exam score is based on all three components and is reported on the standard 1–5 AP scoring scale.

### AP Research

**MS510A / MS510B**  
**AP RESEARCH**  
1.0 Credit  
**PREREQUISITE:** 11-12 grade, AP Seminar and application. **Not available until 2017-2018**  
**FEE:** TBD  
The second course in the AP Capstone experience allows students to design, plan, and conduct a year-long research-based investigation on a topic of individual interest. Through this inquiry and investigation, students demonstrate the ability to apply scholarly understanding to real-world problems and issues. Students further the skills developed in AP Seminar by understanding research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information to build, present, and defend an argument. Students may choose to:

- Dig deeper into a topic studied in an AP course
- Work across academic areas with an interdisciplinary topic
- Study a new area of interest, perhaps one for further study at the college level

At the end of the research investigation, students submit an academic thesis paper of about 5,000, present their thesis, and orally defend their work. The AP Research Exam score is based on the paper, presentation, and defense, and is reported on the standard 1–5 AP scoring scale.
### Energy Academy

#### SC136A / SC136B
**PRINCIPLES OF ENERGY SCIENCE**

- **1.0 Credit**
- **PREREQUISITE:** None
- **FEE:** $20

This rigorous full year inquiry and lab-based elective science course covers the following topics: 1) Overview of Energy, 2) Thermodynamics, 3) Electricity and Magnetism, 4) Coal, 5) Petroleum (Oil and Gas), 6) Hydropower, 7) Geothermal, 8) Nuclear, 9) Solar, 10) Biomass, 11) Wind, 12) Consumption and Conservation. Additional topics may be covered as time allows.

#### SC137A / SC137B
**ENERGY INDUSTRY PRACTICES**

- **1.0 Credit**
- **PREREQUISITE:** Principles of Energy Science
- **FEE:** $20

Elective science course (required for Energy Academy accreditation) provides a practical look at the energy industry. General topics include the history of the energy industry, as well as environmental, health and safety practices. Additional units include specific studies on: electric power generation, transmission and distribution, oil and natural gas production, hydroelectric, nuclear, geothermal, solar, biomass and wind power. Guest speakers and field trips will feature prominently and OSHA Certification will be available.

#### PSS11
**GIS 205—GIS APPLICATIONS**

- **0.5 credit**
- **Front Range Community College**
- **PREREQUISITE:** 11th and 12th grade only. See your counselor for more information.
- **FEE:** College fees & textbooks (SVVSD will pre-pay tuition for approved college courses)

Develop competency in web based geospatial information technologies. This course introduces students to concepts and processes of software based geospatial services to deliver geospatial information over networks. The course provides a comprehensive discussion of theory and applied technology of GIS software information services as well as integration of geospatial services into GIS applications. Three college credits. **See page 67 for more details about Concurrent Enrollment classes.**
In order to graduate from Mead High School, students must earn a total of one-half (.5) credit of Fine Arts credit during their freshman, sophomore, junior or senior years. The Fine Arts credit may be earned by taking a one-semester class chosen from Art, Music or Theatre. Additional Art, Music and Theater classes will count toward the Elective category for graduation requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Prerequisite</th>
<th>Fee</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A105</td>
<td>BEGINNING CERAMICS</td>
<td>0.5</td>
<td>None</td>
<td>$25</td>
<td>This course will provide a basic study of ceramics using stoneware 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.</td>
</tr>
<tr>
<td>A107</td>
<td>ADVANCED CERAMICS</td>
<td>0.5</td>
<td>Beginning Ceramics</td>
<td>$25</td>
<td>This course provides an in-depth study of ceramics using stoneware clay. Students build on previous skills and produce ceramic ware by exploring various techniques that may include hand building, wheel throwing, glazing, and alternative firing techniques. Students are expected to produce high quality projects. This class is recommended for students who excel in Ceramics. 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” to their work. In addition to work created in class, students will prepare their work for art showings.</td>
</tr>
<tr>
<td>A110</td>
<td>BEGINNING DRAWING</td>
<td>0.5</td>
<td>None</td>
<td>$25</td>
<td>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 &amp; ink, color pencil.</td>
</tr>
<tr>
<td>A112</td>
<td>ADVANCED DRAWING</td>
<td>0.5</td>
<td>Beginning Drawing</td>
<td>$25</td>
<td>This course covers more advanced skills not possible at the beginning level. Experimentation in additional drawing materials and techniques are covered, such as: perspective drawing, physical anatomy, figure drawing, pastels, pen &amp; ink. This course is recommended for students who wish to expand their art portfolio. 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 “voice” to 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 prepare their work for showings.</td>
</tr>
<tr>
<td>A116</td>
<td>BEGINNING PAINTING</td>
<td>0.5</td>
<td>None</td>
<td>$25</td>
<td>Students explore basic painting techniques: including color theory, color wheel, value scales, use of brushes, preparing canvas, paint application, teacher-directed painting, and additional projects. Several paintings will be completed over the semester.</td>
</tr>
</tbody>
</table>
A118 ADVANCED PAINTING
0.5 Credit
PREREQUISITE: Beginning Painting
FEE: $25
Advanced Painting builds on the skills and knowledge acquired in Beginning Painting and is recommended for those students who want to expand their individual interest and art portfolio. Advanced techniques and mixed media will be explored. Students will focus on developing their own style to produce original and high quality work. 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 are encouraged to develop a personal direction or “voice” to 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 prepare their work for showings.

A124 BEGINNING SCULPTURE
0.5 Credit
PREREQUISITE: None
FEE: $25
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 principals, the student will apply additive, subtractive, modeling, and assemblage techniques. Media projects include but are not limited to: plaster, wood, paper, and clay.

A126 ADVANCED SCULPTURE
0.5 Credit
PREREQUISITE: None
FEE: $25
This class is recommended for students who excel in Sculpture. Students who take this course should have a high level of motivation, diligence, commitment, and independence. Students are encouraged to develop a personal direction or “voice” to their work. In addition to work created in class, students are expected to work outside class time, participate in critiques and discussions, complete daily exercises to advance skills, maintain a sketch book and prepare their work for showings. Students are using higher level sculpting techniques. Students may have the opportunity to work with clay, stone, wood, and metals. Commitment and willingness to think critically and creatively are essential.

CTE111 BEGINNING DIGITAL PHOTOGRAPHY
0.5 Credit
PREREQUISITE: None
FEE: $25
Digital Photography focuses on understanding the basic operations and functions of the digital camera and the manipulation of its settings to achieve a specific result. Students will learn about photographic elements of art and principles of design, composition, and lighting. They explore the history of photography, learning about its scientific and technological developments, important innovators in the field, and relevance within diverse cultural contexts. Students write and speak about aesthetic, technical and expressive qualities in a photograph, learning to critique their own and others work. Students learn image techniques and digital manipulation using Adobe Photoshop, teaching them how to archive, organize and optimize their photographs for print or web purposes. Students learn how to manage and creatively alter digital images as well as critically analyze the use of visual media as a means of communication in our society today. They are provided a greater level of autonomy, expected to pursue their own interests and develop an individual voice. Students explore the significance of photography with in the larger context of the art word, and learn about the critical and varied application it has to the modern working world.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit</th>
<th>Fee</th>
<th>Prerequisite</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A128</td>
<td>BEGINNING STUDIO ART</td>
<td>0.5</td>
<td>$25</td>
<td>Must have completed a Beginning and an Advanced class for one discipline and Teacher approval.</td>
<td>Offering an opportunity for advanced students to work on individual techniques and approaches using traditional 2D and 3D materials in a structured class setting. Students are assessed based on the number of finished pieces produced in a specific time and in participation in class critiques. This class is for the highly motivated art student who enjoys a challenging high level course.</td>
</tr>
<tr>
<td>A505A / A505B</td>
<td>AP STUDIO ART 2D</td>
<td>1.0</td>
<td>$50</td>
<td>Advanced Drawing or Advanced Painting. Teacher approval required.</td>
<td>Recommended for students who excel in various 2-D art techniques and media. Students participate in critiques and discussions, complete daily exercises to advance skills, maintain a sketch book and prepare their work for showings. To obtain college credit, students will prepare and submit an essay and portfolio that will be concentrated on three sections: Quality, Breadth and Concentration. This course prepares students for the 2D Studio Art Advanced Placement Exam.</td>
</tr>
<tr>
<td>A510A / A510B</td>
<td>AP STUDIO ART 3D DESIGN</td>
<td>1.0</td>
<td>$50</td>
<td>Advanced Ceramics or Advanced Sculpture. Teacher approval required.</td>
<td>Recommended for students who excel in various 3-D art techniques and media. Students participate in critiques and discussions, complete daily exercises to advance skills, maintain a sketch book and prepare their work for showings. Students are encouraged to develop a personal direction or “voice” in their work. To obtain college credit students will prepare and submit an essay and portfolio that will concentration on three sections: Quality, Breadth and Concentration. This essay and portfolio are due in the spring. This course prepares students for the 3D Studio Art Advanced Placement Exam.</td>
</tr>
</tbody>
</table>
In order to graduate from Mead High School, students must earn a total of one-half (.5) credit of Fine Arts credit during their freshman, sophomore, junior or senior years. The Fine Arts credit may be earned by taking a one-semester class chosen from Art, Music or Theatre. Additional Art, Music and Theater classes will count toward the Elective category for graduation requirements.

