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

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

Also available online at mhs.svsvd.org
Welcome to the Maverick Family!

The next four years will be spent making some of the most important decisions you will make in your young adult life. They will affect your college and career choices, your relationships, and the confidence in which you will approach your adult life. At Mead High School, we believe you should challenge yourself with a progressively rigorous course of study. We also believe that students should balance their academic interests by being actively involved in sports, clubs, and extracurricular activities. Get involved - challenge yourself - stay connected!

Mead High School believes that ALL students can achieve at a high level. Because of this, we offer 11 honors courses and 28 Advanced Placement courses. In addition, we partner with Front Range Community College and Aims Community College, along with the St. Vrain Career Development Center and the Innovation Center, to provide our students with a robust selection of course offerings. In order for our students to be college and career ready, there are several important factors to consider:

- **A progressive, more rigorous approach to their studies as they move from 9th through 12th grade.** Are you taking advantage of the rigor your school has to offer?
- **A balanced course of study in order to learn what they like and do not like before they enter college or post-secondary options.** Are you trying different courses?
- **Strong preparation and score on the SAT state exam.** Are you taking state testing seriously?
- **Strong grade point average.** Are you working hard every day in your classes?
- **Be involved in an extracurricular activity, club, sport, or invest in community service options to build a well-rounded college and career portfolio.** Are you involved in your school community?

Our students have a strong advantage. We have hired the best teachers to work with you - they care about your success and the quality of the options you have available. Our counseling department is uniquely prepared to answer any questions regarding programming, future plans, college and career choices, and mental/social emotional health. We have a strong culture of care - caring for each other, caring for our school, caring for our community, and caring about ourselves.

Our job is to promote your goals. As you journey through the next few years - try something new, expect to work hard, believe in yourself, and take on a challenge. Best of luck as you pave the way for your future!

Always a Maverick!

Rachael Ayers
Principal, Mead High School
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### ADMINISTRATIVE STAFF

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rachael Ayers</td>
<td>Principal</td>
<td><a href="mailto:Ayers_rachael@svvsd.org">Ayers_rachael@svvsd.org</a></td>
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</tr>
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<tr>
<td>Chad Eisentrager</td>
<td>Asst. Principal / Athletic Director</td>
<td><a href="mailto:eisentrager_chad@svvsd.org">eisentrager_chad@svvsd.org</a></td>
</tr>
<tr>
<td>Douglas Gordon</td>
<td>Dean of Students</td>
<td><a href="mailto:gordon_douglas@svvsd.org">gordon_douglas@svvsd.org</a></td>
</tr>
</tbody>
</table>

### COUNSELING STAFF

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthony Elliott</td>
<td>School Counselor</td>
<td><a href="mailto:elliott_anthony@svvsd.org">elliott_anthony@svvsd.org</a></td>
</tr>
<tr>
<td>Calan Anderson</td>
<td>School Counselor</td>
<td><a href="mailto:anderson_calan@svvsd.org">anderson_calan@svvsd.org</a></td>
</tr>
<tr>
<td>Maura Brady-McMullen</td>
<td>School Counselor</td>
<td><a href="mailto:brady-mcmullen_maura@svvsd.org">brady-mcmullen_maura@svvsd.org</a></td>
</tr>
<tr>
<td>Pedro Linsenmeyer</td>
<td>School Interventionist</td>
<td><a href="mailto:linsenmeyer_pedro@svvsd.org">linsenmeyer_pedro@svvsd.org</a></td>
</tr>
</tbody>
</table>

### OFFICE STAFF

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andrea Felton</td>
<td>Registrar/Counseling Secretary</td>
</tr>
<tr>
<td>Susan Derden</td>
<td>Athletic/Activities Secretary</td>
</tr>
<tr>
<td>Dainele Mendenhall</td>
<td>Communications Secretary</td>
</tr>
<tr>
<td>Rachel Long</td>
<td>Health Clerk</td>
</tr>
<tr>
<td>Valerie Rine</td>
<td>Attendance Clerk</td>
</tr>
<tr>
<td>Penni Anderson</td>
<td>Campus Supervisor</td>
</tr>
<tr>
<td>David Montelongo</td>
<td>Campus Supervisor</td>
</tr>
<tr>
<td>Officer Ismeal Aldana</td>
<td>Mead Police Department, School Resource Officer</td>
</tr>
</tbody>
</table>

### 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 — 3:00pm

### Mailing Address

Mead High School  
12750 County Road 7  
Longmont, CO 80504
This registration guide was prepared to assist parents and students to plan their academic programming plan at Mead High School. It is important to plan and periodically review your educational goals with your counselor as you move through High School.

1. You will register for classes once per year. Carefully read the description, grade level and prerequisites to make sure the classes you choose are at the appropriate level.
2. Give yourself enough time to carefully consider and plan your course selections.
3. Courses offered at Mead High School come from student request. If a sufficient number of students request a course during registration, and we have adequate staffing, the course will be offered.
4. 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.

Course selection: Keep the following in mind as you begin to select your courses.
- Mead HS runs on an alternating A day/B day block w/ periods 1-4 on A days and periods 5-8 on B days.
- All courses are either one semester or one year in length. Credit is awarded at the end of each semester once a student has earned a 60% or higher in that course.
- Each semester Freshman and Sophomores will be enrolled in eight blocks. Juniors and seniors must be enrolled and pass a minimum of six blocks, each semester. Enrollment in at least six blocks is mandatory for all students to maintain athletic and academic eligibility per SVVS School Board policy.

Planning Ahead: Careful planning to prepare for your post-secondary options and graduation is essential
Course selection should be the result of careful planning to prepare for postsecondary education as well as to complete graduation requirements:
- Plan ahead—not just for one year, but for four years and beyond. You can plan out your four year plan using the Academic Planner on Infinite Campus. Schedule a meeting with your counselor for assistance.
- Know the SVVS graduation requirements for your grade. Are you meeting these in your planning?
- Stay on track by working hard and staying on top of your coursework. Free tutoring is available for extra assistance.
- If you are an athlete, know the eligibility rules adopted by the Colorado High School Activities Association (http://chsaaonow.com) and NCAA (www.eligibilitycenter.org). See page 8 for additional details about NCAA eligibility.
- 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 (IC) Information:
IC is your academic progress online. IC can be accessed by parents and students to see grades, attendance, transcripts, schedules, fees and teacher emails. To register and to receive a username and password 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 and access student information.

Student Paying—Fines and Fees
Many classes are assigned a course fee or materials that must be returned are checked out. Students are responsible for paying these fees for selected courses and returning school books, iPads, and materials. It is important to pay these fees in the year the course is taken. Before graduation, all fees/fines must be paid in full 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 waiver must be requested each year of eligibility in the year the fees are acquired. (Extreme hardship situations not meeting this minimum may be considered by the principal only).
General Course Information

HOW TO READ A COURSE DESCRIPTION IN THIS BOOKLET:

Course numbers: MA120A / MA120B
Course name: ALGEBRA 2
Courses or criteria that must be met before taking this course: Geometry or Honors Geometry
Amount of credit: 1.0 Credit
Course Description: 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.

Credit/Grade Definitions

Letter Grades: Letter grades are assigned using an A, B, C, D, or F for most courses. These grades are used to compute a student’s grade point average (gpa). Some classes are awarded a Pass/Fail credit, and they are not used in the gpa calculation.

<table>
<thead>
<tr>
<th>Letter Grades</th>
<th>Regular</th>
<th>Honors</th>
<th>AP</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4</td>
<td>4.5</td>
<td>5</td>
</tr>
<tr>
<td>B</td>
<td>3</td>
<td>3.5</td>
<td>4</td>
</tr>
<tr>
<td>C</td>
<td>2</td>
<td>2.5</td>
<td>3</td>
</tr>
<tr>
<td>D</td>
<td>1</td>
<td>1.5</td>
<td>2</td>
</tr>
<tr>
<td>F</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

Grade Points Earned Per Course:

Credit/Grade Definitions

Letter Grades

<table>
<thead>
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<tr>
<td>A</td>
<td>4</td>
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</tr>
<tr>
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<td>3</td>
<td>3.5</td>
<td>4</td>
</tr>
<tr>
<td>C</td>
<td>2</td>
<td>2.5</td>
<td>3</td>
</tr>
<tr>
<td>D</td>
<td>1</td>
<td>1.5</td>
<td>2</td>
</tr>
<tr>
<td>F</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

Cumulative gpa Calculation: \[ \frac{\text{Total grade points earned}}{\text{Total # of credits attempted}} \]
Current gpa Calculation: \[ \frac{\text{Total grade points earned}}{\text{Total credits attempted during the same grading period}} \]

Credit: Unit of measure assigned to each course a student takes. All St. Vrain students must earn a minimum of 24.5 credits in the correct content areas to meet graduation requirements.

How credit is assigned:

- AP classes that are everyday for one semester and every other day for one semester (AP Bio, AP Chem, AP Calc BC): 1.5 Credit
- Two semesters (36 weeks) of successfully completed course work: 1.0 Credit
- One semester (18 weeks) of successfully completed coursework: 0.5 Credit

Transfer Credits From Out of District Programs: Students may look to other resources to enhance/supplement their education. Options include correspondence courses, online courses or college courses (Non-CE). Per SVVS policy IKF, only 2.0 credits may be taken out of district and applied to the student’s transcript for graduation. Please consult your student’s counselor to make sure that the proper application forms are used, and that this coursework can be used toward high school graduation credit. Payment for these courses is the responsibility of the student.

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 semester grade for that course 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”.


A student’s schedule should maximize the educational opportunity afforded them. Students are encouraged to plan ahead and work with their counselor whenever possible. Students should follow the recommended class load by grade level.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Class Requirements</th>
<th>Course of Study Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>8 classes</td>
<td>Mead HS classes, Study Hall</td>
</tr>
<tr>
<td>10</td>
<td>8 classes</td>
<td>Mead HS classes and CDC, Begin AP coursework if strong study habits and reading skills</td>
</tr>
<tr>
<td>11</td>
<td>6-8 classes</td>
<td>Mead HS classes, CDC, Concurrent Enrollment, AP Courses</td>
</tr>
<tr>
<td>12</td>
<td>6-8 classes</td>
<td>Mead HS classes, CDC, Concurrent Enrollment, AP Courses, IC Courses</td>
</tr>
</tbody>
</table>

Scheduling begins in January with pre-registration for the next school year. Students will complete course requests during spring registration. Counselors meet with students in small groups to explain the registration process and individually to provide guidance and finalize course selections.

Registration is a necessary step in preparing a master schedule that reflects student interest. Numbers generated by registration are used to determine what classes will be offered and how many sections will be needed. Because registration determines the master schedule, students are required to remain in classes in which they registered for. If classes cannot be offered or there is a scheduling conflict, a student may be placed in an alternative course requested during registration.

Schedule changes:
Schedule changes will be made ONLY for the following reasons:
Schedule changes are dependent on space availability in the classroom. According to SVVS 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.

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 eCredit 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, office aide or Time Release.
6. Graduation Requirements were left out of the schedule

CHSAA—Athletic Eligibility
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’s eligibility is based on both his/her current and the previous 18 week term of enrollment. To maintain eligibility, a student must be enrolled and passing in a minimum of 2.5 credits each semester per CHSAA guidelines. In addition, a student must have passed a minimum of 2.5 credits within the prior 18 week semester. Mead HS defines academic eligibility as being enrolled in 6 classes and passing at least 5 of those 6 classes.

A student athlete should attend summer school or ecredit classes 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.

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
NCAA Initial-Eligibility Process

Below is a flowchart to help you, students and parents to better understand the initial eligibility process.

**GRADE 9**
- Student asks counselor for a list of high school’s core courses to ensure he or she takes the right classes.

