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INTRODUCTION
This guide was prepared to help you plan your high school career at Central High School. It contains a brief description of all courses, graduation requirements, and other information important to the planning of your class schedule. It is best utilized as a tool to lay out plans for your entire high school career.

It is the student’s responsibility to choose classes that he/she will commit to. The counselors are responsible for checking graduation requirements and directing students to courses that fulfill the requirements. We strive to combine student choice, academic ability, and preparedness in order to provide each student with an optimum schedule.

GRADES AND REPORT CARDS
Central High School expects the best effort from every student in his/her study and preparation of work assigned to him/her. Final grades indicating the value of work accomplished during each term are posted at the end of that term. Parents or guardians should examine these reports carefully, and are urged to contact teachers with any questions regarding grades.

Mid-term grades are posted on Parent Bridge halfway through each term. Parent/Teacher conferences are held throughout the year. Families are encouraged to contact teachers whenever a concern arises.

Teachers are expected to utilize TeacherVue, the on-line grade report system. Families are encouraged to sign up for this service as grades, attendance, and important messages are updated frequently. Families can also make direct email contact with teachers through ParentVue.

GRADE POINT AVERAGES (GPA)
Grades become a matter of permanent record and are used in computing cumulative Grade Point Average (GPA). Credit is given ONLY at the end of a class. Grades given on the final reports evaluate performance in this manner:

- A = Superior 90% - 100%
- B = Above Average 80% - 89%
- C = Average 70% - 79%
- D = Below Average 60% - 69%
- F = Failure Less than 60%
- I = Incomplete*

* An Incomplete for a grade may be given only with the Principal’s permission. This incomplete grade must be changed to a letter grade within two weeks of the final grade reporting, or it will become an F.

GPA is composed on a basis of A = 4, B = 3, C = 2, D = 1, F = 0. Students who complete an Advanced Placement class may weigh their GPA with A=5, B=4, and C=3. Students must complete the entire AP course in order to earn the weighted grades. Pre AP or college level classes are not weighted.

Credits are generally issued in .5 increments. Exceptions to this apply to courses taken at: CMU, WCCC, Career Center, and/or through the Valley program.

In order to become a valedictorian, a student must have the highest GPA of his/her graduating class at the end of fourth quarter of his/her senior year.

EARNING CREDITS IN SCHOOL DISTRICT 51
1. Credit is granted at the end of each term.
2. Students failing or unsuccessfully completing a required course for graduation will have to make up the failed requirement.
3. A limited number of additional credits may be earned by making arrangements in advance through the Counseling Office. Credits may be earned in the following manner:
   a. Correspondence courses
   b. District 51 On-line
   c. District 51 summer schools
   d. Prior arrangements may be made for students to earn college credits and high school credits concurrently while enrolled in a high school program.

DEFINITIONS
1. The school year consists of 2 terms, which are 18 weeks each in length.
2. A predetermined amount of credit is received at the end of each successfully completed course.
3. Academic courses are considered to be courses generally in the areas of Language Arts, Mathematics, Science, Social Studies, World Languages, and Computer Science.
4. A prerequisite is a course that must be successfully completed before taking certain other courses. For instance, Spanish I is a prerequisite to Spanish II, because a student may not take Spanish II before he/she has successfully completed Spanish I.
5. Required courses are specific courses or courses from a specific academic list.
6. Elective courses are courses that a student may choose in accordance with his/her interests, aptitudes, and future plans.
7. Credits at Central High School are awarded based on Carnegie units.
FULL TIME STATUS

With a rigorous and relevant instructional program as the foundation for student achievement and success, it is critical to support our District 51 instructional program and staff with all available resources and funding. Our District 51 General Fund revenues are generated within the legislation determined by the Colorado School Finance Act. Through the finance act, CDE audits the schedule of every student within District 51 on an annual basis to determine part-time or full-time status. This CDE audit leads to our Per Pupil Operating Revenue (PPOR), a major source for our District 51 revenue from the State of Colorado.

In order for the school district to maintain adequate funding, all students must obtain "Full-Time Status" for the fall semester. Full-Time Status is defined as follows: enrollment in classes a minimum of 6 out of 8 blocks per semester. Due to travel time, a student enrolled in off campus programs (such as: Career Center, Western Colorado Community College, or CMU) must work with their counselor to ensure they have obtained "Full-Time Status."

STUDENT SCHEDULES

Freshmen and sophomores are expected to carry a full schedule throughout the school year. Juniors and seniors in good academic standing may have releases in their schedules. A release may be granted if the student is on track to graduate and the parents/guardians accept responsibility for the student during the unscheduled time. STUDENTS WILL NOT BE ALLOWED TO WANDER AROUND CAMPUS DURING AN OPEN BLOCK.

College Credit Opportunities for District #51 Students

The District is pleased to offer our high school student access to advanced learning opportunities through our partnership with Colorado Mesa University (CMU) and Western Colorado Community College (WCCC). The recent legislation, House Bill 1319, facilitated changes in our college opportunities for high school students. In an effort to increase exposure to college courses that are in alignment with the student’s future career and academic plan (the ICAP), the District is offering the following program to students who meet the set criteria.

Concurrent Enrollment: This program allows qualified 9th-12th grade students to enroll in college courses while attending high school.

The following conditions must be in place in order for a student to enroll concurrently in college courses at Colorado Mesa University and/or WCCC:

1. **College courses must align with the student’s Individual Career and Academic Plan (ICAP)** The ICAP outlines the student’s career goals and aligns his/her high school coursework with future plans. (An example is a student interested in being a Biologist might be eligible to take a college-level Biology course.) Approval to take a college-level course is given by the student’s counselor and designated administrator.

2. **The student must exhaust the course offerings at his/her home high school in the given academic area and any commensurate offerings through the Career Center and/or WCCC’s high school programs and have approval from high school counselor/administrator.** Factors considered in this process include alignment with the student’s ICAP, the student's course schedule and class availability at the high school. For instance, a student interested in Psychology must take AP Psychology at his/her high school in order to take advantage of college offerings in this area.

3. **The student must meet the following academic criteria:**
   - 3.0 or higher cumulative GPA
   - ACT/SAT sub-scores of:
     - 17 Reading/470 Verbal or above - **ALL** students interested in taking a class at Colorado Mesa University must meet this requirement
     - 19/500 or above in Math (for those seeking Math and/or Science courses)
     - 18 English/470 Verbal or above
   - Students may use commensurate ACCUPLACER assessment scores in lieu of the ACT/SAT. The ACCUPLACER is given through CMU’s Testing Center.