**Fine Arts—Drama**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit</th>
<th>PREREQUISITE</th>
<th>FEE</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA400</td>
<td>DRAMA 1 (INTRODUCTION)</td>
<td>0.5</td>
<td>None</td>
<td>None</td>
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<tr>
<td></td>
<td>This course provides an introductory experience</td>
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<td></td>
<td>in drama and live theatre. Its intent is to</td>
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<td></td>
<td>acquaint the students with basic acting</td>
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<td></td>
<td>techniques in order to develop self-confidence,</td>
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<td>performance skills, and an appreciation for</td>
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<td>live theatre as an art form. Students gain a</td>
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<td></td>
<td>basic understanding of the history and</td>
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<td></td>
<td>development of drama, including improvisation,</td>
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<td></td>
<td>pantomime, stage movement, blocking, voice and</td>
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<td>gesture development, and basic stage terms.</td>
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<td></td>
<td>Students will study, analyze and perform</td>
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<td></td>
<td>scenes and full-length plays. **This course is</td>
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<tr>
<td></td>
<td>content-specific and may not be repeated.</td>
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<tr>
<td>LA401</td>
<td>DRAMA 2 (PRODUCTION)</td>
<td>0.5</td>
<td>Audition and Drama 1 or concurrent</td>
<td>None</td>
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<tr>
<td></td>
<td>enrollment in Drama 1</td>
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<td>Drama students who wish to become involved in</td>
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<td></td>
<td>the school fall production must enroll in this</td>
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<td></td>
<td>course through auditions (for dramatic roles)</td>
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<td></td>
<td>and application (for technical roles). This</td>
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<td></td>
<td>course includes an in-depth study, design,</td>
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<td></td>
<td>rehearsal, and performance of a school play.</td>
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<td></td>
<td>As a cohesive unit, the students in this class</td>
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<td></td>
<td>will work through all aspects of drama</td>
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<td>production including acting, blocking, directing,</td>
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<td>publicity, lighting, sound, set design, and set</td>
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<td>construction. The course culminates in the</td>
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<td>production of a play in December. A grade will</td>
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<td>be determined by participation, performance,</td>
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<td></td>
<td>and written work (evaluations, journals,</td>
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<td>reflections, reviews, etc.) Most work will</td>
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<td>take place during the class, but students will</td>
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<td></td>
<td>be required to participate outside of class</td>
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<td>time in November, in preparation for the</td>
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<td>December show. Requirement of out of class</td>
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<td>participation will depend on the size of the</td>
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<td>students’ role in the production. Students</td>
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<td>will be given detailed schedules at the</td>
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<td>beginning of the semester and every effort will</td>
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<td>be made to work with other school related</td>
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<td>activity schedules. Students will sign</td>
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<td>contracts that outline their levels of</td>
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<td>commitment at the beginning of the semester.</td>
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<td><strong>This course may be repeated.</strong></td>
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<tr>
<td>CTE9961</td>
<td>BASIC STAGE TECHNOLOGY</td>
<td>0.5</td>
<td>Application</td>
<td>None</td>
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<td>This production course is designed for students</td>
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<td></td>
<td>who enjoy working with technical equipment</td>
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<td></td>
<td>related to stage and theatre. Students</td>
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<td>experience all areas of working a show:</td>
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<td>safety, sound, light-ing designs, lighting</td>
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<td>operation, and house management. Students also</td>
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<td>aide in the research, design, and building of</td>
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<td>scenery. Students concentrate on the major</td>
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<td>areas of theater technology, production, and</td>
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<td>performance and will gain valuable behind-the-</td>
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<td></td>
<td>scenes stage experience through the production</td>
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<td>of the Spring Play. Three to four weeks of</td>
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<td>afternoon and evening work are required in</td>
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<td>addition to class attendance. This class is</td>
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<td>only offered during the spring semester. **</td>
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<td></td>
<td>Students will earn Practical Arts credit for</td>
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<td></td>
<td>Basic Stage Technology**.</td>
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</tbody>
</table>
In order to graduate from Mead High School, students must earn a total of one-half (.5) credit of Fine Arts credit during their freshman, sophomore, junior or senior years. The Fine Arts credit may be earned by taking a one-semester class chosen from Art, Music or Theatre. Additional Art, Music and Theater classes will count toward the Elective category for graduation requirements.

Students who enroll as members of the music ensembles are involved in an educational venture, which holds high standards of performance and high expectations of its participants. Singers/musicians will be active members in the continuous quest for musical excellence.

**INSTRUMENTAL MUSIC ELECTIVES:**
- Advanced Jazz Band
- Concert Band
- Symphonic Band
- Percussion Ensemble
- Concert Orchestra
- String Orchestra
- Symphonic Orchestra
- Guitar 1
- Guitar 2
- Band (Studio Band)
- Orchestra (Studio Orchestra)

**VOCAL MUSIC ELECTIVES:**
- Men’s Choir
- Women’s Choir
- Chamber Singers
- Women’s Ensemble
- Acappella Jazz Choir

**OTHER MUSIC ELECTIVES:**
- Music Technology 1
- AP Music Theory
- History of Rock and Roll

### MU159A / MU159B MEN’S CHOIR
1.0 Credit  
**PREREQUISITE:** Enthusiasm for singing  
**FEE:** $20

Men’s Choir is an entry-level choral ensemble designed to develop musicianship skills and vocal technique. This ensemble performs several concerts a year, attendance is required for all performances. Focus is placed on basic musical skills and music literacy. Students learn a wide variety of music from different cultures and time periods. Participation and development of singing skills will be emphasized in daily rehearsals.

### MU166A / MU166B WOMEN’S CHOIR
1.0 Credit  
**PREREQUISITE:** Enthusiasm for singing  
**FEE:** $20

Women’s Choir is an entry-level choral ensemble designed to develop musicianship skills and vocal technique. This ensemble performs several concerts a year and attendance is required for all performances. Focus will be placed on basic musical skills and music literacy. Students learn a wide variety of music from different cultures and time periods. Participation and development of singing skills will be emphasized in daily rehearsals.

### MU155A / MU155B CHAMBER SINGERS
1.0 Credit  
**PREREQUISITE:** Audition and 10th-12th grade  
**FEE:** $20

Chamber choir is an advanced level choral ensemble for both men and women. It is a small ensemble designed for highly experienced singers. This group will focus on advanced music literacy and theory concepts with an emphasis on challenging traditional choral music. These pieces come from a wide variety of cultures and time periods. Participation and development of healthy singing will be emphasized in daily rehearsals. This group performs at several concerts throughout the year and possibly have the opportunity to travel to festivals and competitions. Attendance is required at all of these events.