**GRADE 10**
- Student registers with the NCAA Eligibility Center at eligibilitycenter.org.

**GRADE 11**
- Student checks with counselor to make sure he or she will graduate on time with all required NCAA core courses.
- Student takes the ACT or SAT, submitting his or her scores to the NCAA using code 9999.
- At the end of the year, counselor provides student’s official transcript to the NCAA Eligibility Center.

**GRADE 12**
- Student finishes last NCAA core courses.
- Student takes the ACT or SAT again, if necessary, submitting his or her scores to the NCAA using code 9999.
- After April 1, student requests final amateurism certification decision from the NCAA Eligibility Center.
- After graduation, counselor provides student’s final official transcript with proof of graduation to the NCAA Eligibility Center.

---

NCAA college recruits student

NCAA Eligibility Center reviews student’s academic credentials

NCAA Eligibility Center reviews new school’s core courses

DECISION
- NCAA Eligibility Center approves or denies new school

DENIED
- NCAA cannot use school’s courses to certify student
- NCAA Eligibility Center continues to review school’s new core courses

APPROVED
- NCAA can use school’s approved core courses to certify student

DI & DI NONQUALIFIER
- Student may not practice, compete or receive athletic aid in first year

DI ACADEMIC REDSHIRT
- Student may practice, receive athletic aid, or both, in first year

DI PARTIAL QUALIFIER
- Student may practice or receive athletic aid, or both, in first year

DI & DI QUALIFIER
- Student may practice, compete and receive athletic aid in first year

CERTIFIED AS AMATEUR
- Student may compete in NCAA sports

AMATEURISM DENIED
- Student may not be eligible to compete in NCAA sports
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 or higher 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, Advanced Placement, Concurrent Enrollment Courses)
3. Courses taken on a pass/fail basis (Teacher Aide, Elementary Tutor and Work Study) will NOT be considered in the computation of academic lettering.
4. 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:
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 we encourage the Valedictorian and/or Salutatorian to speak at the graduation ceremony.

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:

1. 12 or more credits must be completed at Mead High School.
2. Students must be enrolled full-time at Mead High School during their junior and senior years.
3. Classes granted a Passing or “P” will not be used in the GPA calculation.
4. 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.
5. Concurrent Enrollment classes taken during the spring semester of the student’s senior year will not be used for GPA calculation to determine the Valedictorian and Salutatorian.
Graduation Requirements (Class of 2018-2020)

Graduation Requirements:
St. Vrain Valley Schools deliver high-quality, robust educational experiences for all students by providing rigorous and engaging courses and activities for successful postsecondary preparation. Graduates will complete a minimum of 24.5 credits in grades 9-12 to graduate. Credits must include:

- **English (4.0 credits)**
  - English 9 (1.0)
  - English 10 (1.0)
  - English 11 or AP English Lang & Comp (1.0)
  - English 12, AP English Literature or AP English Lang & Comp (1.0)

- **Social Studies (3.0 credits)**
  - World Geography/History (1.0)
  - US History (1.0)
  - US Government (1.0)

- **Mathematics (3.0 credits)**
  - Algebra 1 or higher

- **Science (3.0 credits)**
  - Biology (1.0)
  - Chemistry (1.0)
  - Additional science (1.0)

- **Physical Education (2.0 credits)**
  - A maximum of 1.0 credit can be waived for participation in school sports, out of district pre-approved sports or activities.

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

- **Fine Arts (0.5 credit)**
  - Visual arts or performing arts

- **Health (0.5 credit)**

- **General Electives (8.0 credits)**
  - General electives, World language, Career Development Center Courses and Concurrent Enrollment classes
  - Courses above the minimum required in English, math, science and social studies
  - Additional courses in PE, art, music, business, technology and family & consumer science
  - Yearbook, Student Council, Speech and Debate, and Newspaper
Graduation Requirements (Class of 2021 and later)

In 2007, the Colorado Legislature passed a bill requiring the development of state high school guidelines, and in 2016 the Colorado State Board of Education approved the state graduation guidelines. Colorado school districts must begin to implement the revised local high school graduation guidelines to meet or exceed the state guidelines with the graduating Class 2021. New Graduation Requirements will be comprised of three components:

1) Credits & Coursework
2) Demonstration of College & Career Readiness
3) Individual Career and Academic Plan (ICAP)

Credits and Coursework:

Graduates will need to complete a total of 24.5 credits in grades 9 - 12 to graduate. Credits must include:

- 4 Credits in English
- 3 Credits in Social Studies
- 0.5 credits in Financial Literacy
- 3 Credits in Mathematics
- 3 Credits in Science
- 0.5 Credits in Practical Arts
- 0.5 Credits in Fine Arts
- 0.05 Credits in Health
- 7.5 Credits in General Electives

Demonstration of College and Career Readiness:

Graduates will demonstrate college or career readiness in both English and Math based on at least ONE measure listed in each concentration:

<table>
<thead>
<tr>
<th>Measure</th>
<th>Description</th>
<th>Minimum Requirement</th>
</tr>
</thead>
</table>
| SAT           | A national college admissions exam. It measures three subjects— English, reading, math. | • English 430  
                |                                                                             | • Math 460        |
| Accuplacer    | A computerized test that assesses reading, writing, math and computer skills. | • English: 18  
                |                                                                             | • Math: 19       |
| ACT           | A national college admissions exam. It measures four subjects— English, reading, math and science. | • English: 18  
                |                                                                             | • Math: 19       |
| ACT Compass   | A computerized test that helps colleges evaluate students’ skills and place them in appropriate courses. | • English: 79  
                |                                                                             | • Math: 63       |
| ACT WorkKeys  | An assessment that tests students’ job skills in applied reading, writing, math and 21st century skills. | • English: Bronze  
                |                                                                             | • Math: Bronze   |
Demonstration of College and Career Readiness continued:

<table>
<thead>
<tr>
<th>Measure</th>
<th>Description</th>
<th>Requirement</th>
</tr>
</thead>
</table>
| AP Exams                     | Tests students’ ability to perform at a college level. Districts choose which AP exams will fulfill this menu option. | • English: 2  
• Math: 2 |
| ASVAB                        | a comprehensive test that helps determine students’ eligibility and suitability for careers in the military. | • English: 31  
• Math: 31 |
| Concurrent Enrollment        | Provides students the opportunity to enroll in postsecondary courses, while simultaneously earning high school and college credit. | • English: passing grade of C or better  
• Math: passing grade of C or better |
| District Capstone            | the culminating exhibition of a student’s project or experience that demonstrates academic and intellectual learning. Capstone projects often include a portfolio of a student’s best work. | • English: Individualized  
• Math: Individualized |
| Industry Certificate         | a credential recognized by business and industry. Industry certificates measure a student’s competency in an occupation, and they validate a knowledge based and skills that show mastery in a particular industry. | • English: Individualized  
• Math: Individualized |
| International Baccalaureate (IB) | - IB exams assess students enrolled in the official IB Diploma Programme. Courses are offered only at authorized IB World Schools. | • English: 4  
• Math: 4 |

Individual Career and Academic Plan (ICAP):
Colorado requires all students to develop and successfully complete an Individual Career and Academic Plan (ICAP) that includes postsecondary college and career interests and goals. The following indicators will assist graduates in exploring successful completion of their ICAP:
• Self-Awareness
• Career Awareness
• Postsecondary Aspirations
• Postsecondary Options
• Environmental Expectations
• Academic Planning
• Employability Skills
• Financial Literacy

More information and a downloadable checklist of graduation requirements can be found at http://svvsd.org/guide-graduation.
### Suggested Freshman Courses

<table>
<thead>
<tr>
<th>Subject</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 9 or English Honors 9</td>
<td></td>
</tr>
<tr>
<td>World History/Geo, World History/Geo Honors or AP Human Geography</td>
<td></td>
</tr>
<tr>
<td>Algebra 1, Geometry or Geometry Honors</td>
<td></td>
</tr>
<tr>
<td>Biology or Biology Honors OR Biology Honors and AP Environmental Science</td>
<td></td>
</tr>
<tr>
<td>World Language—Spanish 1, Chinese 1, French 1 or Elective</td>
<td></td>
</tr>
<tr>
<td>Health &amp; PE</td>
<td></td>
</tr>
<tr>
<td>Study Hall (all 9th are required to take a Study Hall)</td>
<td></td>
</tr>
<tr>
<td>PE, Fine Arts, Practical Arts, Energy, CDC or Elective</td>
<td></td>
</tr>
</tbody>
</table>

### Suggested Sophomore Courses

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

### 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. All 9th graders will be enrolled in a study hall class. 10th graders who are enrolled in at least one AP class, may register for a Study Hall class. 9th and 10th graders may not have a Time Release period.

### Suggested Junior Courses

<table>
<thead>
<tr>
<th>Subject</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 11 or AP English Lang &amp; Composition</td>
<td></td>
</tr>
<tr>
<td>U.S. Government or AP U.S. Government</td>
<td></td>
</tr>
<tr>
<td>Algebra 2, Precalculus w/Trig Honors or Stats &amp; Trig</td>
<td></td>
</tr>
<tr>
<td>Physics or AP Science class</td>
<td></td>
</tr>
<tr>
<td>World Language—Spanish 3, Chinese 3, French 3</td>
<td></td>
</tr>
<tr>
<td>Personal Financial Literacy or Elective, AP or CE (Class of 2021 and beyond)</td>
<td></td>
</tr>
<tr>
<td>Elective—AP or Concurrent Enrollment (CE)</td>
<td></td>
</tr>
<tr>
<td>PE, Fine Arts, Practical Arts, Energy, CDC or Elective</td>
<td></td>
</tr>
</tbody>
</table>

### Suggested Senior Courses

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

### 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. 11th and 12th graders are eligible to take Concurrent Enrollment classes, which are tuition free college classes offered through Front Range Community College or Aims Community College.
**College Admissions**

**College Admissions:**
Students planning to continue their formal education after graduation should keep in mind the following factors upon which college admission is generally based. College information, financial aid, and scholarship information can be found in the Counseling Office or at https://blogs.svvsd.org/mhscounseling2/.

- **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, computed at the end of each semester.

- **Quality of Course Selection**—Colleges closely examine the quality of a student’s record.

- **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 one honors or AP course each year). Some colleges may have additional requirements not listed here.**

- **Colleges want to see 3 years of the same world language subject. For example, Spanish 1, Spanish 2 and Spanish 3.**

- **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.**

- **College Admission Tests**—Colleges also request tests such as the American College Test (ACT) and the Scholastic Aptitude Test (SAT). The state of Colorado requires schools to administer the SAT to all juniors and the PSAT 10 to all sophomores. The Colorado SAT and PSAT 10 is administered at Mead High School in April of each year. The PSAT 10 prepares students for the SAT as well as indicate the probability of success in Advanced Placement courses. Students can also take the PSAT/NMSQT in October of their junior year. The National Merit Scholarship uses the PSAT/NMSQT scores from the junior year only to determine scholarship eligibility. Your Scores Matter!

- **College Essay**—An increasing number of colleges are requesting a college essay as part of the application process. Most colleges will provide an essay topic. Work with your English teacher to produce a quality essay for admissions.

- **Letters of Recommendation**—Some colleges and scholarship donors may request personal letter(s) of recommendation from counselors, teachers, or individuals from the community. Student’s should meet with their counselor to discuss how to request a letter of recommendation. Teachers should be given a month’s notice to write a great letter of recommendation.