***It is the student’s responsibility to pay for ACT/SAT or ACCUPLACER testing

If the above criteria are met, then the student may be eligible to take college level courses from CMU/WCCC. Students may enroll in up to 12 credit hours per year. Many of the science classes have a mandatory lab that is a separate class, but must be taken during the same term as the science lecture course. In this case, the lecture and lab class would be counted as "one" class, but their total credit hours (around 4 or 5) will count against the total 12 credit hours.

Students meeting the above criteria may choose from courses selected from the General Education Courses for Baccalaureate, Associate and Certificate degree programs. This list is very comprehensive, and many disciplines are
represented. Courses (unless otherwise noted) in the list are classified as Guaranteed Transfer (GT) courses according to the Colorado Department of Higher Education (CDHE). GT courses are guaranteed to transfer among any of Colorado’s public colleges and universities.

Students and families are encouraged to plan carefully and to keep in contact with the student’s counselor, as timelines do exist.

**CALCULUS GUIDELINES**

Link to the CMU Math placement guidelines to assess what is needed for Calculus I placement.  
http://www.coloradomesa.edu/mathstat/documents/MathematicsplacementprocedureACTSAT.html

To determine Calc II placement the department does want to see the students’ AP scores to determine which course. As you can see from the AP award guidelines, students who score a 3 on the Calc BC test will place into Calc II; those who score a 4 will place into Calc III.  
http://www.coloradomesa.edu/registrar/documents/APhandout.pdf

**HIGH SCHOOL SCHOLARS**

In a joint venture with Mesa State and District #51, eligible students (9-12) can receive Colorado Mesa University (CMU) and high school credit for taking these courses. They will be taught at the student’s home school by high school teachers, who have met the criteria established by CMU. The student is responsible for class fees and books, but the District will pay the tuition up front. Should the student not earn a final grade of “C” or above, the student will be responsible for reimbursing the District the cost of tuition. The courses offered will be in the areas of math, English, science, and social studies. The courses offered in each building will vary based on student needs, staffing and building schedules.

**TECHNICAL SCHOLARS**

This program provides qualified students the opportunity to take WCCC career & technical education courses in their high school or at WCCC and earn college credits. The courses are available to students attending WCCC as well those enrolled in specific courses at participating high schools. The courses are offered for both high school and college credit. Students may enroll for college credit and earn credit by meeting specific course competencies outlined in each program. The school district pays the tuition for no more than two courses per semester. Technical Scholars students are financially responsible for applying for the College Opportunity Fund (COF) stipend to offset their tuition. Students may apply through their Career Center counselor or WCCC instructor.

**ASCENT PROGRAM**

This program allows students to delay official high school graduation for one year, and attend a participating college/university during their "5th year" of high school. ASCENT provides the opportunity for a student to delay their official high school graduation for one year in order to enroll at Colorado Mesa University/WCCC or a participating institution in a degree or certificate program with the tuition paid for by the school district. The credit hours for which the student is eligible to enroll is contingent upon the funding the District receives from the State.

Students must meet the following criteria in order to be eligible for the ASCENT program:

1. Meet all high school graduation requirements
2. Complete 12 college credits by the end of their senior year
3. Earn a cumulative GPA in the college courses of 2.5 or better
4. File a FAFSA (Free Application for Federal Student Aid) form
5. The college enrollment is part of the student’s ICAP (Individual Career and Academic Plan). The ICAP outlines the student’s career goals and aligns his/her high school coursework with future plans.
6. Agrees to delay high school graduation for one year

If the above criteria are met, the student may be eligible for the ASCENT program.

This program is funded through the State of Colorado, and funding is not guaranteed. The District will fund tuition at either part-time or full-time rates. It is vital that students and families understand that the ASCENT program is contingent upon state funds, and these funds are allotted each summer. Students are strongly advised to apply for admission, scholarships, and financial aid to the college(s) of their choice.
Colorado Mesa University/Western Colorado Community College Courses Approved for Concurrent Enrollment

The following classes are approved as concurrent options for our students. The majority of these classes are from the CMU general education core course offering and are approved by the Colorado Department of Higher Education for statewide guaranteed transfer. There are a select number of courses below that students may take while still enrolled in high school. These courses do not fall under the guaranteed transfer agreement and are noted with **.

**English**
ENGL 111 English Composition  
ENGL 112 English Composition  

**Mathematics**
MATH 113 College Algebra  
MATH 119 Pre-Calculus Mathematics  
MATH 151 Calculus I  
MATH 152 Calculus II  

**History**
HIST 101, 102 Western Civilization  
HIST 131, 132 United States History  

**Humanities**
ENGL 131, 132 Western World Literature I and II  
ENGL 150 Introduction to Literature  
ENGL 222 Mythology  
MASS 110 Mass Media Impact and History  

**Social and Behavioral Sciences**
GEOG 103 World Regional Geography  
POLS 101 American Government  
PSYC 150 General Psychology  

**Fine Arts**
ARTE 101 Two-Dimensional Design  
ARTE 102 Three-Dimensional Design  
ARTE 115 Art Appreciation  

**Natural Sciences**
BIOL 101/101L General Human Biology and Lab  
**BIOL 209/209L Human Anatomy and Physiology**  
**NOTE:** CHEM Placement Test Required for all CHEM Classes  
CHEM 121/121L Principles of Chemistry and Lab  
GEOL 106 Introduction to Dinosaurs  
GEOL 111/111L Principles of Physical Geology and Lab  
PHYS 111/111L General Physics and Lab  

**Other Lower-Division Requirements Applied Studies**
**BUGB 101 Introduction to Business**  
**CISB 101 Business Information Technology**  
**FLAF 111, 112 First-Year French I, II**  
**FLAG 111, 112 First-Year German I, II**  
**FLAS 111, 112 First-Year Spanish I, II**  
**FLAJ 111,112 Beginning Japanese I and II**  

Students and families are encouraged to plan carefully and to keep in contact with the student’s counselor, as timelines must be adhered to in order to facilitate greater access and accommodations.
PERFORMANCE BASED POLICY

Mesa County Valley School District 51 believes that each student is unique and may have different learning needs. In response, the district has developed a system to support and monitor student progress along the way. The system provides a variety of options for students to learn, demonstrate what they know, and meet the graduation requirements. **Mesa County Valley School District 51 is committed to high expectations for all students. We expect each student to complete 25 standards-based credits with a 2.0 GPA or higher and demonstrate through a body of evidence that they are career, college, or military ready.**

Graduation requirements can be designed to adapt to a student’s specific learning needs while setting high expectations for achievement.