### MU167A / MU167B (Advanced) WOMEN’S ENSEMBLE
1.0 Credit  
**PREREQUISITE:** Audition and 10th-12th grade  
**FEE:** $20

Women’s Ensemble is an advanced level choral ensemble designed for Mead’s experienced female singers. The ensemble will focus on advanced music literacy and theory concepts. Students learn a wide variety of music from different cultures and time periods. Participation and development of singing is emphasized in daily rehearsals. This group performs at several concerts throughout the year and possibly have the opportunity to travel to festivals and competitions. Attendance is required at all of these events.

### MU150A / MU150B ACAPELLA JAZZ CHOIR
1.0 Credit  
**PREREQUISITE:** Audition and concurrent enrollment in a performance ensemble. 10th-12th grade  
**FEE:** $20

Acappella/Jazz Choir is a small ensemble group consisting of Mead High School’s strongest vocalists. This ensemble will focus more on contemporary music, including (but not limited to) jazz, showtunes, pop, and contemporary a cappella. They perform a minimum of 4 concerts per year, as well as, additional community and school functions. Membership is audition based and a yearlong commitment.
### MU104A / MU104B  
**CONCERT BAND**

1.0 Credit  
**PREREQUISITE:** Teacher recommendation  
**FEE:** $70  
Concert Band is a yearlong class. Concert Band is a performing ensemble that focuses on performing the highest-level music at any level. Students learn challenging music as well as basic music theory and history. Improving skills and a commitment to the ensemble are a priority. Several concerts will be performed through the year. Attendance for all performances is required. Concert Band will participate in marching band during the fall.

### MU113F / MU113S  
**SYMPHONIC BAND**

1.0 Credit  
**PREREQUISITE:** Audition  
**FEE:** $70  
The Symphonic Band represents a group of advanced musicians who will perform a wide variety of high quality literature. This ensemble will perform at numerous concerts, festivals, and clinics throughout the year. This class provides a strong emphasis on building individual musical skills, creating well-rounded musicians, and the experience of making great music with peers of similar ability. The symphonic band participates in marching band activities during the fall.

### MU109A / MU109B  
**PERCUSSION ENSEMBLE**

1.0 Credit  
**PREREQUISITE:** Audition  
**FEE:** $20  
This class is designed for the serious percussionist who wishes to study advanced high school and college level percussion ensemble repertoire. Students 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 is required.

### MU107A / MU107B  
**ADVANCED JAZZ BAND**

1.0 Credit  
**PREREQUISITE:** Audition and concurrent enrollment in another ensemble  
**FEE:** $20  
In Advanced Jazz Band, students improve basic improvisational skills, while learning to play in a vast array of musical styles. Improving skills and commitment to the ensemble are a priority. Several concerts are performed throughout the year. Attendance for all concerts is required. All instruments are encouraged to audition.

### MU133A / MU133B  
**CONCERT ORCHESTRA**

1.0 Credit  
**PREREQUISITE:** Teacher recommendation  
**FEE:** $70  
Orchestra is a performance group open to all students who have previous experience in playing violin, viola, cello or string bass. In addition, students are expected to: increase development of individual playing skills, learn the disciplined concentration that is involved in the study and performance of music, experience creativity, become a contributing member of a successful performing group, share in that group’s achievement, and develop a lifelong appreciation of music. This is a performance-based class, which includes several concerts throughout the year. Attendance at all performances is required.

### MU131A / MU131B  
**STRING ORCHESTRA**

1.0 Credit  
**PREREQUISITE:** Audition  
**FEE:** $70  
The Mead High School String Orchestra represents the excellence of the Mead Orchestra program through higher-level performances, contests/festivals and community/school events. Students continue to develop musicianship skills while learning higher-level string orchestra music and chamber music. This course may be repeated for general elective credit. Students in String Orchestra may opt to concurrently enroll in Symphonic Orchestra. Attendance at all performances is required.
**MU132A / MU132B**  
**SYMPHONIC ORCHESTRA**  
1.0 Credit  
**PREREQUISITE:** Audition  
**FEE:** $70  
Symphonic Orchestra is comprised of string, woodwind, brass and percussion players that represents the excellence of the Mead Instrumental Music program through higher-level performances, contests/festivals and community/school events. Students develop musicianship skills while learning symphonic literature. Student may opt to concurrently enroll in String Orchestra or Symphonic Band. Attendance at all performances is required. This course may be repeated.

**MU200**  
**GUITAR 1**  
0.5 Credit  
**PREREQUISITE:** Students must have their own acoustic guitar and bring it to class.  
**FEE:** $10  
Ever want to learn guitar or play in a band, but have little or no musical experience? Here is your chance to bring out that inner rock star. In this course, students concentrate on basic guitar performance techniques. They learn varying guitar styles; including classical, blues, and rock. Students learn how to read and write musical notation, chord symbols, and tablature. Upon completion of this class, students will be able to perform simple rock progressions, melodies, and fingerpicking techniques. Students are expected to participate on and in class recital at the end of the semester. Electric guitars are fine to use at home, but not in class.

**MU205**  
**GUITAR 2**  
0.5 Credit  
**PREREQUISITE:** Completion of Beginning Guitar or teacher recommendation. Students must have their own acoustic guitar and bring it to class.  
**FEE:** $10  
Guitar 2 expands upon concepts learned in Guitar 1. Students continue to hone their guitar skills by reading and writing musical staff and tab notation, playing in varying styles, composing their own music, and expanding upon their musical experience in Guitar. Upon completion of this class, students are able to perform rock progressions, melodies, and fingerpicking techniques. Students are expected to participate in an in class recital at the end of the semester. Electric guitars are fine to use at home, but not in class.

**MU101A / MU101B**  
**BAND (Studio Band)**  
1.0 Credit  
**PREREQUISITE:** Enthusiasm for playing a band instrument. Grades 9-12.  
**FEE:** $20  
The Studio Band is a one-year course designed for musicians of all ability levels. Students wishing to join band for the first time, return to band or, learn a new instrument are encouraged to join. Students review and expand upon basic skills such as scales, rhythms, and music theory. The main focus is learning, reading, and performing band literature at a high level. The Studio Band performs a minimum of two evening concerts per year and is assigned selected home athletic events to perform in with members from the other MHS bands. Additionally, the Studio Band performs for at least one music festival per year.

**MU130A / MU130B**  
**ORCHESTRA (Studio Orchestra)**  
1.0 Credit  
**PREREQUISITE:** Enthusiasm for playing an orchestra instrument (violin, viola, cello, bass). Grades 9-12.  
**FEE:** $20  
The Studio Orchestra is a one-year course designed for musicians of all ability levels. Students wishing to join orchestra for the first time, return to orchestra after time away, or learn a new string instrument are encouraged to join. The main focus will be on learning, reading, and performing orchestra literature at a high level while learning and reviewing basic skills. The Studio Orchestra performs a minimum of two evening concerts per year. Additionally, the Studio Orchestra performs for at least one music festival per year.
Fine Arts—Music

MU500A / MU500B  AP MUSIC THEORY
1.0 Credit—weighted 5.0
PREREQUISITE: One semester of music or teacher approval.
FEE: $20
This Advanced Placement class is for the advanced music student. 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 students for the Music Theory Advanced Placement Exam.

MU215  MUSIC TECHNOLOGY
0.5 Credit
PREREQUISITE: None
FEE: None
Ever wonder how music gets to your iPod, or how mp3’s came to be? Music technology is the class that helps answer these questions. In this class, students explore the creative and practical aspects of sound reinforcement, recording, music production, music technology history, electronic music history, and jobs within the music industry. Students are working in hands-on environments to create all of their projects. Some musical knowledge will be needed, but advanced musicianship is not a requirement. Students will earn Practical Arts credit for Music Technology.