- **Co-curricular Activities or Community Service**—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/service 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 students access 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 https://connection.naviance.com/meadhs.
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 Mead Energy Academy is appropriate for students whose career interests are in the production of energy, such as engineering or welding, as well as for those students whose interests lie in a field tangential to energy, such as law, policy or marketing. The MEA is also open to all students whether their future plans include a two or four-year college degree, or direct entry into the workforce.
About the MEA Program

Completion of the MEA program will require 5 core courses: Geographic Information Systems (GIS), Principles of Energy Science, and Energy Industry Practices, AP Environmental Science and a Senior Capstone. Students will also be required to select two courses from the following list:

<table>
<thead>
<tr>
<th>AP Chemistry</th>
<th>AP Physics 1</th>
<th>AP Physics C</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Micro/Macro Economics</td>
<td>AP Biology</td>
<td>AP Statistics</td>
</tr>
<tr>
<td>Marketing</td>
<td>AP English Language and Composition</td>
<td>AP Research</td>
</tr>
<tr>
<td>AP U.S. Government</td>
<td>AP Computer Science Principles</td>
<td>Welding*</td>
</tr>
<tr>
<td>Engineering Tech*</td>
<td>Introduction to Business</td>
<td>Speech **</td>
</tr>
<tr>
<td>Business Law</td>
<td>AP U.S. History</td>
<td>Meteorology</td>
</tr>
<tr>
<td>AP Seminar</td>
<td>Introduction to Programming</td>
<td>Geology</td>
</tr>
<tr>
<td>AP Calculus</td>
<td>Energy Systems &amp; Technology</td>
<td>Start Your Own Business</td>
</tr>
<tr>
<td>AP Seminar</td>
<td>Econ of Energy</td>
<td>AP, Computer Science</td>
</tr>
<tr>
<td>AP Calculus</td>
<td>AP Computer Science Fund</td>
<td></td>
</tr>
</tbody>
</table>

This list is subject to change

*CDC class
**FRCC class

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.

Energy Academy Sample Pathways

9th-12th Grade Pathway One

12
Geographic Information Systems (GIS) /Capstone

11
Energy Electives

10
Energy Industry Fundamentals

9
Principles of Energy

10th-12th Grade Pathway Two

12
Geographic Information Systems (GIS) /Capstone

11
Energy Industry Fundamentals

10
Principles of Energy

10th-12th Grade Pathway Two

12
Geographic Information Systems (GIS) /Capstone

11
Energy Industry Fundamentals

10
Principles of Energy

Ap Environmental Science (May be taken any time)
Advanced Placement and Honors

Why AP?

- Students have the opportunity to dig deeper into subjects that interest them, develop advanced research and communication skills, and learn to tap their creative, problem-solving, and analytical potential.
- See and feel what college work is actually like, while receiving support in a smaller learning environment.
- Eighty-five percent of selective colleges and universities report that a student’s AP experience favorably impacts admission decisions.
- AP courses give students access to rigorous college-level work. AP students build confidence and learn the essential time management and study skills needed for college and career success.
- Students have the potential to earn college credits, for the cost of an exam rather than the excessive cost of college tuition. Research shows students who take AP classes are much more likely than their peers to complete a college degree on time.

What does it take to do well in an Honors/AP course?

Student Guidelines:

- You might think that AP classes are tough, and you might be right. But that doesn’t mean you aren’t up to the task. If you are willing to work hard, you’ll find that the qualities you use in other parts of your life can help you achieve your goals.
- You don’t need to be top of your class to be an AP student, but you’ll want to be prepared for the AP course you choose. Some AP classes have recommended courses you should take first, and all AP courses ask that you come willing to do your best work. To choose an AP course that’s right for you, talk to a counselor or teacher about the subjects that interest you and ask about your options for learning the skills to help you succeed.
- You show your determination when you do the things that matter to you. Think about when you’ve learned or accomplished something you’re really passionate about. You practice until you get it right. You try harder when it’s not easy the first time. The effort pays off and you feel a huge sense of accomplishment when you see how much you can do when you try. That is the kind of commitment that is sought out and rewarded in AP classes, and will help you succeed when you move beyond high school.

Parent Guidelines:

- Encourage your student to join study groups, communicate with their AP teacher and take advantage of resources offered to them for their AP course(s).
- Provide daily time for your student to study for his/her AP course.
- Help your child be mindful of other responsibilities and balance in their life while making AP course decisions.
- Monitor your student’s progress in his/her AP courses. In college, parents don’t have access to student grades without the permission of their child, but in high school you have the opportunity to work with your child and the teacher to ensure success.
Advanced Placement and Honors

College Board Advanced Placement Coursework

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:

<table>
<thead>
<tr>
<th>AP English Language &amp; Composition</th>
<th>AP English Literature</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Human Geography</td>
<td>AP Comparative Government &amp; Politics</td>
</tr>
<tr>
<td>AP Government and Politics: United States</td>
<td>AP United States History</td>
</tr>
<tr>
<td>AP Micro Economics</td>
<td>AP Macro Economics</td>
</tr>
<tr>
<td>AP Psychology</td>
<td>AP Calculus AB</td>
</tr>
<tr>
<td>AP European History</td>
<td>AP Calculus BC</td>
</tr>
<tr>
<td>AP Statistics</td>
<td>AP Biology</td>
</tr>
<tr>
<td>AP Chemistry</td>
<td>AP Environmental Science</td>
</tr>
<tr>
<td>AP Physics 1</td>
<td>AP Physics C</td>
</tr>
<tr>
<td>AP Computer Science Principles</td>
<td>AP Studio Art 2D/3D</td>
</tr>
<tr>
<td>AP Seminar</td>
<td>AP Drawing</td>
</tr>
<tr>
<td>AP Research</td>
<td>AP Spanish Language</td>
</tr>
<tr>
<td>AP Music Theory</td>
<td>AP French Language</td>
</tr>
</tbody>
</table>

Advanced Placement Courses are weighted on a 5.0 scale.

All Advanced Placement courses have a culminating AP Exam in May. Students registering for AP courses are expected to register and take the course exam in May. There is an AP Exam fee associated with each AP Exam. This fee is paid by the student in the spring semester during AP Exam Registration. This is an opportunity for students to receive college credit based on their AP Exam score. For more information about AP courses visit: https://apstudent.collegeboard.org

Honors Coursework

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.

<table>
<thead>
<tr>
<th>English Honors 9</th>
<th>English Honors 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology Honors</td>
<td>Chemistry Honors</td>
</tr>
<tr>
<td>World History/Geography Honors</td>
<td>U.S. History Honors</td>
</tr>
<tr>
<td>Geometry Honors</td>
<td>Algebra 2 Honors</td>
</tr>
<tr>
<td>Pre-Calculus with Trig Honors</td>
<td></td>
</tr>
</tbody>
</table>

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

- 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.
4. Plan and produce communication in various forms.
5. Collaborate to solve a problem. Integrate, synthesize, and make cross-curricular connections.

For more information about the AP Capstone program, please visit: https://lp.collegeboard.org/ap-capstone
Exceptional Learning Services

Exceptional Learning Department (Formally Special Education):

Exceptional Learning Department Staff:

<table>
<thead>
<tr>
<th>Teacher</th>
<th>Area Of Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lisa Lehl</td>
<td>• Special Education Teacher</td>
</tr>
<tr>
<td></td>
<td>• Case manages students with mild/moderate needs</td>
</tr>
<tr>
<td></td>
<td>• Highly qualified in English and Social Studies</td>
</tr>
<tr>
<td>Kathy Oakes</td>
<td>• Special Education Teacher</td>
</tr>
<tr>
<td></td>
<td>• Case manages students with mild/moderate needs</td>
</tr>
<tr>
<td></td>
<td>• Highly qualified in English</td>
</tr>
<tr>
<td>Scott Keenan</td>
<td>• Case manages students with mild/moderate needs</td>
</tr>
<tr>
<td></td>
<td>• Highly qualified in Math</td>
</tr>
<tr>
<td>Jamie Bradt</td>
<td>• Special Education Teacher</td>
</tr>
<tr>
<td></td>
<td>• Case manages students with Autism and mild/moderate needs</td>
</tr>
<tr>
<td></td>
<td>• Highly qualified in English</td>
</tr>
<tr>
<td>Amber Vanzant</td>
<td>• Special Education Teacher</td>
</tr>
<tr>
<td></td>
<td>• Case manages students with significant needs</td>
</tr>
<tr>
<td></td>
<td>• Provides life skills education</td>
</tr>
<tr>
<td>Andrea Wolfe</td>
<td>• School Psychologist/Special Education Facilitator</td>
</tr>
<tr>
<td></td>
<td>• Supports special education team</td>
</tr>
</tbody>
</table>

Philosophy:
Our goal as a department is to provide special education students receiving special education with the individualized instruction they need to help them learn the skills necessary to access their grade level curriculum, and meet their individual goals. These skills include both academic related skills and social emotional related skills. Our program has several models that depend on the level of support each student may need. These models include instruction outside the general education setting, instruction inside the general education setting, co-teaching, push in support and para supported instruction.

Course Description:
Academic Lab
Our department offers a variety of academic labs that are skilled based and support a student’s Individual Education Plan (IEP). These classes are considered instruction outside the general education setting and are required to be listed in a student’s IEP. We offer math, English, social emotional and executive functioning related academic labs. The curriculum for these classes are specifically designed to address to areas needed for students to be successful throughout high school and during their transition.

Global Skills
Global Skills is a class that focuses instruction around social communication and social interaction. This class is designed to meet the educational needs for students identified as having Autism Spectrum Disorder. Students will develop long terms goals that revolve around the development of functional academic skills, communication and interdependence. Throughout the course of this class, students will learn skills in variety of areas that may include: social, academic, daily living, interdependence, sensory/motor, transition and vocational skills. The skills taught in this class will be based upon the individual needs of the students and the goals listed in their IEP.

Student Expectations:
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. 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 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).
COURSE OFFERINGS
## Language Arts Course Sequence

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

<table>
<thead>
<tr>
<th>English 9</th>
<th>English Honors 9</th>
<th>Integrated English 9</th>
<th>Integrated English Honors 9</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>English 10</th>
<th>English Honors 10</th>
<th>Integrated English 10</th>
<th>Integrated English Honors 10</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>English 11</th>
<th>AP English Language and Composition</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>English 12</th>
<th>AP English Literature</th>
<th>AP English Language and Composition</th>
</tr>
</thead>
</table>
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!

**Language Arts**

**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.

**LA114A / LA114B**

INTEGRATED ENGLISH 9

**LA115A / LA115B**

INTEGRATED ENGLISH HONORS 9

This integrated course incorporates the standards for World Geography/History and English 9. Students select Honors or Regular level. Students will be in a classroom with both an English teacher and a Social Studies teacher, supporting, augmenting, and integrating content and skills from both disciplines on a daily basis. A team of two teachers in allows students to garner complex perspectives of the content while receiving individual support on a daily basis. Students will study cultures, world history and literature while discussing and interacting in a larger classroom setting. This setting allows students to utilize teamwork and learn in a unique way. Students will take part in interactive and conversational learning as well as independent inquiry. They will demonstrate their knowledge through projects and group activities as well as argumentative writing. This is a comfortable environment with hands on learning and simulations that put students in the driver’s seat. Students will apply knowledge from one subject to another cohesively, relating knowledge of literature to the era in which it was set, and real world historical and geographical knowledge. This cohesion assists students in understanding the human condition and history of the world to a deeper extent. 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.

At the Honors level, students are expected to use cross-curricular and critical thinking to analyze, synthesize, and evaluate information in great depth. Each Assessment will have more layered and complex requirements that are built to prepare students for the Advanced Placement program.

*This course description has been written by students who have taken the integrated course.

**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.
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*, Stienbeck’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.

LA122A / LA122B
LA123A / LA123B

INTEGRATED ENGLISH 10
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 25 & 26.