Graduation pathways are listed below:

**Colorado high school graduates demonstrate the knowledge and skills (competencies) needed to succeed in postsecondary settings and to advance in career pathways as lifelong learners and contributing citizens. Students must meet English and math proficiencies in their pathway. (See the Menu of College and Career Ready Demonstrations for specific scores.)**

<table>
<thead>
<tr>
<th>CAREER READY</th>
<th>COLLEGE READY</th>
<th>MILITARY READY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workkeys</td>
<td>AP/IB Scores</td>
<td>ASVAB</td>
</tr>
<tr>
<td>Industry Certificate</td>
<td>Concurrent Grades</td>
<td>Workkeys</td>
</tr>
<tr>
<td>Capstone</td>
<td>Capstone</td>
<td>Industry Certificate</td>
</tr>
</tbody>
</table>
Conventional Pathway:

This pathway is the standard pathway to graduation. The student will:

- Complete 25 required standards-based credits*  
  -including 4 classes of intentional ICAP electives. **AND**
- Maintain a 2.0 GPA or higher, **AND**
- Meet the Colorado Graduation Guidelines in English and Math *(see following page).*

Pathway of Distinction:

This pathway provides the highly motivated student opportunities for challenging coursework and additional recognition for their hard work. The student will:

- Complete 25 required standards-based credits*  **AND**
- Maintain a 3.5 GPA or higher, **AND**
- Meet the Colorado Graduation Guidelines in English and Math *(see following page)*
- Meet the Colorado HEAR requirements **AND**
- SAT score of 1110 or higher, or ACT score of 24 or higher
  - Demonstrate “advanced” performance on the NWEA Map Test, **OR**
  - Demonstrate a composite score of 24*** or above on ACT, **OR**
  - Complete an alternative proficiency assessment (APA) during the junior or senior year.

Individualized Pathway:

This pathway allows for adaptation and can be utilized for alternative program students:

- Students needing an individualized program of study as outlined by an individualized graduation plan.
- The student will complete 25 credits aligned with the standards or the equivalent. The 25 credits could include alternative proficiency assessment or extensions of the individualized pathway that allow the student to earn the equivalent of 25 standards-based credits. The Key Performance Program is an example of an individualized pathway.
- Students who have a GPA lower than 2.0.
  - The student will complete 25 required standards-based credits*  **AND**
  - The student will participate in prescribed interventions in their targeted area(s) of deficiency **AND**
  - The student will work with appropriate staff to develop a graduation plan that supports student growth.
High School Graduation Requirements

and

Colorado College Admission Requirements

Students must meet the following District 51 course graduation requirements: *

- 4.0 Credits – English Language Arts
- 3.0 Credits - Social Studies
- 3.0 Credits - Science
- 3.0 Credits - Mathematics (credits must include Algebra I or Math 1 and higher)
- 0.5 Credits - Physical Education
- 0.5 Credits - Personal Fitness and Wellness
- 0.5 Credits - Computer / Technology Literacy (Computer Applications or approved equivalent entry-level class)
- 0.5 Credits - Fine Arts (Instrumental Music, Performing Arts, Visual Arts or Humanities)
- **10.0 Credits** - General Electives

25 Credits (Total)

Note: Within the 25 credits listed above, a student must meet the Financial Literacy requirement by obtaining 0.5 credits in one of the following: Personal Finance, Economics, AP Economics, Independent Living/ Life Management, Wealth Management, or AG Business Management.

Two credits need to be intentional ICAP electives.

Students planning to attend a four-year public college or university in Colorado will need to complete the following credits in order to fulfill the Higher Education Admission Requirements (HEAR):

<table>
<thead>
<tr>
<th>Academic Area</th>
<th>Required Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Language Arts</td>
<td>4.0 credits</td>
</tr>
<tr>
<td>Mathematics** (Must include Algebra I or Math 1 and higher)</td>
<td>4.0 credits**</td>
</tr>
<tr>
<td>Natural/Physical Sciences (Two units must be lab-based)</td>
<td>3.0 credits</td>
</tr>
<tr>
<td>Social Sciences (At least one unit of U.S.)</td>
<td>3.0 credits</td>
</tr>
<tr>
<td>Foreign / World Language***</td>
<td>1.0 credits***</td>
</tr>
<tr>
<td>Academic Electives***</td>
<td>2.0 credits***</td>
</tr>
</tbody>
</table>

**ATTENTION POTENTIAL COLLEGE ATHLETES:** Check with school counselor for NCAA academic eligibility requirements.

Note: Colleges and universities adjust their application standards frequently. Students are encouraged to contact representatives from their college of interest each semester.

* Additional information about specific courses meeting these D51 Graduation Requirements available in the counseling office.

** Mathematics entrance requirements for a four-year public college in Colorado listed in chart directly above.

*** Acceptable Academic Electives include additional courses in English Language Arts, mathematics, natural/physical sciences and social sciences, foreign / world languages, computer science, honors, AP & IB courses, and appropriate CTE courses.
Menu of College and Career-Ready Demonstrations

Local school boards establish high school graduation requirements that meet or exceed the Colorado Graduation Guidelines for the graduating class of 2021.

Local school boards and districts select from this menu to create a list of options their students must use to show what they know or can do in order to graduate from high school, beginning with the graduating class of 2021. School districts may offer some or all of the state menu options, may raise a cut score on an included assessment and may add graduation requirements in other content areas. Graduation Guidelines begin with the implementation of: Individual Career and Academic Plans (ICAP), Colorado Academic Standards for all content areas, including a course in civics, and 21st Century Skills.

Students must demonstrate college or career readiness in English and math based on at least one measure.