MU210  HISTORY OF ROCK AND ROLL
0.5 Credit
PREREQUISITE: None
FEE: None
History of Rock and Roll is a semester long class that discusses Rock and Roll music from its beginnings through current times. We study cultural influences of Rock and Roll as well as its influence on Americans and young people. This class discusses music intellectually as well as social impacts it has had over the last four to five decades. We discuss some of the biggest scandals in Rock and Roll History, as well as blunders. In this class we will learn about Elvis, The Beatles, Rolling Stones, The Who, Jimi Hendrix and many more legendary Rock musicians. We watch and listen to live performances recorded on DVD, YouTube and movies.
In order to graduate from Mead High School, students must earn a total of 0.5 credits of Practical Arts selected from Business, Computer Science, Technology, Family and Consumer Sciences or CDC.


c| Practice Arts—Business

CTE9051
INTRODUCTION TO BUSINESS

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<th>0.5 Credit</th>
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<tr>
<td>PREREQUISITE: None</td>
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<td>FEE: None</td>
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Have you ever wondered if a career in business is for you? Introduction to Business gives you experience in the main area of business; Marketing, Management, Entrepreneurship and Economics. Students explore business through a variety of projects, simulations and research and will even design their own product and a plan for selling it. Emphasis is placed on development of the communication skills necessary for success in the business world. Students will use a variety of technologies and software to enhance their learning. Complimentary courses include Starting Your Own Business and Principles of Management. This course is recommended for students who plan to study business in college and those interested in a career in business.

CTE9064A / CTE9064B

PRINCIPLES OF MANAGEMENT

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<th>1.0 Credit</th>
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<tbody>
<tr>
<td>PREREQUISITE: None</td>
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<tr>
<td>FEE: None</td>
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This course focuses on the development of the leadership and interpersonal skills necessary to be successful in managing employees. Areas of study include: recruiting, screening, training, motivating, and developing benefits packages for employees. Students will study habits and strategies that enhance the personal productivity and self-management skills necessary to be an effective leader. Emphasis is placed on development of the communication skills necessary for success in the business world. Complimentary courses include Starting Your Own Business and Business Law. This course is recommended for students who plan to study business in college and those interested in a career in management.

CTE9052

PERSONAL FINANCE

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<td>PREREQUISITE: None</td>
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<td>FEE: None</td>
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This one semester course is designed to give students the skills they need to take control of their finances. The transition into “post-high school” life will bring many changes. In Personal Finance you learn how to minimize the stress caused by making financial mistakes. You also learn strategies that help you to achieve your dreams and retire in style. Students study important concepts including; finding a job, getting an apartment, managing college finances, buying a car, checking accounts, getting and using credit, online transactions, filing taxes, investing in the stock market, buying a house, insurance, and much more. Complimentary courses include Introduction to Business, Starting Your Own Business and Principles of Management. This course is recommended for all students regardless of their post high school plans!

CTE9072A / CTE9072B

MARKETING

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<td>PREREQUISITE: None</td>
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<td>FEE: None</td>
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Marketing is a 2 semester comprehensive introductory course in the study of economic systems, advertising, selling, and entrepreneurship. Emphasis is placed on performing, evaluating, and presenting marketing research, the use of computers in advertising and the development of management skills. Students also study important general business principles including: the principles of economics, effective leadership strategies. and the development of quality communication skills. Successful completion of this course includes the development of a comprehensive marketing plan for an existing or imaginary product, participation in competitive simulations, and leadership opportunities through student-run organizations. This course is recommended for students who plan to study business in college and those interested in a career in marketing.
CTE9057
0.5 Credit
PREREQUISITE: 10-12 grade
FEE: None
Law is at the heart of every business relationship in the global economy. It provides the structure and organization that allow people and companies to create agreements and make money. In Business Law you develop an understanding of how law works in the business world and how to use the law to protect your interests in agreements and business relationships. Students will learn Business Law by studying real world cases, researching legal resources and participating in a classroom trial. Emphasis is placed on development of the communication skills necessary for success in the business world. The class is conducted in a state-of-the-art P.C. computer lab where students use a variety of technologies and software to enhance their learning. Complimentary courses include Starting Your Own Business and Principles of Management. This course is recommended for students who are interested in a career in business or plan to study business, or law in college.

CTE9056A / CTE9056B
1.0 Credit
PREREQUISITE: 10-12 grade
FEE: None
Starting Your Own Business provides students with the opportunity to start and operate their own business. Students learn a wide range of important skills and strategies that make it possible to start, operate, grow and exit from a business in the U.S. economy. Students study essential aspects of operating a business including: naming and marketing a business, selecting a form of ownership, hiring, compensating, training and motivating employees, acquiring financing, business ethics and planning a profitable exit strategy. Students choose to run an actual business, or compete in a realistic business simulation. Complimentary courses include Marketing and Principles of Management. This course is recommended for students who plan to study business in college and those interested in starting their own business.
In order to graduate from Mead High School, students must earn a total of 0.5 credits of Practical Arts selected from Business, Computer Science, Technology, Family and Consumer Sciences or CDC.

**Family Career Community Leaders of America (FCCLA)**

**Mission:**
To promote personal growth and leadership development through Family and Consumer Sciences education. Focusing on the multiple roles of family member, wage earner and community leader, members develop skills for life through — Character development, creative and critical thinking, interpersonal communication, practical knowledge and career preparation.

**Program Emphasis**
- The only in-school student organization with the family as its central focus.
- Is a Career and Technical Student Organization that functions as an integral part of the family and consumer sciences education curriculum and operates within the school system.
- Provides opportunities for active student participation at local, state, and national levels.

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**CTE9413**
**CULINARY NUTRITION**

0.5 Credit
**PREREQUISITE:** None
**FEE:** $20

This course develops lifelong, healthy individuals with an understanding of healthy and nutritious preparation techniques utilizing various resources and skills. Emphasis is placed on implementing healthy nutritional choices, preparing nutrient-dense seasonal foods, sports nutrition, exploring careers related to culinary nutrition, and practicing wise consumer decisions.

**CTE9412**
**FOOD SCIENCE 2**

0.5 Credit
**PREREQUISITE:** Culinary Nutrition or Food Science 1
**FEE:** $20

This course is an extension of Food Science 1/Culinary Nutrition and is designed for students interested in further exploration of food safety, principles of nutrition, and food preparation techniques with an emphasis on careers within the industry. It is intended to offer students learning opportunities that combine class work and laboratory experiences that reflect the science of food and nutrition. It is not a basic cooking class, and students will not be cooking and/or eating in class every day. It is recommended that all students who take Food Science 1 or Culinary Nutrition also take Food Science 2 as it is designed as a yearlong class.

**CTE9060**
**CAREER PATHWAYS**

0.5 Credit
**PREREQUISITE:** 9th and 10th grade only
**FEE:** None

This course is designed to identify career interest areas based on a student’s goals, individual skills, and aptitudes. Investigate interests, abilities and goal through various projects, and career testing procedures. Students will develop a usable education and career portfolio containing items necessary for post-secondary education and job search. Interact with professionals who work in various career areas through career panels, a job shadow and a mock interview.

**CTE9432**
**PARENT/CHILD DEVELOPMENT**

0.5 Credit
**PREREQUISITE:** None
**FEE:** $10

What is the most difficult career in the world? Parenting! Why not learn the skills you may need in the future, if and when you become a parent? This class, designed both for males and females, will teach students to become responsible, caring parents in their future and about the development of children from birth until age six. Topics include family planning, pregnancy, birth, child development theories, and raising children in a healthy, nurturing environment. Through student-generated FCCLA activities, students will expand on classroom learning.

**CTE9421**
**LIVING ON YOUR OWN**

0.5 Credit
**PREREQUISITE:** 11th and 12th grade only
**FEE:** $10

This course is designed for 11th and 12th grade students who want to develop survival skills necessary for living on their own. Learning experiences include opportunities in clarifying values and goals, finding careers, personal finances and money management, consumer skills, housing and living environments, care for clothing, and making wise nutrition and wellness decisions. All topics apply to practical, everyday life skills. Once students complete this course, they are better prepared to “move out” and make it on their own. Through student-generated FCCLA activities, students will expand on classroom learning.
RELATIONSHIPS

CTE9441  0.5 Credit
PREREQUISITE: 11th and 12th grade only
FEE: None

This course deals with everyday life and interpersonal interactions that every student may encounter during a lifetime. Class begins with knowing oneself better. Students then explore relationships with friends, family, and coworkers, as well as one’s significant other. It allows students to think about their personal future and issues such as dating, marriage, aging, death and suicide, abuse, addictions, sexually transmitted diseases, happiness, and success. Other topics included are communication skills, conflict resolution, sexual identity, gender differences, and stress management. After this course, students will be able to make healthier decisions for themselves and their relationships. This is not a shy class, nothing is held back, and respect and an open mind are required at all times. Through student-generated FCCLA activities, students will expand on classroom learning.
In order to graduate from Mead High School, students must earn a total of 0.5 credits of Practical Arts selected from Business, Computer Science, Technology, Family and Consumer Sciences or CDC.