This is an integrated course that incorporates the standards for US History and English 10. Students select Honors or Regular level. Students will be in a classroom with both an English teacher and a Social Studies teacher, supporting, augmenting, and integrating content and skills from both disciplines on a daily basis. A team of two teachers allows students to garner complex perspectives of the content while receiving individual support on a daily basis. Students will study United States culture/history and literature while discussing and interacting in a larger classroom setting. This setting allows students to utilize teamwork and learn in a unique way. Students will take part in interactive and conversational learning as well as independent inquiry. They will demonstrate their knowledge through projects and group activities as well as argumentative writing. This is a comfortable environment with hands on learning and simulations that put students in the driver’s seat. Students will apply knowledge from one subject to another cohesively, relating knowledge of literature to the era in which it was set, and real world historical and geographical knowledge. This cohesion assists students in understanding the human condition and history of our nation to a deeper extent. 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.

At the Honors level, students are expected to use cross-curricular and critical thinking to analyze, synthesize, and evaluate information in great depth. Each Assessment will have more layered and complex requirements that are built to prepare students for the Advanced Placement program.

*This course description has been written by students who have taken the integrated course.

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.
**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:** $10 + AP Exam cost  
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:** $10 + AP Exam cost  
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.
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 at Mead High School.**

LA460A / LA460B  
**DEBATE/SPEECH**  
1.0 Credit  
PREREQUISITE: None  
FEE: None ($120 if student decides to enter competitions)  
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/Speech at Mead High School.**

LA426A / LA426B  
**NEWSPAPER**  
1.0 Credit  
PREREQUISITE: None  
FEE: None  
This course will teach students of all grade levels professional writing and communication. Students will maintain an ongoing, online news organization centered around Mead and the surrounding community. The publication will highlight multiple cultural perspectives and be produced in both English and Spanish. Students will read from local, national and international model news organizations, study journalistic ethics and accepted practices, learn about organizational communication, bias, purpose and writing for a targeted audience. There will also be a component of news website design and maintenance. **Students will earn Elective Credit for Newspaper at Mead High School.**
Mathematics Course Sequence

Algebra 1

Geometry
or
Geometry Honors

Algebra 2 Extensions
Algebra 2
Algebra 2 Honors

Trigonometry & Statistics

*Statistics
0.5 credit

AP Statistics

Pre-Calculus w/ Trig Honors

AP Statistics

AP Calculus AB

AP Calculus BC

Support Classes
Teacher recommendation only

Algebra/Geometry Extensions

Intermediate Algebra

Algebra 2 Extensions

*Can be taken concurrently with any other math class (Algebra 2 or higher) as an additional math elective class.
Middle School Math Guidelines for Mead High School

If you are currently in Pre-Algebra and getting a grade of:

- A: ALGEBRA 1
- B: ALGEBRA 1
- C: ALGEBRA 1
- D: ALGEBRA 1 + EXTENSIONS*
- F: ALGEBRA 1 + EXTENSIONS*

*Teacher Recommendation Required

If you are currently in Algebra 1 and getting a grade of:

- A: GEOMETRY HONORS
- B: GEOMETRY
- C: GEOMETRY
- D: RETAKE ALGEBRA 1
- F: RETAKE ALGEBRA 1

If you are currently in Geometry and getting a grade of:

- A: ALGEBRA 2 HONORS
- B: ALGEBRA 2
- C: ALGEBRA 2
- D: RETAKE GEOMETRY
- F: RETAKE GEOMETRY

If you are currently taking Algebra 2 and getting a grade of:

- A: PRE-CALC/TRIG HONORS
- B: TRIGONOMETRY and STATISTICS
- C: RETAKE ALGEBRA 2
- D: RETAKE ALGEBRA 2
- F: RETAKE ALGEBRA 2
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
- AP Calculus BC

**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.

### 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.

MA125
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 / MA125**  
**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:** $10 + AP Exam cost  
An in-depth study of statistics designed to prepared students to take the Advanced Placement test in Statistics. Student 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 w/ Trig Honors  
**FEE:** $10 + AP Exam cost  
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.

**MA510A / MA510B / MA510C**  
**AP CALCULUS BC**  
1.5 Credit—weighted 5.0  
**PREREQUISITE:** Pre-calculus w/ Trig Honors  
**FEE:** $5 + AP Exam cost  
This course is designed for college bound students and is extremely rigorous. Topics include limits and their properties, differentiation rules and instantaneous rates of change, antiderivatives, differential equations, definite integrals, applications of integration, polar and parametric functions, infinite series and sequences, and Taylor polynomial approximations. This course prepares students for the AP Calculus BC 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

Students may register for Ironworks 1 or Ironworks 2 both semesters by requesting a class that has an F and an S at the end of the course #. For example, PE 108F and PE108S would allow a student to have Ironworks 1 during semester 1 and semester 2.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Prerequisite</th>
<th>Fee</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H100</td>
<td>Health</td>
<td>0.5</td>
<td>9th grade</td>
<td>$5</td>
<td>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.</td>
</tr>
<tr>
<td>PE101</td>
<td>Fitness 1: Life Fitness</td>
<td>0.5</td>
<td>None</td>
<td>$5</td>
<td>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.</td>
</tr>
<tr>
<td>PE102</td>
<td>Fitness 2: Aerobic Fitness</td>
<td>0.5</td>
<td>Fitness 1 or Self-Defense/Conditioning</td>
<td>$5</td>
<td>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.</td>
</tr>
<tr>
<td>PE114</td>
<td>Net &amp; Target</td>
<td>0.5</td>
<td>None</td>
<td>$5</td>
<td>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.</td>
</tr>
<tr>
<td>PE113</td>
<td>Invasion &amp; Field Games</td>
<td>0.5</td>
<td>None</td>
<td>$5</td>
<td>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.</td>
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</tbody>
</table>
PE108F or PE108S  
IRONWORKS 1  
0.5 Credit  
PREREQUISITE: None  
FEE: $5  
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. Students may enroll in Ironworks 1 during both semesters by requesting both course numbers: PE108F and PE108S.

PE109F or PE109S  
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. Students may enroll in Ironworks 2 during both semesters by requesting both course numbers: PE109F and PE109S.

PE131  
SELF-DEFENSE / CONDITIONING  
0.5 Credit  
PREREQUISITE: 10th - 12th grade and application required  
FEE: $5  
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  
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.
SVVSD Physical Education Waiver

SVVSD provides the opportunity for a student to waive up to 1.0 physical education credit for participation in a district-sponsored athletic program and/or an approved physical activity outside of the district when specific criteria are met:

- Participation in one (1) SVVSD athletic program at the high school level = .5 credit waiver
- Participation in 72 hours of an appropriate, pre-approved structured and supervised physical activity during an 18 week period outside of the school district = .5 credit waiver

Successfully completing two different sports, the same sport for two seasons, or a combination of the above criteria will allow students to waive a maximum of 1.0 physical education credit.

The activities to waive physical education credit may be met during any of a student’s four years of high school.

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

Additional information on applying for and receiving approval of a physical education credit waiver can be found in district policy, IKF-R, Graduation Requirements-Physical Education Waiver.

*This revised PE waiver will be in effect for incoming 9th graders beginning the 2015-16 school year.

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

- Biology
- Biology Honors

AP Environmental Science

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.

- Chemistry
- Chemistry Honors

AP Environmental Science

Geology

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
- Energy Systems and Technology
- Energy Academy Senior Capstone
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  
Geology  
(10-12)

**Grade 11 & 12 Electives**  
Anatomy & Physiology  
Principles of Energy Science  
Energy Industry Practices  
Energy Systems & Technology  
Energy Academy Sr. Capstone  
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.

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### 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.**

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### SC510A / SC510B / SC510C  
**AP BIOLOGY**

1.5 Credits—weighted 5.0  
PREREQUISITE: Biology and Chemistry  
FEE: $20 + AP Exam cost

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.

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### SC240A  
**ANATOMY & PHYSIOLOGY**

0.5 Credit  
PREREQUISITE: Biology and Chemistry  
FEE: $10

This academically rigorous elective laboratory science course builds on concepts learned in biology and chemistry. 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 tissues and cell chemistry. Emphasis is also placed on healthcare and veterinary careers.
SC130A / SC130B  
CHEMISTRY  
1.0 Credit  
**PREREQUISITE:** Algebra 1 and Biology  
**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 and Biology or Biology Honors  
**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. This class will prepare students for AP Chemistry. There will be a higher emphasis on math and a deeper exploration of topics than a regular chemistry class. The use of a scientific calculator is required.

SC520A / SC520B / SC520C  
AP CHEMISTRY  
1.5 Credits—weighted 5.0  
**PREREQUISITE:** Chemistry or Honors Chemistry and Algebra 2  
**FEE:** $20 + AP Exam cost  
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 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.

SC140A / SC140B  
PHYSICS  
1.0 Credit  
**PREREQUISITE:** Algebra I and Geometry (may be concurrently enrolled in Geometry)  
**FEE:** $10  
This is a laboratory-oriented science course. 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 through observation and experimentation.

SC532A / SC532B  
AP PHYSICS 1  
1.0 Credit—weighted 5.0  
**PREREQUISITE:** Chemistry, concurrent Algebra 2 enrollment  
**FEE:** $20 + AP Exam cost  
This course covers Newtonian mechanics (including rotational dynamics and angular momentum), work, energy, power, mechanical waves and sound, and 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  
**AP PHYSICS C**

1.0 Credits—weighted 5.0  
**PREREQUISITE:** Completion of or concurrently enrolled in AP Calculus  
**FEE:** $20 + AP Exam cost

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 exam. 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.

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:** $20 + AP Exam cost

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, 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. This elective science course is required for Energy Academy accreditation.

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

A 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. Students 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.
# Science

**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. This elective science course is required for Energy Academy accreditation.

**SC137A / SC137B**  
**ENERGY INDUSTRY PRACTICES**  
1.0 Credit  
PREREQUISITE: Principles of Energy Science  
Fees: $10  
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.

**SC237**  
**ENERGY SYSTEMS AND TECHNOLOGY**  
0.5 Credit  
FEE: $10  
This is an elective science course, but strongly recommended for those interested in STEM and Engineering. This course consists of numerous engaging modules providing students with relevant, hands-on experiences with basic electrical, mechanical, and technological systems employed in the traditional and renewable energy industries. From basic tools like calipers, to investigating various systems like AC/DC circuits, hydraulic, pneumatic and thermal systems, this course promises a variety of practical, authentic activities tailored, whenever possible, to each student’s specific area of engineering interest. This is an elective course, but strongly recommended for those interested in STEM and Engineering.

**SC405**  
**ENERGY ACADEMY SENIOR CAPSTONE**  
0.5 Credit  
FEE: $10  
This is the final course required for students wishing to obtain Energy Academy accreditation. All previous Energy Academy course-work culminates with this capstone course. It consists of several elements designed to provide the student with a clear advantage whether s/he is going directly into the workforce or is pursuing further training and/or education. The required components must be related to the students energy career path of interest and will be negotiated with the instructor to include: 1) Research or Fabrication Project, 2) Combined Industry & Academic Internship (minimum of 25 hours), and 3) a Final Presentation, which must include a GIS component, and to be presented in front of a group comprising some combination of Academic, Industry, Community, and School and Academy staff and administration.
Social Studies Course Sequence

9th Grade Social Studies
9th 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 Economics
- AP Comparative Government
- AP European History
- Personal Financial Literacy
- Psychology
- 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
- 1.0 credit of U.S. Government

Class of 2021 and beyond:
- 0.5 credit of Personal Financial Literacy (11th grade)

**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
- Psychology
- Film Studies
- AP Psychology
- AP Macro /Micro Economics
- AP European History
- AP Comparative Gov. & Politics
- AP U.S. Government
- AP Human Geography

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**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.