<table>
<thead>
<tr>
<th>Menu of Options</th>
<th>English</th>
<th>Math</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCUPLACER</td>
<td>62 on Reading Comprehension</td>
<td>61 on Elementary Algebra</td>
</tr>
<tr>
<td>ACT</td>
<td>18 on ACT English</td>
<td>19 on ACT Math</td>
</tr>
<tr>
<td>ACT Compass</td>
<td>79</td>
<td>63</td>
</tr>
<tr>
<td>ACT WorkKeys - National Career Readiness Certificate</td>
<td>Bronze or higher</td>
<td>Bronze or higher</td>
</tr>
<tr>
<td>Advanced Placement (AP)</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>ASVAB</td>
<td>31</td>
<td>31</td>
</tr>
<tr>
<td>Concurrent Enrollment</td>
<td>Passing grade per district and higher education policy</td>
<td>Passing grade per district and higher education policy</td>
</tr>
<tr>
<td>District Capstone</td>
<td>Individualized</td>
<td>Individualized</td>
</tr>
<tr>
<td>Industry Certificate</td>
<td>Individualized</td>
<td>Individualized</td>
</tr>
<tr>
<td>International Baccalaureate (IB)</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>SAT</td>
<td>430</td>
<td>460</td>
</tr>
<tr>
<td>Collaboratively-developed, standards-based performance assessment</td>
<td>State-wide scoring criteria</td>
<td>State-wide scoring criteria</td>
</tr>
</tbody>
</table>
Credits Needed to Graduate—The following illustrates the number and types of credits needed to graduate from Central High School.

4 Credits  Language Arts—This includes:
- English Composition/Literature 9 or Honors English Composition/Literature 9
- English Composition/Literature 10 or Honors English Composition/Literature 10
- Composition 11 or AP English Language
- Senior English option or AP English Literature
- Language Arts Elective (like Mythology, Creative Writing)

3 Credits  Science—This includes:
- GeoPhysical/Environmental Science or Honors GeoPhysical/Environmental Science
- Biology or Honors Biology
- Third Science-Chemistry or Physics is recommended.

3 Credits  Math—This includes:
- Math I
- Math II
- Math III
- Math IV/Pre-Calc
- AP Calculus/AP Statistics
- Accounting, Business Math, Personal Finance, Tech Math, CMU Math

3 Credits  Social Studies—This includes:
- Global Studies or AP Human Geography or JROTC LET 1 & LET 2
- US History or AP US History
- American Government or AP American Government
- Social Studies Elective (like Law Related Ed, JROTC, Medieval History)

½ Credit  Computer Literacy—This includes:
- Computer Applications

½ Credit  Financial Literacy—This includes:
- Economics, Macro/Micro Economics, or Personal Finance

1 Credit  Physical Education—This includes:
- Personal Fitness & Wellness or JROTC LET III A & B/LET IV A & B or Team Training for one semester
- Choice of PE Class (the majority of students take Freshman PE)

½ Credit  Fine Arts—This includes:
- Art
- Choir
- Band and Orchestra
- Theatre

9 ½ Credits  Electives—This includes:
- Students are encouraged to select elective options that are in-line with their career goals

25 Total Credits
Path of a Warrior Planning Guide

Use this chart as a guide to your high school career. Keep in mind this is only one example, and each student’s schedule will vary.

<table>
<thead>
<tr>
<th>Minimum for graduation</th>
<th>Freshman Year</th>
<th>Sophomore Year</th>
<th>Junior Year</th>
<th>Senior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language Arts</td>
<td>Four Credits</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Comp/Lit 9 or Honors Comp 9 = 1 credit</td>
<td>Comp/Lit 10 or Honors Comp 10 = 1 credit</td>
<td>Comp 11 or AP English Lang = 1 credit</td>
<td>Literature Option = ½</td>
</tr>
<tr>
<td></td>
<td>English Elective = ½</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Math</td>
<td>Math 1-1 credit</td>
<td>Math 2-1 credit</td>
<td>Math 3-1 credit</td>
<td>Math 4-1 credit (for college requirements)</td>
</tr>
<tr>
<td></td>
<td>Three credits</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Science</td>
<td>GeoPhysical/Environmental or Honors GeoPhysical/Environmental = 1 credit</td>
<td>Biology or Pre-AP Biology = 1 credit</td>
<td>Science Option = 1 credit</td>
<td>1 credit (recommended for college)</td>
</tr>
<tr>
<td></td>
<td>Three credits</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Studies</td>
<td>Global Studies or AP Human Geography = 1 credit</td>
<td>Social Studies Elective = ½</td>
<td>US History or AP US History = 1 credit</td>
<td>American Government or AP American Government = ½</td>
</tr>
<tr>
<td></td>
<td>Three credits</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Ed</td>
<td>Freshman PE = ½</td>
<td></td>
<td></td>
<td>Applied Personal Fitness &amp; Wellness = ½</td>
</tr>
<tr>
<td></td>
<td>One credit</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Financial Literacy</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Half Credit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Art I, Choir, Acting, etc. = ½ credit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1/2 credit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Literacy</td>
<td>Computer Apps = ½</td>
<td></td>
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<tr>
<td></td>
<td>1/2 credit</td>
<td></td>
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<tr>
<td>Electives</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9 ½ credit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>*AP Courses *WCCC *Career Center</td>
<td>*AP Courses *WCCC *Career Center</td>
<td>*AP Courses *WCCC *Career Center</td>
<td></td>
</tr>
</tbody>
</table>
## Traditional College-Bound Graduation Plan - The Suggested Courses are in Bold/Red