“Technology and computers are very much at the core of our economy going forward. To be prepared for the demands of the 21st century—and to take advantage of its opportunities—it is essential that more of our students today learn basic computer programming skills, no matter what field of work they want to pursue.”

Todd Park
U.S. Chief Technology Officer

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**BEGINNING GRAPHIC DESIGN**

**CTE116**

*0.5 Credit*

**PREREQUISITE:** Basic understanding of computers

**FEE:** None.

Covering the basic theory and concepts of visual communication used to present information and promote a message. Students learn a basic understanding of the elements and principles of design. Skills taught are typography, image development, layout, scanning images, manipulating photographs and creating digital artwork. Students are exposed to graphics programs such as Adobe Illustrator and Adobe Photoshop. Class projects will include: logo design, poster design, brochure design and packaging design.

**INTRODUCTION TO PROGRAMMING**

**CTE103**

*1.0 Credit*

**PREREQUISITE:** Algebra 1

**FEE:** None

Emphasizing programming methodology with a concentration on problem solving, students learn and practice computational thinking (CT) skills. This course prepares learners to be computational thinkers who understand how today’s digital tools can help solve tomorrow’s problems. Students use a variety of languages to develop creative artifacts using computers to explore computations and data processing. This course is project based learning, collaborative, interdisciplinary and has a real world application. Students explore the intersection of programming, art and math. Emphasis is on computing’s role in society and interaction between humans and systems. No programming experience is needed.

**AP COMPUTER SCIENCE PRINCIPLES**

**CTE510A / CTE510B**

*1.0 Credit—weighted 5.0*

**PREREQUISITE:** 10-12 grade

**FEE:** None

The AP Computer Science Principles course is designed to be equivalent to a first-semester introductory college computing course. This course introduces students to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. Students will be encouraged to apply creative processes when developing computational artifacts and to think creatively while using simulations to explore questions that interest them. Rather than teaching a particular programming language or tool, the course focuses on using technology and programming as a means to solve computational problems and create exciting and personally relevant artifacts. The topics covered are those set by the Advanced Placement Course Description for Computer Science Principles. Students who successfully complete this course usually elect to take the Advanced Placement examination in Computer Science Principles. This assessment comprises of two parts: the end-of-course AP Exam and the through-course AP assessment. The AP Computer Science Principles Exam will be a multiple-choice, paper and pencil exam in which students will demonstrate achievement of the course learning objectives. The through-course assessment comprises two AP Computer Science Principles performance tasks, which require students to explore the impacts of computing and create computational artifacts through programming.

**INTRODUCTION TO APPLICATION DEVELOPMENT**

**CTE118**

*0.5 Credit*

**PREREQUISITE:** None.

**FEE:** None

Want to learn how to make a basic App for the Android phone? No programming experience or Android phone required! We explore developing for the Android platform using MIT’s AppInventor. In addition to learning how to create Apps, students learn basic programming skills: loops, conditional statements, variables, arrays, lists as well as beginning software design and the design thinking process! Bring your creativity and entrepreneurial skills!
Everyday digital media becomes more important as a means for receiving, producing, sharing, and broadcasting information. Adobe Photoshop along with other Adobe software is explored on the Macintosh computers. Students use creativity and image editing skills to produce digital print and informational art. The knowledge and skills acquired in this class enable students to successfully perform and interact in today’s technology-driven society. Design principles are discussed and implemented through the use of student projects.
General Electives

**MS162A / MS162B**
**STUDENT COUNCIL (STUCO)**
1.0 Credit
PREREQUISITE: Application
FEE: $10
Student Council is the governing body that organizes activities throughout the school year. Officers and representatives are elected by the student body. Additional representatives are also chosen through an application process. This class allows the students to learn, to demonstrate leadership qualities, and to be a part of a decision-making group.

**LA429A / LA429B**
**YEARBOOK**
1.0 Credit
PREREQUISITE: Application
FEE: None
Students who have visual and verbal creativity, sound writing skills, and a desire to serve on the yearbook staff are encouraged to apply. All student staff members must have a verifiable history of responsibility, organization, and creative problem solving. This class is designed for independent, self-motivated students who complete assignments by specific deadlines while demonstrating commitment to journalistic excellence. Each staff member must also have an identifiable talent such as art, photography, or written composition. Participants in this course work cooperatively to produce a yearbook for Mead High School. Students are assigned a section of the yearbook and are also involved in design, production, funding, and distribution. Individuals are expected to work in a manner that contributes to the completion of the group’s product. **Students will earn Practical Arts credit for Yearbook.**

**MS240**
**GEEK SQUAD**
0.5 Credit
PREREQUISITE: Teacher/administrator recommendation and interview with Mrs. York or Mrs. Stewart
FEE: None
This course is designed for students who are interested in troubleshooting tech issues and assisting with technology in Mead High School. Students are evaluated on responsibility, attendance, work ethic, and completion of daily assignments. This course is for elective credit. Students will be assigned a pass/fail grade.

**XXXX**
**TEACHER, OFFICE AND COUNSELING AIDE**
0.25 Credit
PREREQUISITE: 10-12 grade and application
FEE: None
Students register to be an Aide after the school year begins. This program is designed for students who wish to gain experience in assisting teachers, in the main office or counseling office with clerical, tutorial, and other tasks as needed. Only one aide period per semester is allowed. Grading will be pass/fail, and students receive .25 credit per semester. Students must obtain permission before enrolling.

**LA212**
**FILM STUDIES**
0.5 Credit
PREREQUISITE: 10-12 grade
FEE: None
This course is for students interested in studying the media of film. They will watch a variety of films and study the history of film, filmmaking techniques, the cultural influence of film, and genre, as well as how to respond to films critically. Students will also have the opportunity to put some filmmaking technique into practice and learn some of the basics of video production by making project short films. **Students will earn elective credit for Film Studies at Mead High School.** Parent/guardian permission is required.
MS191A / MS191B
MS192A / MS192B

**TIME RELEASE PERIOD (TRP)**

1 TRP each Semester = MS191A and MS191B
2 TRP each Semester = MS191A, MS191B, MS192A and MS192B

**PREREQUISITE:** 11th and 12th grade only

**FEE:** None

Time Release Periods (TRP) are generally available only to seniors and juniors with good academic records who, because of a rigorous schedule such as late-night or early afternoon jobs, wish to take off a period during the school day. Seniors who have earned 23 credit may register for a maximum of two time release periods in any one semester. Juniors who have earned 16 credits may register for only one time-release period in any one semester. Eligible juniors and seniors may re-enroll in a maximum of two Time Release Periods each semester. Students must be sure they are enrolled in at least 6 classes. Student enrolled in college classes through the Concurrent Enrollment program or students participating in the Work-Study program may be allowed to exceed the grade level rule depending on their individual circumstances.

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**MS181**

**TUTOR ELEMENTARY**

0.5 credit

**PREREQUISITE:** 11th & 12th grade and Elementary Tutor Application; administrative approval and parent permission

**FEE:** None

Students tutor elementary-age children who need assistance with reading, spelling, math, and other basic skills. Regular attendance is mandatory and students must provide their own transportation to and from Mead Elementary School for each block they are scheduled. The program is offered every block except A1 and B2. Pick up an application in the counseling office. Grading is pass/fail for this course.