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**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, see pages 24 & 26.

This is an integrated course that incorporates the standards for World Geography/History and English 9. Students select Honors or Regular level. Students will be in a classroom with both an English teacher and a social studies teacher, supporting, augmenting, and integrating content and skills from both disciplines on a daily basis. A team of two teachers allows students to garner complex perspectives of the content while receiving individual support on a daily basis. Students will study cultures, world history and literature while discussing and interacting in a larger classroom setting. This setting allows students to utilize teamwork and learn in a unique way. Students will take part in interactive and conversational learning as well as independent inquiry. They will demonstrate their knowledge through projects and group activities as well as argumentative writing. This is a comfortable environment with hands on learning and simulations that put students in the driver’s seat. Students will apply knowledge from one subject to another cohesively, relating knowledge of literature to the era in which it was set, and real world historical and geographical knowledge. This cohesion assists students in understanding the human condition and history of the world to a deeper extent. 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.

At the Honors level, students are expected to use cross-curricular and critical thinking to analyze, synthesize, and evaluate information in great depth. Each Assessment will have more layered and complex requirements that are built to prepare students for the Advanced Placement program.

*This course description has been written by students who have taken the integrated course.*
Social Studies

**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.

**SS535A / SS535B  AP HUMAN GEOGRAPHY**

1.0 Credit—weighted 5.0  
**PREREQUISITE:** None  
**FEE:** $10 + AP Exam cost  
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 as 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.

**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 20s and the Great Depression; World War II; The 1950s, Civil Rights and Cold War; The 1960s and Vietnam; and Contemporary America.
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 pages 25 & 26.

This is an integrated course that incorporates the standards for US History and English 10. Students select Honors or Regular level. Students will be in a classroom with both an English teacher and a Social Studies teacher, supporting, augmenting, and integrating content and skills from both disciplines on a daily basis. A team of two teachers allows students to garner complex perspectives of the content while receiving individual support on a daily basis. Students will study United States culture/history and literature while discussing and interacting in a larger classroom setting. This setting allows students to utilize teamwork and learn in a unique way. Students will take part in interactive and conversational learning as well as independent inquiry. They will demonstrate their knowledge through projects and group activities as well as argumentative writing. This is a comfortable environment with hands on learning and simulations that put students in the driver’s seat. Students will apply knowledge from one subject to another cohesively, relating knowledge of literature to the era in which it was set, and real world historical and geographical knowledge. This cohesion assists students in understanding the human condition and history of our nation to a deeper extent. 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.

At the Honors level, students are expected to use cross-curricular and critical thinking to analyze, synthesize, and evaluate information in great depth. Each Assessment will have more layered and complex requirements that are built to prepare students for the Advanced Placement program.

*This course description has been written by students who have taken the integrated course.

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 both 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 20s 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.
### AP U.S. HISTORY
**SS510A / SS510B**
1.0 Credit—weighted 5.0  
**PREREQUISITE:** World Geography/History  
**FEE:** $10 + AP Exam cost  

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.

### U.S. / COLORADO GOVERNMENT
**SS130A / SS130B**
1.0 Credit  
**PREREQUISITE:** U.S. History  
**FEE:** None  

This course prepares students to be active citizens using a working knowledge of government. Topics include the Constitution and the branches of government, as well as federal and local levels of U.S. Government. Other units include the responsibilities of citizenship in the family and community, economics, world political systems, and discovery of a student’s individual political ideology. Students will integrate current news items with textbook chapters for class discussions, and use technology and skills from their English classes to research and present their own views.

### AP U.S. GOVERNMENT & POLITICS
**SS505A / SS505B**
1.0 Credit—weighted 5.0  
**PREREQUISITE:** U.S. History  
**FEE:** $10 + AP Exam cost  

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.

### AP COMPARATIVE GOVERNMENTS & POLITICS
**SS500A / SS500B**
1.0 Credit—weighted 5.0  
**PREREQUISITE:** U.S. History  
**FEE:** $10 + AP Exam cost  

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.
SS531 / SS530  
**AP MICROECONOMICS and AP MACROECONOMICS**

1.0 Credit—weighted 5.0  
PREREQUISITE: US/CO Government or AP US Government  
FEE: $10 + AP Exam cost  
AP Microeconomics and Macroeconomics is similar to a freshman level college course. It is designed to give students a foundation in basic economic concepts that are essential to understanding consumer, business, and public policy decision-making. Areas of study in microeconomics include the market forces of supply and demand, competition, business organization, and consumer behavior. Macroeconomics topics include measuring the health of a nation’s economy, international trade, and debate over the proper level of government interaction with the economy. In addition to providing essential knowledge for successful functioning in today’s challenging economic times, this course also prepares student for the Microeconomics and/or Macroeconomics Advanced Placement Examinations.

SS520A / SS520B  
**AP EUROPEAN HISTORY**

1.0 Credit—weighted 5.0  
PREREQUISITE: 11th or 12th grade  
FEE: $10 + AP Exam cost  
How did Europe become such a powerful region? How did European countries use their power to influence and shape the world? In what ways are European countries still globally influential? Advanced Placement European History covers history from the Renaissance through the 20th Century, focusing on intellectual, cultural, political, diplomatic, social, and economic topics. Through reading, lectures, discussions and analytical research, and writing based on primary sources, students will develop an understanding of the principal themes of modern European history, skills of analysis and historical interpretation, and an ability to express historical understanding in writing. This course prepares students to demonstrate knowledge of major historical concepts, facts and personalities, and document analysis skills for the Advanced Placement European History Exam.

SS525A/ SS525B  
**AP PSYCHOLOGY**

1.0 Credit—weighted 5.0  
PREREQUISITE: None  
FEE: $15 + AP Exam cost  
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 Advanced Placement Psychology Exam.
**Social Studies**

**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.

**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.

### 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 1  
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.
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, as well as exposure 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.

WL500A / WL500B  
**AP FRENCH LANGUAGE**  
1.0 Credit  
**PREREQUISITE:** French 4  
**FEE:** $10 + AP Exam cost  
The AP French Language and Culture course uses real-life situations to build competency in interpretive, interpersonal, and presentational communication in French. The class is taught entirely/mostly in French. Students will focus on improving vocabulary use, language control, and communication strategies, while also growing their cultural awareness of the French-speaking world through engagement with cultural products, such as; art, music, film, celebrations, traditions, values, attitudes and assumptions. This course is recommended for students who have completed French levels 1-4, or for the native speaker with advanced reading and writing skills in French. At the end of the course, students will have the opportunity to take the AP exam and earn college credit based upon their score. The year will culminate with a college level exam administered in French, which includes reading comprehension, listening comprehension, written expression and speaking.

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.

WL510A / WL510B
AP SPANISH LANGUAGE
1.0 Credit
PREREQUISITE: Spanish 4 or Native speaker with advanced reading and writing skills in Spanish
FEE: $10 + AP Exam cost
Taught almost entirely in Spanish, the AP Spanish Language and Culture course uses real-life situations to build students’ competencies in interpretive, interpersonal, and presentational communication in Spanish. Students will focus on improving vocabulary use, language control, and communication strategies, while also growing their cultural awareness of the Spanish-speaking world through engagement with cultural products (art, music, film, etc.), practices (celebrations, traditions, etc.), and perspectives (values, approaches, and assumptions). This course is recommended for students who have completed Spanish levels 1-4, or for the native speaker with advanced reading and writing skills in Spanish. At the end of the course, students will have the opportunity to take the AP exam and earn college credit based upon their score. The exam is administered in Spanish and includes reading comprehension, listening comprehension, written expression and speaking portions.
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.

### MS505A / MS505B AP SEMINAR

**1.0 Credit**

**PREREQUISITE:** 10-12 grade.

**FEE:** $10 + AP Exam cost

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.

### MS510A / MS510B AP RESEARCH

**1.0 Credit**

**PREREQUISITE:** 11-12 grade, AP Seminar and have taken the AP Seminar AP Exam.

**FEE:** $10 + AP Exam cost

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 words, 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—Required classes

**SC136A / SC136B**  
**PRINCIPLES OF ENERGY SCIENCE**  
1.0 Credit (science)  
PREREQUISITE: None  
FEE: $10  
In this fun, hands-on, lab based course, students will obtain an overview of foundational concepts concerning energy production and use. Topics include Resource Consumption and Sustainability, Consumer Electricity, Biomass and Biofuels, Fossil Fuels, Geothermal, Nuclear Energy, Solar Energy, Water and Hydroelectric Power, Wind Power, and Energy Storage Systems. This is an elective science course, but required for students wishing to earn Energy Academy accreditation.

**SC137A / SC137B**  
**ENERGY INDUSTRY PRACTICES**  
1.0 Credit (science)  
FEE: $10  
PREREQUISITE: Principles of Energy Science  
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 (science)  
PREREQUISITE: None (9th & 10th graders must be concurrently enrolled in Biology or Chemistry)  
FEE: $20 + AP Exam cost  
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. This elective science course is required for Energy Academy accreditation.

**MS280**  
**GEOGRAPHIC INFORMATION SYSTEMS (GIS)**  
0.5 credit (elective)  
PREREQUISITE: 11-12 grade.  
FEE: $10  
This introductory GIS course consists of numerous modules providing students with a basic background in the theory and practice of this powerful information mapping tool. Our industry partners applaud this course as a rare and unique high school opportunity offering students a distinct advantage in further academics and the workplace. Units include Geodetic Theory, Topographic Maps, Data and Data Management, Imagery, Spatial Relationships and Analysis, Basic Cartography, Story Maps, 3D Mapping, GIS Apps, GIS on Mobile Devices, Real-Time Dashboards, and Social GIS and Crowdsourcing. This is an elective course, but required for students earning Energy Academy accreditation.

**SC405**  
**ENERGY ACADEMY SENIOR CAPSTONE**  
0.5 Credit (science)  
FEE: $10  
This is the final course required for students wishing to obtain Energy Academy accreditation. All previous Energy Academy course-work culminates with this capstone course. It consists of several elements designed to provide the student with a clear advantage whether s/he is going directly into the workforce or is pursuing further training and/or education. The required components must be related to the students energy career path of interest and will be negotiated with the instructor to include a: 1) Research or Fabrication Project, 2) Combined Industry & Academic Internship (minimum of 25 hours), and 3) a Final Presentation, which must include a GIS component, and to be presented in front of a group comprising some combina-
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 Theatre classes will count toward the Elective category for graduation requirements.

**Beginning Ceramics (A105)**
- **0.5 Credit**
- **PREREQUISITE:** None
- **FEE:** $45
- 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.

**Advanced Ceramics (A107)**
- **0.5 Credit**
- **PREREQUISITE:** Beginning Ceramics
- **FEE:** $45
- 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 excelled in Beginning Ceramics. Students who take this course should have a high level of motivation, diligence, commitment, and independence. 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 sketchbook and prepare their work for showings.

**Beginning Drawing (A110)**
- **0.5 Credit**
- **PREREQUISITE:** None
- **FEE:** $25
- 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, value gradients, portrait art, perspective drawing, and still life. Mediums covered may include: graphite, charcoal, pen & ink, and color pencil.

**Advanced Drawing (A112)**
- **0.5 Credit**
- **PREREQUISITE:** Beginning Drawing
- **FEE:** $30
- This course covers more advanced skills not taught at the beginning level. Experimentation in additional drawing materials and techniques are covered, such as: physical anatomy, figure drawing, portraiture, and conceptual and narrative themes. This course is recommended for students who wish to expand their art portfolio. This class is recommended for students who excelled in Beginning Drawing. Students who take this course should have a high level of motivation, diligence, commitment, and independence. Student 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 sketchbook and prepare their work for showings.