<table>
<thead>
<tr>
<th>Minimum for graduation</th>
<th>Freshman Year</th>
<th>Sophomore Year</th>
<th>Junior Year</th>
<th>Senior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Language Arts</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Four Credits</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comp/Lit or <strong>Honors</strong> 9 A &amp; B = 1 credit</td>
<td>Comp/Lit or <strong>Honors</strong> 10 A&amp;B = 1 credit</td>
<td>Comp 11 or AP <strong>English Language</strong> Option = 1 credit</td>
<td>Literature Option = ½ or AP <strong>Literature</strong> Option = 1 credit</td>
<td></td>
</tr>
<tr>
<td>English Elective = ½</td>
<td>Forensics = ½</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Math</strong></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Three credits</td>
<td>Math 1-1 credit</td>
<td>Math 2-1 credit</td>
<td>Math 3-1 credit</td>
<td>Math 4-1 credit (for college requirements)</td>
</tr>
<tr>
<td><strong>Science</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Three credits</td>
<td>GeoPhysical/Environmental or <strong>Honors</strong> GeoPhysical/Environmental = 1 credit</td>
<td>Biology or <strong>Honors</strong> Biology = 1 credit</td>
<td>Science Option = 1 Chemistry or Physics recommended</td>
<td>1 additional credit (recommended for college)</td>
</tr>
<tr>
<td><strong>Social Studies</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Three credits</td>
<td>Global Studies or <strong>AP Human Geography</strong> = 1 credit</td>
<td>Social Studies Elective = ½</td>
<td>US History or <strong>AP US History</strong> Option = 1</td>
<td>American Government = ½ or AP American Gvt = 1</td>
</tr>
<tr>
<td><strong>Physical Ed</strong></td>
<td>Freshman PE = ½</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>One credit</td>
<td></td>
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</tr>
<tr>
<td><strong>Financial Literacy</strong></td>
<td></td>
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</tr>
<tr>
<td>Half Credit</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td><strong>Fine Arts</strong></td>
<td>Art I, Choir, Acting, etc. = ½ credit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/2 credit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Computer Literacy</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/2 credit</td>
<td>Computer Apps = ½</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td>*AP Courses *World Language</td>
<td>*AP Courses *WCCC *World Language</td>
<td>*AP Courses *WCCC</td>
<td></td>
</tr>
<tr>
<td>9 ½ credits</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

*AP Courses
*World Language
*WCCC
*WCCC
### Technical Two-Year College-Bound Graduation Plan—The Suggested Courses are in Bold/Red

<table>
<thead>
<tr>
<th>Minimum for graduation</th>
<th>Freshman Year</th>
<th>Sophomore Year</th>
<th>Junior Year</th>
<th>Senior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Language Arts</strong></td>
<td>Comp/Lit or Honors 9 = 1 credit</td>
<td>Comp/Lit or Honors 10 = 1 credit</td>
<td>Comp 11 = 1 credit</td>
<td>12th Literature = ½ credit</td>
</tr>
<tr>
<td>Four Credits</td>
<td>English Elective = ½</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Math</strong></td>
<td>Math 1-1 credit</td>
<td>Math 2-1 credit</td>
<td>Math 3 -1 credit</td>
<td>CMU College Algebra and/or WCCC Tech Math = 1 credit</td>
</tr>
<tr>
<td>Three credits</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Science</strong></td>
<td>GeoPhysical/Environmental or Honors</td>
<td>Biology or Pre-AP Biology = 1 credit</td>
<td>Science Option = 1 credit (Some of the programs at WCCC have Science credit attached to them)</td>
<td></td>
</tr>
<tr>
<td>Three credits</td>
<td>GeoPhysical/Environmental = 1 credit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Social Studies</strong></td>
<td>Global Studies or AP Human Geography = 1 credit</td>
<td>Social Studies Elective = ½ credit</td>
<td>US History = 1 credit</td>
<td>American Government = ½</td>
</tr>
<tr>
<td>Three credits</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Physical Ed</strong></td>
<td>Freshman PE = ½</td>
<td></td>
<td></td>
<td>Applied Personal Fitness &amp; Wellness = ½</td>
</tr>
<tr>
<td>One credit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Financial Literacy</strong></td>
<td>Half Credit</td>
<td></td>
<td>Personal Finance or Economics or Macro/Micro Economics = ½ credit</td>
<td></td>
</tr>
<tr>
<td><strong>Fine Arts</strong></td>
<td>Art I, Choir, Acting, etc. = ½ credit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/2 credit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Computer Literacy</strong></td>
<td>Computer Apps = ½</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/2 credit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td>Technology Ed Coursework</td>
<td>Engineering/Tech = 1 credit</td>
<td>Engineering/Tech = 1 credit</td>
<td>Engineering/Tech = 1 credit</td>
</tr>
<tr>
<td>9 ½ credits</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*WCCC
**NCAA Guidelines**

**STUDENTS INVOLVED IN ACTIVITIES**

In order to participate in activities sanctioned by the Colorado High School Activities Association (CHSAA), a student must be enrolled in a minimum of 3.0 Carnegie Units in any consecutive quarters and pass a minimum of 2.5 Carnegie units each semester while not failing more than 1 class. Eligibility reports are done weekly, and an athlete’s participation in games is contingent upon meeting the eligibility conditions.

The NCAA has approved the following courses for use in establishing the initial-eligibility certification status of student-athletes from Central High School. Courses are reviewed annually by the NCAA.

NCAA legislation permits a student to receive credit for a core course only one time. As a result, if a student repeats a core course, the student will only receive credit once for the core course and the highest grade earned in the course will be included in the calculation of the student’s core-course grade point average. Likewise, if a student completes a course that is duplicative with another core course, the student will only receive credit once for the core course and the highest grade earned in the course will be included in the calculation of the student’s core-course grade point average.

Students must meet academic core course requirements set by the NCAA to be eligible to play collegiate sports. There are different levels of qualifications for Division I and Division II schools. Students must have a minimum 2.3 core GPA along with qualifying SAT/ACT scores. In addition, 10 of the 16 core classes MUST be completed by the end of the junior year of high school, regardless of what the student’s core GPA is.

Student athletes and families are encouraged to visit with coaches and the Athletic Director early in their high school years to plan accordingly! More information can be found at [www.ncaa.org](http://www.ncaa.org)