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**WORK STUDY**

0.5 Credit

**PREREQUISITE:** 11th or 12th grade and application

**FEE:** None

Work Study gives credit to juniors and seniors who hold a part-time job in addition to attending high school full-time. A student in the Work Study program may earn .50 credits per semester for working a minimum of 15 hours per week for a cumulative total of 270 hours per semester. Semester evaluations from employers’ are required and will be taken into consideration when grades are assigned. Grading is pass/fail. Students must complete an application and evaluation process by the deadline or no credit will be granted. Students may only receive 1.0 total credits of Work Study throughout their enrollment at Mead High School. **Students must complete a Work Study Application at the beginning of the school year.**

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**LA450A / LA450B**

**DEBATE/FORENSICS**

1.0 Credit

**PREREQUISITE:** None

**FEE:** $120

Designed to develop a wide repertoire of speaking skills while developing poise and confidence. Intended to give students a variety of speech experiences both in the classroom and in competition through engagement in multiple speech events sanctioned by the Colorado High School Activities Association and the National Forensic League. An extension of the high school speech curriculum, this course includes performance and debate categories. Preparation for performance in the interpretive categories includes the analysis of literature as a means of achieving mature understanding. Preparation for performance in the non-literacy categories includes research and the student of logic and strategies for writing effective persuasive discourse. **Students will earn Elective Credit for Debate/Forensics at Mead High School.**
CONCURRENT ENROLLMENT PROGRAM
Juniors and Seniors at Mead High School are eligible to enroll at an eligible post-secondary courses.

If interested you must:

1. Meet with your School Counselor
2. Update your ICAP
3. Complete College in Colorado Worksheet
4. Complete your SVVSD Online Registration Form
5. Complete your Community College Application
6. Sign up for the College Opportunity Fund
7. Register for your college course(s) at FRCC or Aims CC.

The Concurrent Enrollment program allows juniors and seniors to take college courses while still in high school. This program is designed to enhance a student’s high school education and not replace graduation requirements. College courses must be three credits in order to receive .50 high school credits and be applied to the student’s high school and college transcripts. Students may enroll in one or two college courses per semester. Students must pass the college course with a “C” or higher to be considered for reimbursement. Tuition will be reimbursed by the school district for a maximum of two classes each semester. Books, fees, and transportation costs are the responsibility of the student. Most Mead High School students take Concurrent Enrollment courses at FRCC or Aims CC. Students are directed to see their counselor for more information. By law, application must be completed 60 days prior to the start of the semester. Students must attend a mandatory informational meeting about Concurrent Enrollment and meet with their counselor to select college classes.

The following college classes will be taught each semester at Mead High School by faculty from Front Range Community College and Aims Community College.

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**COM 125—INTERPERSONAL COMMUNICATION**

0.5 credit
Front Range Community College

PREREQUISITE: 11th and 12th grade only. See your counselor for more information.

FEE: College fees & textbooks (SVVSD will pre-pay tuition for approved college courses)

Examines the communication involved in interpersonal relationships occurring in family, social, and career situations. Relevant concepts include self-concept, perception, listening, nonverbal communication, and conflict. Three college credits.

**GIS 205—GIS APPLICATIONS**

0.5 credit
Front Range Community College

PREREQUISITE: 11th and 12th grade only. See your counselor for more information.

FEE: College fees & textbooks (SVVSD will pre-pay tuition for approved college courses)

Develop competency in web based geospatial information technologies. This course introduces students to concepts and processes of software based geospatial services to deliver geospatial information over networks. The course provides a comprehensive discussion of theory and applied technology of GIS software information services as well as integration of geospatial services into GIS applications. Three college credits. This course is a requirement for the Energy Academy.

**CRJ 110—INTRO TO CRIMINAL JUSTICE**

0.5 credit
Aims Community College

PREREQUISITE: 11th and 12th grade only. See your counselor for more information.

FEE: College fees & textbooks (SVVSD will pre-pay tuition for approved college courses)

Introduces a study of the agencies and processes involved in the criminal justice system: the legislature, the police, the prosecutor, the public defender, the courts, and corrections. Includes an analysis of the roles and problems of the criminal justice system in a democratic society, with an emphasis upon inter-component relations and checks and balances. Three college credits. This class is a Guaranteed Transfer course for Social Sciences.

**ACC 101—FUNDAMENTALS OF ACCOUNTING**

0.5 credit
Aims Community College

PREREQUISITE: 11th and 12th grade only. See your counselor for more information.

FEE: College fees & textbooks (SVVSD will pre-pay tuition for approved college courses)

Presents the basic elements and concepts of accounting, with emphasis on the procedures used for maintaining journals, ledgers, and other related records, and for the completion of end-of-period reports for small service and merchandising businesses. (Please note that this course does not transfer to a four-year school.) Three college credits.
Mead High School students may attend the Career Development Center. Transportation is provided to and from Mead High School and CDC. Career and technical education classes that provide students with both academic preparation and practical knowledge. Programs that are based on community college curriculum and local industry needs. Students that are prepared for two-year and four-year college classes and other post-secondary education. Some programs offer credit that can be applied to Colorado two year colleges. Programs that expose students to the latest in technology via theory as well as hands-on experiences in laboratory and real-world environments. CDC assists students in job placement and cooperative work experience. CDC curriculum offers elective credit for high school students plus English credits in selected programs that apply toward graduation requirements. Entry-level training is provided in classes with students from throughout the St. Vrain Valley School District that encourages students to explore and grow.

**CDC SUBJECT AREAS**

- AGRISCIENCE
- AUTOMOTIVE TECHNOLOGY
- COSMETOLOGY
- CULINARY ARTS & TRAINING
- DENTAL ASSISTING
- ENGINEERING TECHNOLOGY & MACHINING
- FLORAL DESIGN
- HEALTH SCIENCES
- HORTICULTURE (GREENHOUSE MANAGEMENT)
- MULTIMEDIA
- WELDING AND FABRICATION
Career Development Center (CDC)

Career Development Class Times
Block 1 7:45-9:00 AM
Block 2 9:25-10:40 AM
Block 3 11:20 -12:35 PM
Block 4 12:50-2:05 PM

All programs have transitioned to a double block every other day.

Busing is provided from all home high schools for each class. See your counseling office for details.

AGRISCIENCE AND TECHNOLOGY

Introduction to Agriscience, CTE 9302; exposes students to all aspects of the agriculture industry. Topics covered may include: Animal Science, Plant Science, Agribusiness, Natural Resources, Food Products and Processing, Power Structure and Technical Systems, and Environmental Science.

Grades 9–12; 2 Semesters (full year); 1.0 Elective Credits; Pre-Requisite: N/A

Advanced Agriscience, CTE 9311; will further student’s knowledge of the agriculture industry. Main courses of study will include Food Products and Processing, Natural Resources, Plant Science, and Agribusiness.

Grades 10–12; 2 Semesters (full year); 2.0 Elective Credits; Pre-Requisite: Intro to Ag

Animal Science, CTE 9324; will cover all aspects of the animal science and veterinary medicine industries. Topics will include large and small animal management, anatomy and physiology, nutrition, reproduction, health and diseases.

Grades 10–12; 1 Semester (Fall Only); 1.0 Elective Credits; Pre-Requisite: Intro to Ag

Agribusiness, CTE 9315; is designed to expose students to the vast opportunities within the Agricultural Business Pathway. Topics covered will include management of agricultural business records, agricultural law, personal financial planning, marketing, agricultural sales, agricultural issues, securing employment in agriculture, as well as entrepreneurship. Students will be involved in the National FFA Organization and maintain a Supervised Agricultural Experience Program (SAEP).

Grades 10–12; 2 Semesters (full year); 2.0 Elective Credits; Pre-Requisite: Intro to Ag

Equine Science, CTE 9325; will cover all aspects of the equine science and veterinary medicine industries. Topics will include equine management, anatomy and physiology, nutrition, reproduction, health and diseases. Students will be involved in the National FFA Organization and maintain a Supervised Agricultural Experience, “SAE.”