**Beginning Painting (A116)**
- **0.5 Credit**
- **PREREQUISITE:** None
- **FEE:** $30
- 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.
A118  ADVANCED PAINTING
0.5 Credit
PREREQUISITE: Beginning Painting
FEE: $35
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 excelled in Beginning 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 sketchbook 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 principles, the student will apply additive, subtractive, modeling, and assemblage techniques. Media projects include but are not limited to: found object, wire, paper, and clay.

A126  ADVANCED SCULPTURE
0.5 Credit
PREREQUISITE: None
FEE: $30
This class is recommended for students who excelled in Beginning 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 sketchbook 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 plaster. Commitment and willingness to think critically and creatively are essential.

A122  BEGINNING DIGITAL PHOTOGRAPHY
0.5 Credit
PREREQUISITE: None
FEE: $35
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 within the larger context of the art world, and learn about the critical and varied application it has to the modern working world.
A128  BEGINNING STUDIO ART
0.5 Credit
PREREQUISITE: Must have completed a Beginning and an Advanced class for one discipline and teacher approval.
FEE: $30
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.

A500A / A500B  AP STUDIO ART DRAWING
1.0 Credit—weighted 5.0
PREREQUISITE: Advanced Drawing. Teacher approval required.
FEE: $40 + AP Exam cost
Recommended for students who excel in various drawing techniques and media. Students participate in critiques and discussions, complete daily exercises to advance skills, maintain a sketchbook and prepare their work for showings. To obtain college credit, students will prepare and submit a digital portfolio of 24 works that will be concentrated on three sections: Quality, Breadth and Concentration and also submit 5 of their best physical artworks to the AP board.

A505A / A505B  AP STUDIO ART 2D DESIGN
1.0 Credit—weighted 5.0
PREREQUISITE: Advanced Drawing or Advanced Painting. Teacher approval required.
FEE: $40 + AP Exam cost
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 sketchbook and prepare their work for showings. To obtain college credit, students will prepare and submit a digital portfolio of 24 works that will be concentrated on three sections: Quality, Breadth and Concentration and also submit 5 of their best physical artworks to the AP board.

A510A / A510B  AP STUDIO ART 3D DESIGN
1.0 Credit—weighted 5.0
PREREQUISITE: Advanced Ceramics or Advanced Sculpture. Teacher approval required.
FEE: $60 + AP Exam cost
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 sketchbook and prepare their work for showings. To obtain college credit students will prepare and submit a digital portfolio of at least 20 works that will be concentrated on three sections: Quality, Breadth and Concentration.
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**

**LA400**
0.5 Credit
**PREREQUISITE:** None
**FEE:** None
This course provides an introductory experience in drama and live theatre. Its intent is to acquaint the students with basic acting techniques in order to develop self-confidence, performance skills, and an appreciation for live theatre as an art form. Students will gain a basic understanding of the history and development of drama, including improvisation, pantomime, stage movement, blocking, voice and gesture development, and basic stage terms. Students will study, analyze and perform scenes for a classroom audience. This course is content-specific and may not be repeated.

**LA401**
0.5 Credit
**PREREQUISITE:** Previous or concurrent enrollment in Drama 1
**FEE:** $25
Drama students who wish to become involved in the school fall production must enroll in this course through auditions (for dramatic roles) and application (for technical roles). This course will be the in-depth study, design, rehearsal, and performance of a school play. As a cohesive unit, the students in this class will work through all aspects of drama production including acting, blocking, directing, publicity, lighting, sound, set design, and set construction. The course will culminate in the production of a play in the fall. A grade will be determined by participation, performance, and written work (evaluations, journals, reflections, reviews, etc.) Most work will take place during the class, but students will be required to participate outside of class time in November, in preparation for the fall show. Requirement of out of class participation will depend on the size of the students’ role in the production. This course may be repeated for general elective credit.

**MU220**
0.5 Credit
**PREREQUISITE:** Previous or concurrent enrollment in Drama 1 and teacher recommendation through audition (held previous spring)
**FEE:** $25
Drama students who wish to become involved in the school spring musical production must enroll in this course through auditions. This course will be the in-depth study, design, rehearsal, and performance of a school musical. As a cohesive group, the students in this class will work through all aspects of a production including acting, singing, dancing, blocking, directing, publicity, lighting, sound, set design, and set construction. The course will culminate in the production of a musical in the spring. A grade will be determined by participation and written work (evaluations, journals, reflections, reviews, etc.) Most work will take place during the class, but students will be required to participate outside of class time in April, in preparation for the spring show. Requirement of co-curricular participation will depend on the size of the student’s role in the production. Students will be given detailed schedules at the beginning of the semester and every effort will be made to accommodate other school related activity schedules. Students will sign contracts, which outline their levels of commitment at the beginning of the semester.
LA405
0.5 Credit
PREREQUISITE: 10-12 grade. Previous or concurrent enrollment in Drama 1 AND teacher recommendation through application
FEE: $25
This production course is designed for students who enjoy working with technical equipment related to stage and theatre. Students will experience all areas of working a show: safety, sound, lighting designs, lighting operation, and house management. Students will also aide in the research, design, and building of scenery. Students will concentrate on the major areas of theater technology, production, and performance and will gain valuable behind-the-scenes stage experience through the production of the spring production. Three to four weeks of afternoon and evening work are required in addition to class attendance. This course may be repeated for general elective credit. Students will earn Practical Arts credit for Stage Technician Beginner.
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
- AcaPELLA Jazz Choir

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

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**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**  
**WOMEN’S ENSEMBLE (Advanced)**  
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**  
**ACAPPELLA JAZZ CHOIR**  
1.0 Credit  
**PREREQUISITE:** Audition and concurrent enrollment in a performance ensemble. 10th-12th grade  
**FEE:** $20  
AcaPELLA/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: $50
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 throughout the year. Attendance for all performances is required. Concert Band will participate in marching band during the 1st quarter.

MU113F / MU113S
SYMPHONIC BAND
1.0 Credit
PREREQUISITE: Audition
FEE: $50
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 1st quarter.

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: $20
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: $20
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.
Fine Arts—Music

MU132A / MU132B  
SYMPHONIC ORCHESTRA  
1.0 Credit  
PREREQUISITE: Audition  
FEE: $20  
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 ensemble will serve as the orchestra for the spring musical. 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  
Have you ever wanted to play guitar? Here is your chance to bring out your inner rock star or singer-songwriter, even if you have little to no musical experience. In this course, students concentrate on basic guitar performance techniques. They learn varying guitar styles, including folk, blues, and rock. Students learn how to read and write chords and tablature, as well as how to perform chord progressions, transpositions, and strum patterns. Students also learn about famous guitarists from a variety of musical genres. Students are expected to participate on an in-class recital at the end of the semester. In order for each person to be able to hear themselves as they play, everyone must play an acoustic guitar in class. Electric guitars are fine to use at home, however.

MU205  
GUITAR 2  
0.5 Credit  
PREREQUISITE: Completion of Beginning Guitar 1 or teacher recommendation. Students must have their own acoustic guitar and bring it to class.  
FEE: $10  
Guitar 2 expands upon concepts and skills learned in Guitar 1. Students continue to hone their skills by reading and writing chord progressions and tablature, playing in varying styles, and composing their own music. Upon completion of this class, students are able to perform complex chord progressions, melodies, and fingerpicking techniques. Students also learn about famous guitarists from a variety of musical genres. Students are expected to participate on an in-class recital at the end of the semester. In order for each person to be able to hear themselves as they play, everyone must play an acoustic guitar in class. Electric guitars are fine to use at home, however.

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.
Fine Arts—Music

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.

MU500A / MU500B  AP MUSIC THEORY
1.0 Credit—weighted 5.0
PREREQUISITE: One semester of music or teacher approval.
FEE: $60 + AP Exam cost
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.

### Practical Arts—Business

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Prerequisite</th>
<th>Fee</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTE9051</td>
<td>INTRODUCTION TO BUSINESS</td>
<td>0.5</td>
<td>None</td>
<td>None</td>
<td>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.</td>
</tr>
<tr>
<td>CTE9064A / CTE9064B</td>
<td>PRINCIPLES OF MANAGEMENT</td>
<td>1.0</td>
<td>None</td>
<td>None</td>
<td>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.</td>
</tr>
<tr>
<td>CTE9052</td>
<td>PERSONAL FINANCE</td>
<td>0.5</td>
<td>None</td>
<td>None</td>
<td>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 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!</td>
</tr>
<tr>
<td>CTE9072A / CTE9072B</td>
<td>MARKETING</td>
<td>1.0</td>
<td>None</td>
<td>None</td>
<td>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.</td>
</tr>
</tbody>
</table>
**Practical Arts—Business**

**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.

### Practical Arts-Family and Consumer Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
<th>Prerequisite</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTE9413</td>
<td>CULINARY NUTRITION</td>
<td>0.5</td>
<td>None</td>
<td>$20</td>
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<td></td>
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<td>PREREQUISITE: None</td>
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<td>FEE: $20</td>
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<td>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.</td>
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<tr>
<td>CTE9412</td>
<td>FOOD SCIENCE 2</td>
<td>0.5</td>
<td>Culinary Nutrition or Food Science 1</td>
<td>$20</td>
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<td></td>
<td></td>
<td></td>
<td>PREREQUISITE: Culinary Nutrition or Food Science 1</td>
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<td>FEE: $20</td>
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<td>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.</td>
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<tr>
<td>CTE9432</td>
<td>PARENT/CHILD DEVELOPMENT</td>
<td>0.5</td>
<td>None</td>
<td>$10</td>
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<td>PREREQUISITE: None</td>
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<td>FEE: $10</td>
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<td>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.</td>
<td></td>
</tr>
<tr>
<td>CTE9421</td>
<td>LIVING ON YOUR OWN</td>
<td>0.5</td>
<td>11th and 12th grade only</td>
<td>$10</td>
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<td></td>
<td></td>
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<td>PREREQUISITE: 11th and 12th grade only</td>
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<td>FEE: $10</td>
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<td>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.</td>
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</tbody>
</table>
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

Practical Arts—Technology

CTE116
BEGINNING GRAPHIC DESIGN
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.

CTE103
INTRODUCTION TO PROGRAMMING
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.

CTE510A / CTE510B
AP COMPUTER SCIENCE PRINCIPLES
1.0 Credit—weighted 5.0
PREREQUISITE: 10-12 grade
FEE: $10 + AP Exam cost
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.

CTE118
INTRODUCTION TO APPLICATION DEVELOPMENT
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!
Practical Arts—Technology

TE103
MULTIMEDIA

0.5 Credit
PREREQUISITE: None
FEE: None

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.

CTE9054
CAREER EXPLORATION

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.

CTE9018
AIMS CIS 118—INTRO TO PC APPLICATIONS (college class)

0.5 Credit / 3.0 college credits
PREREQUISITE: 11-12 grade
FEE: College textbook and fees (approx. $120-$165)

Introduces computer concepts and components, as well as application-suite software and the Internet. Includes descriptions of and hands-on experiences with word processing, spreadsheets, databases, operating environments and other common PC application packages. This course is a Concurrent Enrollment course through Aims Community College. The SVVSD will pay the college tuition for this course if a grade of C or better is earned. If a student earns a semester grade of a D or F, then the student will have to repay the District the cost of tuition. Students will be responsible for any fees and books associated with this course. Students will earn 3 college credits for CIS 118 at Aims Community College. Student’s will need to complete and submit Concurrent Enrollment paperwork by the SVVSD and Aims CC deadlines. Counselors will assist students with this process.
### General Electives

<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>MS162A / MS162B</td>
<td>STUDENT COUNCIL</td>
<td>1.0</td>
<td>Application</td>
<td>$10</td>
</tr>
<tr>
<td>MS240</td>
<td>GEEK SQUAD</td>
<td>0.5</td>
<td>Recommendation and interview with Mrs. York</td>
<td>None</td>
</tr>
<tr>
<td>MS102</td>
<td>AIDE COUNSELOR</td>
<td>0.25</td>
<td>10-12 grade, 2.75 GPA, 95% attendance and counselor approval</td>
<td>None</td>
</tr>
<tr>
<td>XXXX</td>
<td>AIDE TEACHER/OFFICE</td>
<td>0.25</td>
<td>10-12 grade, 2.75 GPA, 95% attendance and application</td>
<td>None</td>
</tr>
<tr>
<td>WORK STUDY</td>
<td></td>
<td>0.5</td>
<td>11th or 12th grade and application</td>
<td>None</td>
</tr>
</tbody>
</table>

**Student Council**

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.