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<table>
<thead>
<tr>
<th><strong>English</strong></th>
<th><strong>Social Science</strong></th>
<th><strong>Additional Core Courses</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Comp/ Lit 9 A&amp;B</td>
<td>Global Studies A&amp;B</td>
<td>German 1</td>
</tr>
<tr>
<td>Honors Comp/ Lit 9 A&amp;B</td>
<td>AP Human Geography A&amp;B</td>
<td>German 2</td>
</tr>
<tr>
<td>Comp/ Lit 10 A&amp;B</td>
<td>United States History A&amp;B</td>
<td>German 3</td>
</tr>
<tr>
<td>Honors Comp/ Lit 10 A&amp;B</td>
<td>AP United States History A&amp;B</td>
<td>German 4</td>
</tr>
<tr>
<td>Comp/Lit 11 A&amp;B</td>
<td>History A&amp;B</td>
<td>Spanish 1</td>
</tr>
<tr>
<td>AP Lang A&amp;B</td>
<td>American Government</td>
<td>Spanish 2</td>
</tr>
<tr>
<td>AP Lit &amp;B</td>
<td>AP Government &amp; Politics</td>
<td>Spanish 3</td>
</tr>
<tr>
<td>British Lit/ Comp</td>
<td>AP Comparative Government</td>
<td>AP Spanish A&amp;B</td>
</tr>
<tr>
<td>Modern Lit/ Comp</td>
<td>Government</td>
<td></td>
</tr>
<tr>
<td>Creative Writing 9/10</td>
<td>AP Psychology A&amp;B</td>
<td>Spanish for Native Speakers</td>
</tr>
<tr>
<td>Creative Writing 11/12</td>
<td>Sociology</td>
<td></td>
</tr>
<tr>
<td>Mythology 9/10</td>
<td>Colorado History</td>
<td></td>
</tr>
<tr>
<td>Mythology 11/12</td>
<td>Economics</td>
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<tr>
<td>Science Fiction</td>
<td>International Relations</td>
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<tr>
<td>Forensics</td>
<td>Current Events</td>
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<tr>
<td>Forensics II</td>
<td>Law Related Education</td>
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<tr>
<td><strong>Mathematics</strong></td>
<td>Ancient World History</td>
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<tr>
<td>Math 1 A &amp;B</td>
<td>Medieval World History</td>
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</tr>
<tr>
<td>Honors Math 1 A&amp;B</td>
<td>Comparative Religions</td>
<td></td>
</tr>
<tr>
<td>Math 2 A&amp;B</td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td>Honors Math 2 A&amp;B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Math 3 A&amp;B</td>
<td>Environmental Science A&amp;B</td>
<td></td>
</tr>
<tr>
<td>PreCalc A&amp;B</td>
<td>Hon Environ Science A&amp;B</td>
<td></td>
</tr>
<tr>
<td>AP Statistics A&amp;B</td>
<td>Biology A&amp;B</td>
<td></td>
</tr>
<tr>
<td>AP Calculus A&amp;B</td>
<td>AP Biology A-C</td>
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</tr>
<tr>
<td>AP Calculus II A&amp;B</td>
<td>Botany</td>
<td></td>
</tr>
<tr>
<td>CMU Math 113</td>
<td>Chem Comm A&amp;B</td>
<td></td>
</tr>
<tr>
<td>College Algebra A</td>
<td>Chemistry A&amp;B</td>
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<tr>
<td>College Algebra B</td>
<td>AP Chemistry A-D</td>
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<tr>
<td>College Algebra</td>
<td>AP Environ Science A-C</td>
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<tr>
<td>College Trigonometry</td>
<td>Physics A&amp;B</td>
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<tr>
<td>Calculus A</td>
<td>AP Physics A-C</td>
<td></td>
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<tr>
<td>Calculus B</td>
<td>Anatomy &amp; Physiology A&amp;B</td>
<td></td>
</tr>
<tr>
<td><strong>Natural Physical Science</strong></td>
<td>Meteorology</td>
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</tr>
<tr>
<td>Environmental Science A&amp;B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hon Environ Science A&amp;B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biology A&amp;B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Honors Biology A&amp;B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AP Biology A-C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Botany</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chem Comm A&amp;B</td>
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</tr>
<tr>
<td>Chemistry A&amp;B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AP Chemistry A-D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AP Environ Science A-C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physics A&amp;B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AP Physics A-C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anatomy &amp; Physiology A&amp;B</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
GUIDANCE & COUNSELING SERVICES

GUIDANCE & COUNSELING SERVICES
Students may see any counselor on the staff regarding personal issues. For the purposes of educational decisions, registration, and general guidance activities, students are to see their assigned counselor.

Except for unusual circumstances, students should see their counselor before or after school, or between classes, or at lunch. Counselors cannot see students during class unless a teacher has sent the student or the counselor sends for the student. Students may request an appointment by filling out a purple slip in the Counseling office.

CAREER GUIDANCE
Counselors endeavor to provide students with up-to-date occupational and career information. Students should understand that the courses they select often have significant bearing on the options open to them in the future. A career interest survey is available to students upon request; students then receive an in-depth computer analysis of their career interests. A scholarship search program is also available to students.

COLLEGE GUIDANCE
The Central High School College Guidance Program is structured to provide students with strategies for success both in high school and college and ongoing preparation for college admissions. Students are encouraged to choose high school courses and curriculum with their post high school training and/or career goals in mind. To assist students and parents in this exploration, various materials and programs are available. These programs include small group sessions with junior and senior students regarding the details and processes of choosing a college, testing, admissions requirements, and applications for admissions and financial aid. Many colleges send admission representatives to visit the high school each year. Students and families are urged to take advantage of these visitations and other informational programs.

ICAP
The goal of an Individual Career and Academic Plan (ICAP) is to decrease dropout rates and increase graduation rates by assisting students and their parents in developing and maintaining a personalized post-secondary plan that ensures readiness for post-secondary and workforce success.

The elements and activities included in a student's ICAP portfolio help a student link the student's interests, current choices, and achievements to his/her future opportunities in higher education and the world of work. The activities within the student's ICAP portfolio are designed to help the student identify personal strengths using career and interest surveys; explore careers through volunteering and extracurricular activities as well as create opportunities through high school courses for post-secondary education and training.

Central High School uses Naviance to track ICAPs.

NAVIANCE
Naviance is a web-based software program that offers features to help make college and career plans. Organized by three tabs (Colleges, Careers, and About Me), Naviance is a wonderful planning and organization tool for the college process.

Naviance can be accessed from the link on Central’s home page or at https://connection.naviance.com/family-connection/auth/login/?hsid=chsmesa.

- Research Colleges: You can look up colleges by name or search for colleges based on selected criteria. You can compare GPA, standardized test scores, and other statistics to actual historical data from our school for students who have applied and been admitted in the past. You can use Naviance to maintain a list of colleges that you’re considering.

- Research Careers: Explore different careers you are interested in learning more about. If you are undecided you have the opportunity to take personality quizzes to see where your interests and strengths lie in regard to possible career and majors.

- Research Scholarships: Naviance lists scholarships that students can search using the website.

- Organize Your College Application Process: Build a resume, complete on-line surveys, and manage timelines and deadlines for making decisions about colleges and careers.

- Sign-up for College Visits: Find out which colleges are visiting our school and sign up to attend those sessions. Signing up will serve as your pass to be excused from class.