Grades 10–12; 1 Semesters (Spring Only); 1.0 Elective Credits; Pre-Requisite: Intro to Ag

Vet Science, (***PENDING district approval***); This course provides the opportunity for students to explore different avenues of the veterinary profession. Students will be exposed to veterinary science and principles which include anatomy, physiology, chemistry, animal health and disease, dentistry and laboratory procedures. Students will learn hands-on care as they develop skills in the areas of surgical assisting, bandaging, wound care, oral care, and general nursing care.

Grades 10–12; 1 Semesters (Fall or Spring); 1.0 Elective Credits; Pre-Requisite: Intro to Ag; Meets Blocks B 5&6 Fall Semester or A 3&4 Spring Semester

AUTOMOTIVE TECHNOLOGY

Automotive Maintenance and Light Repair for Female Students I—Beginning Automotive Technology (Semester One) CTE 9803

This year long program contains two different sections that are specifically designed for female students who would enjoy a single gender class. The first class covers automotive industry standards and terminology, career opportunities and classifications, shop operations and safety, tool identification and usage, diagnostic equipment identification and usage, automotive systems, tires and wheels, hydraulic braking systems, cooling systems, lubrication systems and preventative maintenance. (This is a YEAR ONE CLASS.)

Grades 9–12; 2 Semesters (full year); 1.0 Elective Credit; Pre-Requisite: N/A
Career Development Center (CDC)

AUTOMOTIVE TECHNOLOGY

Automotive Maintenance and Light Repair for Female students II—Basic electrical (Semester Two), CTE 9804
The second half of the Automotive Maintenance and Light Repair Class for Female students teaches the basics of electrical systems, electronic systems, batteries, starting systems, charging systems, lighting systems, electrical instruments and accessories, and ignition systems. This class teaches students to troubleshoot common problems and to diagnose typical repairs. (This is a YEAR ONE CLASS.)
Grades 9–12; 2 Semesters (full year); 1.0 Elective Credits; Pre-Requisite: MLR 9803

Beginning Auto, CTE 9801
Beginning Auto Technology covers automotive industry standards and terminology, career opportunities and classifications, shop operations and safety, tool identification and usage, diagnostic equipment identification and usage, automotive systems, tires and wheels, hydraulic braking systems, cooling systems, lubrication systems, and preventative maintenance. Also included is basic operation of automotive braking systems—operation, diagnosis and basic repair of disc, drum, and basic hydraulic braking systems. Focuses on lecture and related experiences in the diagnosis and service of suspensions and steering systems and their components. (This is a YEAR ONE CLASS and a prerequisite to all advanced classes.)
Grades 9–12; 1 Semester; 1.0 Elective Credit; Pre-Requisite: N/A

Basic Electrical, CTE 9811; teaches the basics of electrical systems, electronic systems, batteries, starting systems, charging systems, lighting systems, electrical instruments and accessories, and ignition systems. (This is a YEAR ONE OR TWO CLASS)
Grades 9–12; 1 Semester; 1.0 Elective Credit; Pre-Requisite: Beginning Auto

Brake Systems, CTE 9802
This course covers operation, diagnosis, service and repair of drum, disc, basic hydraulic, anti-lock, power assist units and machine operations of today’s automobile brake systems. This class also teaches skills to perform service checks and procedures to automotive foundation braking systems and identify components and types of Anti Lock Braking Systems “ABS” as well as traction control systems. (This is a YEAR TWO CLASS)
Grades 10-12; 1 Semester; 1.0 Elective Credit; Pre-Requisite: Suspension and Alignment

Suspension and Alignment, CTE 9815
Covers: design, diagnosis, inspection, and service suspension and steering systems used on light trucks and automobiles. Course includes power steering, Supplemental Restraint System “SRS” (or airbags) and all alignment procedures on industry standard equipment is covered in this class. (This is a YEAR ONE OR TWO CLASS)
Grades 9–12; 1 Semester; 1.0 Elective Credit; Pre-Requisite: Beginning Auto

Engine Performance, CTE 9821
Areas of instruction include intake and exhaust systems, ignition system diagnosis and service, fuel system diagnosis and service, carburetor diagnosis and service, fuel injection diagnosis and service, emission control diagnosis and service, and onboard diagnostic system and service. (This is a YEAR THREE CLASS.)
Grades 11–12; 1 Semester; 2.0 Elective Credits; Pre-Requisite: Basic Electrical

Engine Repair, CTE 9825
Instruction combines lecture and laboratory experiences in the removal and installation of the automotive engine, transmission, transfer case, and clutch assembly from and into front and rear wheel drive vehicles. (This is a YEAR THREE CLASS.)
Grades 11–12; 1 Semester; 2.0 Elective Credits; Pre-Requisite: Suspension and Alignment

***All Automotive classes will meet for a double block every other day except Engine Performance and Engine Repair. Engine Performance and Engine Repair meet for double blocks everyday.
COSMETOLOGY

Hair styling 1, CTE 9602 or Hair styling 2, CTE 9603: This 2 year program includes hair cutting, hair styling, hair color treatment, conditioning and scalp treatment, permanent waving and straightening, and dressing wigs. All students enrolled in the program must successfully complete a minimum of 1200 hours of training to take the State Board examination to be a licensed hairstylist. Classes are ½ day long for two years. (8 total elective credits upon completion of entire program)
Grades 10-12; 2 Semesters (full year); 4.0 Elective Credits; Pre-Requisite: Separate Application Process with Interview

CULINARY ARTS

Culinary Arts/Chef Training I, CTE 9661 or Culinary Arts/Chef Training II, CTE 9671; teach the basic skills of food production for a commercial kitchen, restaurant, or catering facility. Skill areas will include safety and sanitation, nutrition, menu planning, baking, production of desserts, entrees, soups, sauces, salads, and sandwiches. Students are rotated through production and service stations, while serving the community. Students learn guest relations as well as, how to keep accurate financial records for the profit and loss of the operation.
Grades 9-12; 2 Semesters (full year); 2.0 Elective Credits; Pre-Requisite: N/A

Baking and Pastry, CTE 9675; In addition to reviewing and continued practice of safety and sanitation procedures, students will be introduced to the topics of basic baking terminology and measurement, baking percentages and ratios, ingredients, quick bread/yeast/lamination dough, cakes and petite fours, pies and pastries, cookies, planning and organization of bakery production and dessert artistry. Classes are ½ day long every other day.
Grades 10-12; 1 Semester; 2.0 Elective Credits; Pre-Requisite: Culinary Arts I

DENTAL ASSISTING

Dental Assisting 1, CTE 9501; gives the student a basic understanding of the history of dentistry, dental team members’ jobs, careers, infection control, the anatomy of the head, anatomy of the oral cavity, teeth structures, gum structures, oral hygiene, communication, ethics, laws, nutrition, tooth decay, and a basic understanding of radiology.
Grades 10-12; 2 Semesters (full year); 2.0 Elective Credits

Dental Assisting 2, CTE 9511; is designed to instruct students in the treatment rooms and laboratory on all aspects of the dental assistant’s duties on the job. The course fulfills the radiology and infection control requirements of the Colorado State Dental Practice Act.
Grades 10-12; 2 Semesters (full year); 2.0 Elective Credits; Pre-Requisite: Dental 1 or concurrent enrollment in Dental 1

ENGINEERING TECHNOLOGY AND MANUFACTURING

Engineering Technology I, CTE 9721 or Engineering Technology II, CTE 9731; are 2 semester courses that introduce students to CAD/CAM (computer-aided design and computer-aided manufacturing) software and the use of mills, lathes, and lasers used by machinists and engineers. Students work on a variety of projects and assignments designed to introduce them to 3D mechanical CAD and have the opportunity to create projects on CNC (for Computer Numeric Control) and manual machines. Projects include instruction in: Solidworks, Mastercam, Mastercam Mill/CNC, MasterCam Lathe/CNC, Manual Mill, Manual Lathe, Mastercam Mill, Mastercam Lathe, Machining Math, Technical Writing, and Mechanical Drafting. Students will also participate in a variety of job skills activities such as resume and cover letter writing as well as, interview development.
Grades 9-12; 2 Semesters (full year); 2.0 Elective Credits; Pre-Requisite: N/A

Engineering Technology ISA, CTE 9735 (Independent Study) students in ISA become teacher assistants to provide problem solving, skill and knowledge for level 1 and level 2 students. This class is for the student who has learned how to take responsibility for his/her own technology career pathway, and is interested in an in-depth, further specialized technical career pathway.
Grades 11-12; 2 Semesters (full year); 2.0 Elective Credits; Pre-Requisite: Engineering Tech II
FLORAL DESIGN

Floral Design I, CTE 9341 or Floral Design II, CTE 9343; teaches students to work in the floral design industry, a working knowledge of retail flower shop management & procedures. Both introduce students to the basic principles and elements of floral design that can be used for personal or professional industry applications. Students also learn basic care and identification of fresh flowers, design, purchasing, and pricing of various types of floral compositions.