**GEEK SQUAD**

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.

**AIDE COUNSELOR**

This program is designed for students who wish to gain experience in assisting the 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 from their counselor before enrolling.

**AIDE TEACHER/OFFICE**

Students can register to be an Office or Teacher Aide during the first two weeks of each semester. 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.

**WORK STUDY**

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 before enrolling in Work Study. This class can’t count as one of a students’ six required classes.**
## General Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Requirements</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS191 / MS192</td>
<td>TIME RELEASE PERIOD (TRP)</td>
<td>0.5</td>
<td>1 TRP each Semester = MS191 and MS192</td>
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<tr>
<td>MS193 / MS194</td>
<td></td>
<td>0.5</td>
<td>2 TRP each Semester = MS191, MS192, MS193 and MS194</td>
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<td></td>
<td>PREREQUISITE: 11th—12th only</td>
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<td>FEE: None</td>
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<td>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. Juniors and Seniors must be on track for graduation and enrolled in 3 core classes each semester. Core classes are defined as English, math, science, social studies, world language, AP and Concurrent Enrollment classes. Eligible juniors and seniors may request a maximum of two Time Release Periods each semester. Juniors and seniors must be enrolled in a minimum of 6 classes.</td>
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<tr>
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<th>Credits</th>
<th>Requirements</th>
<th>Fee</th>
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</thead>
<tbody>
<tr>
<td>MS150A / MS150B</td>
<td>STUDY HALL FOR AP (10th grade only)</td>
<td>0.5</td>
<td>10th grade only. Students must be enrolled in at least one AP class.</td>
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<td>FEE: None</td>
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<td>Study Hall for AP gives 10th grade students with an AP class the opportunity to have a self directed Study Hall in the Library. 10th graders must be concurrently enrolled in at least one AP class. Students must stay on campus during this free period. Students are expected to spend this time in the library studying and completing homework. Parent/Counselor approval is required.</td>
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<tr>
<th>Course Code</th>
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<th>Credits</th>
<th>Requirements</th>
<th>Fee</th>
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</thead>
<tbody>
<tr>
<td>MS147F / MS147S</td>
<td>STUDY HALL (9th grade only)</td>
<td>0.5</td>
<td>9th grade only.</td>
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<td>FEE: None</td>
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<td>All 9th graders are required to take a Study Hall class each semester. Students will use this time to study for tests, complete homework and prepare for classes. Parents may choose to opt their student out of study hall to add an eighth class to their schedule. An application to opt out of Study Hall will need to be submitted to administration.</td>
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<tr>
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<th>Credits</th>
<th>Requirements</th>
<th>Fee</th>
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</thead>
<tbody>
<tr>
<td>MS181</td>
<td>TUTOR ELEMENTARY</td>
<td>0.5</td>
<td>11th &amp; 12th grade and Tutor Application; administrative approval and parent permission required</td>
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<td>FEE: None</td>
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<td></td>
<td>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 B5. Pick up an application in the counseling office. Grading is pass/fail for this course.</td>
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<tr>
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<th>Fee</th>
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</thead>
<tbody>
<tr>
<td>MS184</td>
<td>TUTOR MIDDLE SCHOOL</td>
<td>0.5</td>
<td>11th &amp; 12th grade Tutor Application; administrative approval and parent permission required</td>
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<td>FEE: None</td>
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<td></td>
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<td></td>
<td>Students taking this class will tutor middle school level students who need assistance with reading, writing, math, work habits, and other skills. Regular attendance is mandatory and students must provide their own transportation to and from Mead Middle School for each block they are scheduled. This program is only available during blocks A4 and B8. Grading is pass/fail for this course.</td>
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</tbody>
</table>
CONCURRENT ENROLLMENT CLASSES AT MEAD HS
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. 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. Meet with your school counselor for more information.

The following Front Range Community College and Aims Community College classes will be taught at Mead High School during the 2017-2018 school year:

### Front Range Community College

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>College Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS600</td>
<td>COM 115—PUBLIC SPEAKING</td>
<td>0.5</td>
<td>3.0</td>
</tr>
<tr>
<td>PREREQUISITE: 11th and 12th grade only. See your counselor for more information.</td>
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<tr>
<td>FEE: College fees &amp; textbooks</td>
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<tr>
<td>Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery. Three college credits. This class will meet on Tuesday and Thursday during semester 1.</td>
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<tr>
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<th>Credits</th>
<th>College Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS770</td>
<td>ASL 121—AMERICAN SIGN LANGUAGE 1</td>
<td>0.5</td>
<td>5.0</td>
</tr>
<tr>
<td>PREREQUISITE: 11th and 12th grade only. See your counselor for more information.</td>
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<tr>
<td>FEE: College fees &amp; textbooks</td>
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<tr>
<td>Exposes the student to American Sign Language. Readiness activities are conducted focusing on visual/receptive skills and basic communication. Utilizes the direct experience method. Five college credits. This class will meet on Monday, Wednesday and Friday during semester 1.</td>
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<tr>
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<th>College Credits</th>
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</thead>
<tbody>
<tr>
<td>PS771</td>
<td>ASL 122—AMERICAN SIGN LANGUAGE 2</td>
<td>0.5</td>
<td>5.0</td>
</tr>
<tr>
<td>PREREQUISITE: 11th and 12th grade only. See your counselor for more information.</td>
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<tr>
<td>FEE: College fees &amp; textbooks</td>
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<tr>
<td>Develops a basic syntactic knowledge of American Sign Language (ASL), basic vocabulary and basic conversational skills. Incorporates vital aspects of Deaf culture and community. The direct experience method is used to enhance the learning process. Five college credits. This class will meet on Monday, Wednesday and Friday during semester 2.</td>
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<tr>
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<th>Credits</th>
<th>College Credits</th>
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</thead>
<tbody>
<tr>
<td>PS840</td>
<td>SOC 101—INTRODUCTION TO SOCIOLOGY</td>
<td>0.5</td>
<td>3.0</td>
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<tr>
<td>PREREQUISITE: 11th and 12th grade only. See your counselor for more information.</td>
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<tr>
<td>FEE: College fees &amp; textbooks</td>
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<tr>
<td>Examines the basic concepts, theories, and principles of sociology as well as human culture, social groups, and the social issues of age, gender, class, and race. Three college credits. This class will meet on Tuesday and Thursday during semester 2.</td>
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</table>
Concurrent Enrollment—Aims CC

Aims Community College

Students can take CRJ 110 & CRJ 125 during the 1st semester and CRJ 135 & CRJ 145 during the 2nd semester. Upon successful completion of these classes students will receive a Criminal Justice Pathways Level 1 certificate and also will earn 12 college credits towards their A.A and A.A.S Criminal Justice degree.

PS145
CRJ 110—INTRODUCTION TO CRIMINAL JUSTICE
0.5 credit / 3.0 college credits
Aims Community College
PREREQUISITE: 11th and 12th grade only. See your counselor for more information.
FEE: College fees & textbooks
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 will meet on Tuesday and Thursday during semester 1.

PS146
CRJ 125—POLICING SYSTEMS
0.5 credit / 3.0 college credits
Aims Community College
PREREQUISITE: 11th and 12th grade only. See your counselor for more information.
FEE: College fees & textbooks
Examines policing in the United States, including: historical foundations, emerging issues, and the relationship between law enforcement and the community. The various types of law enforcement agencies, their administrative practices, and the behavior of those involved in the delivery of police services are examined from the perspective of democratic values, racial and ethnic diversity, and societal perceptions of police effectiveness. Career requirements, including current and future trends, are also presented. Three college credits. This class will meet on Monday and Wednesday during semester 1.

PS147
CRJ 135—JUDICIAL FUNCTION
0.5 credit / 3.0 college credits
Aims Community College
PREREQUISITE: 11th and 12th grade only. See your counselor for more information.
FEE: College fees & textbooks
Examines the criminal process with an analysis of the major judicial decision-makers, i.e., prosecutors, defense attorneys, judges, and the discretionary aspects of adjudication. Three college credits. This class will meet on Tuesday and Thursday during semester 2.

PS148
CRJ 145—CORRECTIONAL PROCESS
0.5 credit / 3.0 college credits
Aims Community College
PREREQUISITE: 11th and 12th grade only. See your counselor for more information.
FEE: College fees & textbooks
Focuses on the post-conviction corrections process, the development of correctional philosophy, theory, and practice, a description of institutional operation, programming and management, and community-based corrections, probation, and parole. Three college credits. This class will meet on Monday and Wednesday during semester 2.

CTE9018
CIS 118—INTRO TO PC APPLICATIONS
0.5 Credit / 3.0 college credits
PREREQUISITE: 11-12 grade
FEE: College textbook and fees (approx. $120-$165)
Introduces computer concepts and components, as well as application-suite software and the Internet. Includes descriptions of and hands-on experiences with word processing, spreadsheets, databases, operating environments and other common PC application packages. Three college credits. This class is taught by Mr. Palko and will meet on the Mead HS A/B schedule.
Career Development Center

Mead High School students may attend the Career Development Center. Transportation is provided to and from Mead High School and CDC. CDC classes are Career and technical education classes that provide students with both academic preparation and practical knowledge. 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. Entry-level training is provided in classes with students from throughout the St. Vrain Valley School District that encourages students to explore and grow. Some CDC classes are offered as Concurrent Enrollment classes through Front Range Community College.

CONCURRENT ENROLLMENT

Concurrent enrollment is currently available in the Automotive, Health Careers, Multimedia and Welding programs. Additional opportunities may be available in Fall, 2017. Noted classes are Front Range Community College (FRCC) classes and count for both high school and college credit. Please watch the CDC website for more information: cdc.svvsd.org

All 10th, 11th, and 12th grade students enrolled in these classes will need to register through FRCC. Many of the benefits of concurrent enrollment for students and their families include:

- No tuition cost, with the exception of books and/or supplies, as long as the student passes the class with a C or better. Please keep in mind that this is a college class. Excessive absences and poor classroom progress could result in being dropped from the class or not earning a passing grade. If a student does not pass a class with a C or better, tuition costs must be reimbursed to the school district.

- CDC concurrent classes will not count towards the limit of two concurrent classes students are permitted to take at the home high school

Please contact CDC Counselor, Becky Olson, with any questions or concerns.
olson_becky@svvsd.org; 720-494-3964

Career Development Center
1200 S. Sunset Longmont
303-772-3333
cdc.svvsd.org

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, ie. 1&2, 3&4, 5&6, or 7&8.