SCHEDULE CHANGE/CLASS ADD-DROP***
Students will have the opportunity to make adjustments to their schedules once a year, before the start of the Fall semester. Schedule changes will only be done for extreme extenuating circumstances once the semester has begun. For those rare situations when classes are changed, the following policy applies:

- Students have the first six (6) days of a term in which to drop a class without it being recorded on their transcript. This applies to both block and split block classes.

- Classes dropped after the 6th day will be recorded on the transcript as either a WP (Withdraw Pass) if they have a passing grade at the time of the drop, or a WF (Withdraw Fail) if the student has a failing grade at the time of the drop. The final day for a student to drop a class without the penalty of receiving a WF will be at the time mid-term grades for that class are available (approximately 4.5 weeks on the block; 9 weeks on the split block). After midterms, all drops will be recorded as a WF, regardless of the grade the student has in that class at the time of the drop. Remember that a WF impacts a student’s GPA in the same manner as an F.
Students may add a class during the first six (6) days of a term. They are responsible for all work presented and completed prior to their enrollment in the class.

Students who wish to enroll in a class after the first six (6) days of a term may do so for the next ten (10) days on an audit basis. However, it will be left to the teacher’s discretion to determine what assignments and competencies need to be demonstrated in order for credit to be awarded. No credit will be awarded to a student who enrolls in a class after the sixteenth (16) day of the term.

**LATE ENROLLMENT POLICY***

Students are expected to be present for the entire school year. Attendance records begin on the first day of a term. Students transferring from other schools should enroll within five days after leaving their previous school. If possible, students will be placed in classes similar to those taken at their previous school. Every effort will be made to create a complete schedule as possible.

School District #51 supports all students in their desire to attend school. Those students enrolling within the first sixteen (16) days of a term will have the opportunity to earn credit. Teachers have the discretion to determine what assignments and competencies need to be demonstrated in order for credit to be earned. There may be circumstances which do not allow a student to enroll prior to the sixteenth (16) day of a term. Students are still encouraged to enroll in school and attend classes for no credit as they prepare for future terms.

***Certain exceptions may apply. Individual circumstances will be taken into consideration with input from teachers, counselors, and parents. The final determination will be made by the administration. (Case managers for Special Education and ELL students will be consulted to determine appropriate placement and credit.)

**EARLY GRADUATION**

Occasionally, students will have all graduation requirements completed by the end of the second term of their senior year. A request form for early graduation may be obtained through the counseling office. All requests must be submitted prior to registration in the spring of the junior year and must be signed by parents, as well as by the student.

If the request is approved, the student will be permitted to graduate early. All early graduates must attend final exam week and complete the first semester. All diplomas are prepared once per year; early graduates will receive their diplomas at the end of fourth term at commencement ceremonies.

If, by dropping a course, a student will be below the minimum hours for his/her grade level, both parents and administration must give approval.

Exceptions to any of the above policies will require administrative approval.

**SENDING TRANSCRIPTS TO COLLEGES AND UNIVERSITIES**

We submit the majority of transcripts electronically through our Naviance system. Transcripts will be mailed to colleges and universities throughout the school year at the written request of the parent or student. The first three transcripts each year are free. A fee of $2.00 will be assessed for each additional transcript.

### 2018-2019 NATIONAL TEST SCHEDULE

Students must register and pay fees one month in advance of the test date. Registration materials are in the Counseling Center or online at: [www.ACTstudent.org](http://www.ACTstudent.org) for the ACT and [www.collegeboard.com](http://www.collegeboard.com) for the SAT.

<table>
<thead>
<tr>
<th>ACT Test Dates</th>
<th>SAT Test Dates (tentative)</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 8, 2018</td>
<td>August 25, 2018</td>
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<tr>
<td>October 20, 2018</td>
<td>October 6, 2018</td>
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<td>December 8, 2018</td>
<td>November 3, 2018</td>
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<tr>
<td>February 19, 2019</td>
<td>December 1, 2018</td>
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<td>April 6, 2019</td>
<td>March 9, 2019</td>
</tr>
<tr>
<td>June 8, 2019</td>
<td>May 4, 2019</td>
</tr>
<tr>
<td>September 13, 2019</td>
<td>June 1, 2019</td>
</tr>
</tbody>
</table>

**COLLEGE PLANNING**

The “Warriors Path to College” college planning book provides a wealth of information for all students on the college planning process. It is available under the Student Services tab under “Choosing a College/Career” tab on our website at [www.chs.mesa.k12.co.us](http://www.chs.mesa.k12.co.us).
ADVANCED PLACEMENT PROGRAM
The Advanced Placement (AP) Program is a program of credit by examination for college-level studies pursued in secondary schools. The underlying premise of the Advanced Placement Program is that college-level courses can be successfully taught to high school students by high school teachers and on high school campuses. Advanced Placement courses make it possible for academically talented students to upgrade the quality and increase the challenge of their studies.

BENEFITS OF THE ADVANCED PLACEMENT PROGRAM ARE:
- Challenges and stimulates students
- Upgrades a student's high school and college program
- Reduces post-secondary costs for families and saves time and money for students
- Accelerates learning
- Rewards achievement
- Individualizes education
- Grades are weighted if the course is completed and the student earns an A, B, or C AND takes the AP End of Year exam

THE FOLLOWING AP COURSES MAY BE OFFERED AT CENTRAL HIGH SCHOOL:

<table>
<thead>
<tr>
<th>AP Computer Principles</th>
<th>AP Biology</th>
<th>AP American Government</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Computer Science</td>
<td>AP Chemistry</td>
<td>AP Comparative Government</td>
</tr>
<tr>
<td>AP English Language</td>
<td>AP Environmental Science</td>
<td>AP Human Geography</td>
</tr>
<tr>
<td>AP English Literature</td>
<td>AP Physics</td>
<td>AP US History</td>
</tr>
<tr>
<td>AP Psychology</td>
<td>AP Statistics</td>
<td>AP Spanish</td>
</tr>
<tr>
<td>AP Calculus</td>
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</tbody>
</table>

GUIDELINES FOR AP STUDENTS

- The most important factor for admittance into AP courses is STUDENT DESIRE! Other factors which can be considered are grades, test scores, teacher recommendations, and parent/guardian requests.
- Student's commitment to meeting the challenge is critical to success.
- Students should expect a significant amount of work outside of class.