Grades 10–12; 2 Semesters (full year); 2.0 Elective Credits; Pre-Requisite: N/A

GREENHOUSE MANAGEMENT

Greenhouse I, CTE 9351 or Greenhouse II, CTE 9353; introduces students to the biology of horticultural plants and basic horticultural practices while caring for the program’s on-site greenhouse. Also emphasized are greenhouse design, systems, management, and the major greenhouse crops and their cultural needs. Students are responsible for planting, watering, and cultivating a variety of flowers, bedding plants and vegetables.

Grades 10–12; 2 Semesters (full year); 2.0 Elective Credits; Pre-Requisite: N/A

HEALTH CAREERS

The Career Development Center is revising the Med Prep program and changing the program name to Health Science to align with the industry standard beginning Fall of 2015. This program will follow a pathway over 4 years. It will be open to freshman students for the first time ever with an offering of two introduction courses. Students will participate in HOSA (Health Occupation Students of America).

Exploration of Health Care, CTE 9515
This is the first course in the Health Science Pathway and is based on the National Consortium Of Health Science Education. This course looks at the history of health care, legal issues surrounding health care, characteristics of a healthcare worker, various health care careers and a brief overview of the anatomy of the human body. This course consists of lecture, demonstrations and hands on learning and optional job shadowing.

Grades 9-12; 1 semester (half year); 1.0 Elective Credit; Pre-Requisite: N/A

Medical Terminology, CTE 9516
Medical Terminology is the second course in the Health Science Pathway. This course will explore the language of health care and health science. Students will learn the root, prefixes and suffixes of the health sciences language. Health care and health sciences have a language that is not common to those outside the medical field. This course will allow the student to have strong language skills prior to entering advances courses. This course consists of lecture, demonstrations and hands on learning activities.

Grades 9-12; 1 semester (half year); 1.0 Elective Credit; Pre-Requisite: N/A, Exploration of Health Care highly recommended

Anatomy and Physiology for Health Care, CTE 9517
This course is for students throughout the district interested in pursuing a career in health care. The course will not only explore the anatomy and physiology of the human body, but also the more common diseases in each body system that students will encounter as a healthcare worker. Students will learn Heartsaver CPR, First Aid and Universal Precautions with Personal Protective Equipment. This course includes lecture, hands on learning, demonstrations, dissections, cadaver lab and other activities.

Grades 10-12; 2 Semesters (full year); 2.0 Elective Credits; PreRequisite: N/A, Exploration of Healthcare and Medical Terminology highly recommended
Emergency Response, CTE 9521
Emergency Response is a one semester course based on the National Transportation Safety Board recommendations and is geared for the student who wants in-depth knowledge and information in pre-hospital emergency care. These individuals, often called “first responders,” include but are not limited to firefighters, law enforcement personnel, lifeguards, ski patrollers, emergency response teams, and athletic trainers. The course features lecture, discussion, decision-making activities, skill practice, and video demonstration.
**Grades 11-12; 1.0 Semester (half year); 1.0 Elective Credit; PreRequisite: Anatomy and Physiology--at home high school OR Anatomy and Physiology for Health Care--CDC**

Introduction to Sports Medicine, CTE 9522
Introduction to Sports Medicine is a one semester class that introduces students to athletic training procedures as they relate to the athlete, physical educator, coach, and athletic trainer. The course includes a history of the athletic training profession, ethics, proper documentation of injuries, taping, and the principles of athletic training. Topics covered in this class include a general overview of all aspects of athletic training prevention and treatment of common to acute and overuse injuries and general anatomy review.
**Grades 11-12; 1.0 Semester (half year); 1.0 Elective Credit; PreRequisite: Anatomy and Physiology--at home high school OR Anatomy and Physiology for Health Care--CDC**

Nursing Assistant, CTE 9531
Nursing Assistant is for the 12th grade student interested in caring for others. Upon successful completion, students are prepared to take the written and skills exams for Colorado State Board of Nursing; Nurse Aide certification at a cost of $123.00. This course includes basic theory and skills needed for working as a nursing assistant in a long-term care facility, home health care agency, or a hospital. Students will be trained in American Heart Association Basic Life Support (BLS) for the Health Care Provider CPR. Time outside of class will be required for clinical experience. **Due to the mature nature of this course, only 12th grade students will be enrolled and must complete an interview with the instructor before being accepted into the program. Students will be required to have up to date immunizations including the vaccine for Influenza, show proof of a negative Tuberculosis (TB) test and pass a required background check at the cost of approximately $35.00, to participate. Background check must be completed prior to the first day of class.**
**Grade: 12; 1.0 Semester (half year); 1.0 Elective Credit; PreRequisite: Anatomy and Physiology--at home high school OR Anatomy and Physiology for Health Care**

Introduction to Multimedia and Photoshop I, CTE 9025; introduces students to multimedia principals and equipment as well as concentrating on the industry standard software for graphic editing. Students will learn to operate equipment such as scanners, printers, digital cameras and computers that are used in the multimedia field. Students will become proficient in the use of Photoshop while learning a wide range of selection and manipulation techniques that can be applied to photos, graphics, and videos. Design principles will be discussed and implemented through the use of student projects. Students will have the opportunity to earn a certificate from Adobe as a Certified Photoshop Associate by passing a test at the end of the class.
**Grades 9--12; 2 Semesters (full year); 2.0 Elective Credits; Pre-Requisite: N/A**

Multimedia Projects, CTE 9027; is a course open only to students who have completed Introduction to Multimedia and Photoshop I. Students will confer with the teacher to propose a project that simulates a marketable product in the business world and then will be responsible for completing the project.
**Grades 10--12; 2 Semesters (full year); 2.0 Elective Credits; Pre-Requisite: Instructor approval; Contact CDC to schedule**

Welding I, CTE 9901, Welding II, CTE 9911, or Welding III, CTE 9921; provides an opportunity for students to learn various welding techniques, and to receive safety instruction to apply in a welding shop, the construction industry and everyday living. Welding students have the opportunity to learn Oxy-Acetylene welding and torch cutting, ARC, MIG and TIG welding.
**Grades 10--12; 2 Semesters (full year); 2.0 Elective Credits; Pre-Requisite: N/A**
APPLICATION FOR ADMISSION

Students should request CDC courses in INFINITE CAMPUS during the registration time-frame at his/her home high school and follow instructions based on each school’s procedures. Requesting a course does not guarantee that a student is enrolled in CDC courses. Students should follow up with counseling staff to confirm enrollment.

Name ____________________________ Date of Birth ____________________________
Mailing Address ____________________________ Telephone ____________________________
City/State/Zip ____________________________ Second Contact Number ____________________________
Student ID # ____________________________ Home High School ____________________________

Program(s) of interest/requested:

1. Course number: CTE________
   Course Name:__________________________

2. Course number: CTE________
   Course Name:__________________________

3. Course number: CTE________
   Course Name:__________________________

Please note:

• CDC courses are a commitment and by signing this application both the student and parent(s)/guardian(s) recognize that the responsibility to attend is being made by him/her for the duration of the course(s).

• Attendance in CDC classes is mandatory and essential for student success. Non-school related absences need to be reported by calling the CDC attendance line; 720-494-3964 or on the website; https://cdc.svvsd.org via email. CDC follows the district attendance policy enforced by the Board of Education. All absences must be excused within 48 hours.