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. This class meets for only one block every other day. Grades 9–12; 1 Semester (Fall or Spring); 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**, CTE 9328; 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 Semester (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—** (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.) This is a Front Range College class taught at CDC with concurrent credit attached which requires a separate enrollment and registration process for all 10th-12th graders. Grades 9–12; 2 Semesters (full year); 1.0 Elective Credit; Pre-Requisite: N/A

**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.) This is a Front Range College class taught at CDC with concurrent credit attached which requires a separate enrollment and registration process for all 10th-12th graders. Grades 9–12; 2 Semesters (full year); 1.0 Elective Credits; Pre-Requisite: CTE 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.) This is a Front Range College class taught at CDC with concurrent credit attached which requires a separate enrollment and registration process for all 10th-12th graders.
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) This is a Front Range College class taught at CDC with concurrent credit attached which requires a separate enrollment and registration process for all 10th-12th graders.
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 meets for double blocks everyday.
COSMETOLOGY

Hair Styling 1 and 2, CTE 9602 or CTE 9603; This 2 year program includes hair cutting, hairstyling, 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 & II, CTE 9661 or 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 and II, CTE 9721 or 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 & II, CTE 9341 or 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 and II, CTE 9351 or 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. This is a Front Range College class taught at CDC with concurrent credit attached which requires a separate enrollment and registration process for all 10th-12th graders.

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
Career Development Center (CDC)

MULTIMEDIA TECHNOLOGY

Visual Communications/Photoshop, CTE 9025;
Concurrent Credit: Introduction to Visual Communications (MGD117) and Photoshop I (MGD 111)
In Introduction to Visual Communications, students survey visual communications, its history and its impact on society. Students will demonstrate an understanding of the graphic design and illustration fields today, as well as the tools and media used. The Photoshop I class concentrates on the high-end capabilities of Adobe Photoshop as an illustration, design and photo retouching tool. Students explore a wide range of selection and manipulation techniques that can be applied to photos, graphics and videos. Course competencies and outline follow those set out by Adobe as part of their Adobe Certified Associate exams. At the end of this course, students are given the opportunity to take the Adobe Certified Associate exam in Visual Communication Using Adobe Photoshop.
Grades 10–12; 2 Semesters (full year); 2.0 Elective Credits; Pre-Requisite: This is a Front Range College class taught at CDC with concurrent credit attached which requires a separate enrollment and registration process for all 10th-12th graders.

Digital Video Production, CTE 9026;
Concurrent Credit: Digital Video Editing I (MGD164) and Adobe After Effects I (MGD165)
In the Digital Video Editing I course students are introduced to digital non-linear video editing. Students will practice the three elements of filmmaking: pre-production, production, and post-production with an emphasis on post-production techniques including media management, editing tools, titles, motion control, transitions, and special effects. Students will make a variety of films in this class and are encouraged to enter a local film festival.
Is a logical “next step,” Adobe After Effects I provides the fundamental techniques for creating digital motion graphics such as 2D animations, animated logos, video graphics, etc and applies those to video products. Classes cover relevant tools and techniques as well as industry standards, delivery methods and output.
At the end of this course, students are given the opportunity to take the Adobe Certified Associate exam in Visual Communication Using Adobe Premiere Pro.
Grades 10-12th ; 2 Semesters (full year); 2.0 Elective Credits; Pre-Requisite: This is a Front Range College class taught at CDC with concurrent credit attached which requires a separate enrollment and registration process for all 10th-12th graders.

WELDING and FABRICATION

Welding I, II, and III, CTE 9901, CTE 9911, or 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. This is a Front Range College class taught at CDC with concurrent credit attached which requires a separate enrollment and registration process for all 10th-12th graders.
Grades 10–12; 2 Semesters (full year); 2.0 Elective Credits; Pre-Requisite: N/A

Welding students are expected to have good work habits, a mechanical aptitude, good hand-eye coordination, and the ability to tolerate working in cramped conditions, and standing for long periods of time.
Career Development Center (CDC)

Concurrent enrollment is currently available in the Automotive, Health Careers, Multimedia and Welding programs. Additional opportunities may be available in Fall, 2017. Noted classes are Front Range Community College (FRCC) classes and count for both high school and college credit. Please watch the CDC website for more information: [cdc.svvsd.org](http://cdc.svvsd.org)

All 10th, 11th, and 12th grade students enrolled in these classes will need to register through FRCC. Many of the benefits of concurrent enrollment for students and their families include:

- No tuition cost, with the exception of books and/or supplies, as long as the student passes the class with a C or better. Please keep in mind that this is a college class. Excessive absences and poor classroom progress could result in being dropped from the class or not earning a passing grade. If a student does not pass a class with a C or better, tuition costs must be reimbursed to the school district.
- A jump-start in your career
- College credit
- CDC concurrent classes will not count towards the limit of two concurrent classes students are permitted to take at the home high school

Concurrent registration must be completed for both St. Vrain Schools and Front Range Community College

- **St Vrain Valley Schools Concurrent Enrollment Program Agreement:**
  [https://drive.google.com/a/svvsd.org/file/d/0B9uX8ZmVGqbTa0J5RDZSTkFlUHZFNkF4dWc1NldfRk9UZkVZ/view?usp=drive_web](https://drive.google.com/a/svvsd.org/file/d/0B9uX8ZmVGqbTa0J5RDZSTkFlUHZFNkF4dWc1NldfRk9UZkVZ/view?usp=drive_web)

- **Front Range Community College**
  [https://www.frontrange.edu](https://www.frontrange.edu)
  - Apply now
  - Sign up for College Opportunity Fund (COF) Stipend
  - Complete Paperwork
  - Register for classes through CDC

Please contact CDC Counselor, Becky Olson, with any questions or concerns.
[olson_becky@svvsd.org](mailto:olson_becky@svvsd.org); 720-494-3964
SVVSD Innovation Center

industry level classes - labs - experts - certifications

2017 - 2018 Innovation Center Classes

Tech 1: Information Technology Fundamentals
Learn software and hardware support. Build a computer. Get a CompTIA Certification.
CTE106

Developing for AR&VR:
Work with the Microsoft Hololens & HTC Vive. Design in Unity & The Unreal Engine. Build games and environments to use in virtual reality.
CTE81100

Advanced Robotics:
CTE83100

Tech 2: MacOS & iOS
Learn the ins and outs of Macs, iPhones & iPads. Take apart and repair Macs. Get three Apple Certifications.
CTE107

Tricaster Production:
Learn to use video cameras and green screens. Put it all together using the tricaster system. Get certified for live video production.
CTE82100

Start Up
Entrepreneurial Thinking:
Jump into thinking like those who run start ups. Learn the mindset and skills for lifelong profit and success. Kickstart your project, career, our business idea.
CTE80100

Sign up with your counselor NOW!
The Innovation Center prepares students for successful STEM careers by partnering with industry to provide real world work experiences. Our mission is to match highly-skilled students with business, research and development opportunities, fostering analytical and problem-solving skills, encouraging entrepreneurial ambitions, and creating mentorships with experts in the STEM fields. By providing paid positions leading to work experience and intellectual property, we drive a culture of creativity, risk-taking, collaboration and innovation.

Our student designers have been learning from experts in a variety of fields. They are able to build websites, apps for a variety of mobile platforms, electronics, circuitry, robotics, biomedical, aerospace, environmental, structural and mechanical engineering projects. Over the years they have proposed ideas as simple as reinventing the lifejacket and as ambitious as automating the entire operation of a restaurant. They have proven time and again, not only that they can produce professional work, but also, that practical projects solidify knowledge gained in the classroom.

http://innovation.svvsd.org/

Students may request Innovation Center classes. There is limited availability. Transportation to and from the Innovation Center from Mead HS is provided. The Innovation Center classes are located at the Career Development Center (CDC) building. If interested, please discuss this opportunity with your counselor.

**Advanced Robotics - A4 (1:00pm - 2:30pm)**
CTE83100 - One Semester Elective - 0.5 Credit - Open to all 9-12th graders (Course Fee: $20)
*Requires prior approval from the instructor to register
Instructor - Axel Reitzig - reitzig_axel@svvsd.org

This class is designed for students with previous experience with Robotics throughout the district. This class combines design, coding, engineering, and teamwork using VEX Robotics, Robot C, & Solidworks. Students will work collaboratively in small groups to design and create a solution to a specific real-world problem in the field. Students will gain experience working through the engineering design cycle and learn content to help support their development of a solution. Fall students will also be offered the opportunity to compete in the BEST Robotics tournaments. All students will be offered the opportunity to apply to work as a Robotics Leader at the Innovation Center.

**Tech 1: IT Fundamentals - A4 (1:00pm - 2:30pm)**
CTE106 - One Semester Elective - 0.5 Credit - Open to all 9-12th graders
(Students who pass the class will pay for their own certification test - $90)
Instructor - Thom Ingram - ingram_thom@svvsd.org

Tech 1 introduces students to the Information Technology field, including computer hardware & software support, customer service, networking, security, and computer design. Students learn within operating systems such as Windows, Linux, Apple and Android. Students who succeed in this class will be ready to take the CompTIA IT Fundamentals certification.
Tech 2: Apple Mac & iOS Certified Technician - B7 (10:45am - 12:15pm)
CTE107 - One Semester Elective - 0.5 Credit - Open to all 11-12th graders (9th & 10th graders with permission from the instructor)
(Students who pass the class will pay for their own certification test - $60)
Instruction - Thom Ingram - ingram_thom@svvsd.org

Tech 2 is designed for students who have experience with computers, MacOS and iOS. It offers the chance to gain knowledge and skills specific to Apple hardware and software. Those who succeed in this class will be ready to take the Service Fundamentals, ACMT & ACiT certification tests. Students passing these official Apple certifications will be eligible to work on the Innovation Center Tech Team. Graduating certified students will work with Apple representatives to find placement in tech jobs at Apple and on college campuses.

Ice House Entrepreneurial Program - B5 (7:30am - 9:00am)
CTE80100 - One Semester Elective - 0.5 Credit - Open to all 11-12th graders
Instructor - Jeff Lund - lund_jeffrey@svvsd.org
(Course fee to be determined in Spring 2017)

The Ice House Entrepreneurial Student Success Program is a student success course that inspires and engages students with the perseverance and determination of an entrepreneurial mindset needed to succeed academically and in life. This program expands upon "Who Owns the Ice House?" and 'Eight Life Lessons from an Unlikely Entrepreneur' by encompassing student success concepts in the context of an entrepreneurial mindset. The program provides for experiential learning beyond the classroom, making connections, and building relationships that can support students throughout college and beyond.

Developing Augmented & Virtual Environments - B8 (1:00pm - 2:30pm)
CTE 81100 - One Semester Elective - 0.5 Credit - Course Fee $20
Open to all 9-12 graders
Instruction - Thom Ingram - ingram_thom@svvsd.org

This course allows students to develop for augmented and virtual reality. The curriculum is designed by Google and HTC, and uses both Unity and Unreal software to design these environments.

The mixed reality field is currently touted as the next computing platform by companies including Sony, Microsoft, Facebook, Google and HTC, as well as several startups located both here in Boulder County, across the country, and the world. Being able to develop VR and AR environments gives each student a cutting edge knowledge-base in an industry that is in need of talented staff. The average starting salary for a developer in this field is $75,000 a year. Learning in this field allows students to build technical literacy and express creativity in an immersive engaging computer aided design field.

TriCaster Certification Program - SPRING 2018 ONLY - B7 (10:45am - 12:15pm)
CTE 82100 - One Semester Elective - 0.5 Credit - Open to all 11-12th graders
(Students who pass the class will pay for their own certification test - $150)
Instructor - Jeff Lund - lund_jeffrey@svvsd.org

Becoming a NewTek TriCaster Certified Operator is one skill that can help students work within the studio and television world. The course focuses on benefits of certification to include: get hired for better jobs, proving knowledge and skill base, differentiate students in the job field, generate customer interest in future business and services, be recognized by industry professionals, able to work on university campuses that utilize film and TV services, and become qualified to teach TriCaster and 3Play Skills to others. Students will engage in operating a TriCaster system within a studio environment.