**STUDENTS MUST COMPLETE THE ENTIRE AP COURSE AND TAKE THE AP EXAM IN MAY IN ORDER TO RECEIVE THE WEIGHTED GRADE**
### STEM/Engineering Pathway - 9th Grade

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Honors Math 1 &amp; Honors Math 2/Appropriate Math Placement</td>
</tr>
<tr>
<td>Honors English 9/English 9</td>
</tr>
<tr>
<td>AP Human Geography/Global Studies</td>
</tr>
<tr>
<td>Honors Environmental Science</td>
</tr>
<tr>
<td>Physical Ed</td>
</tr>
<tr>
<td>Forensics</td>
</tr>
<tr>
<td>Art</td>
</tr>
<tr>
<td>Introduction to Technology</td>
</tr>
<tr>
<td>Intro to Engineering Design or other Technology Ed course</td>
</tr>
</tbody>
</table>

### STEM/Engineering Pathway - 10th Grade

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Math 3/Appropriate Math Placement</td>
</tr>
<tr>
<td>World Language</td>
</tr>
<tr>
<td>Honors English 10/English 10</td>
</tr>
<tr>
<td>Honors Biology</td>
</tr>
<tr>
<td>AP US History/US History</td>
</tr>
<tr>
<td>Physical Ed</td>
</tr>
<tr>
<td>Computer Applications</td>
</tr>
<tr>
<td>Production of Engineering Design or other Technology Ed course</td>
</tr>
<tr>
<td>Elective Options</td>
</tr>
<tr>
<td>STEM/Engineering Pathway-11th Grade</td>
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<td>-------------------------------------</td>
</tr>
<tr>
<td>Pre-Calculus</td>
</tr>
<tr>
<td>World Language</td>
</tr>
<tr>
<td>AP English Language/English 11</td>
</tr>
<tr>
<td>AP Chemistry/AP Physics</td>
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<tr>
<td>Financial Literacy Requirement</td>
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<tr>
<td>Social Studies Elective</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>STEM/Engineering Pathway-12th Grade</th>
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</thead>
<tbody>
<tr>
<td>AP Calculus 1</td>
</tr>
<tr>
<td>AP Calculus 2</td>
</tr>
<tr>
<td>AP English Literature/English 12</td>
</tr>
<tr>
<td>AP American Government/American Government</td>
</tr>
<tr>
<td>AP Chemistry/AP Physics</td>
</tr>
<tr>
<td>Personal Fitness &amp; Wellness</td>
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<tr>
<td>English Elective</td>
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<tr>
<td>Band/Music Student Pathway-9th Grade</td>
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</tr>
<tr>
<td>Math 1</td>
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<tr>
<td>Honors English 9/English 9</td>
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<tr>
<td>AP Human Geography/Global Studies</td>
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<tr>
<td>Honors Environmental Science/Environmental Science</td>
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<tr>
<td>Computer Applications</td>
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<tr>
<td>Forensics</td>
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<tr>
<td>English Elective</td>
</tr>
<tr>
<td>Warrior Band/Orchestra</td>
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<tr>
<td>Marching Band</td>
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<table>
<thead>
<tr>
<th>Band/Music Student Pathway-10th Grade</th>
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</thead>
<tbody>
<tr>
<td>Math 2</td>
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<tr>
<td>Honors English 10/English 10</td>
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<tr>
<td>Honors Biology/Biology</td>
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<tr>
<td>AP US History/US History</td>
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<tr>
<td>World Language</td>
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<tr>
<td>Social Studies Elective</td>
</tr>
<tr>
<td>Symphonic Band/Orchestra</td>
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<tr>
<td>Marching Band</td>
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<tr>
<td>Elective Option</td>
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<tr>
<td>Band/Music Student Pathway</td>
</tr>
<tr>
<td>---------------------------</td>
</tr>
<tr>
<td>Math 3/AP Statistics</td>
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<tr>
<td>AP English Language/English 11</td>
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<tr>
<td>Chemistry/Third Science Option</td>
</tr>
<tr>
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<tr>
<td>Financial Literacy Requirement</td>
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<tr>
<td>Internship</td>
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<tr>
<td>Elective Option</td>
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<tr>
<td>Choir/Senate/Service Student Pathway-9th Grade</td>
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<tr>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td><strong>Math 1</strong></td>
</tr>
<tr>
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<td>English Elective</td>
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<td>Physical Ed</td>
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<td>Choir/Senate/Service</td>
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<td><strong>Math 2</strong></td>
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<td>Choir/Senate/Service Student Pathway</td>
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<tr>
<td>Internship</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Choir/Senate/Service Student Pathway</th>
<th>12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Calculus/CMU Math/AP Statistics</td>
<td></td>
</tr>
<tr>
<td>AP English Literature/English 12</td>
<td></td>
</tr>
<tr>
<td>AP American Government/American Government</td>
<td></td>
</tr>
<tr>
<td>Science Option</td>
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<tr>
<td>Personal Fitness &amp; Wellness</td>
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<tr>
<td>Choir/Senate/Service</td>
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<tr>
<td>Internship</td>
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</tr>
<tr>
<td>Elective Option</td>
<td></td>
</tr>
</tbody>
</table>
### STEM/Science/Health Care Student Pathway-9th Grade

- Honors Math 1 & Math 2/Appropriate Math Placement
- Honors English 9/English 9
- AP Human Geography/Global Studies
- Honors Environmental Science
- Honors Biology
- Computer Applications
- Forensics
- Physical Ed

### STEM/Science/Health Care Student Pathway-10th Grade

- Math 3/Appropriate Math Placement
- Honors English 10/English 10
- AP Chemistry/Chemistry/Anatomy & Physiology
- AP US History/US History
- World Language
- English Elective
- Social Studies Elective
- Art
<table>
<thead>
<tr>
<th><strong>STEM/Science/Health Care Student Pathway-11th Grade</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Calculus/AP Statistics/CMU Math</td>
</tr>
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<td>AP English Language/English 11</td>
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<td>Internship</td>
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</tr>
<tr>
<td>WCCC Medical Preparation</td>
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<tr>
<td>Internship</td>
</tr>
</tbody>
</table>
### Business Student Pathway-9th Grade

- Math 1
- Honors English 9/English 9
- AP Human Geography/Global Studies
- Honors Environmental Science
- Computer Applications
- Forensics
- Physical Ed
- Production/Computer Communications
- Art
- English Elective

### Business Student Pathway-10th Grade

- Math 2
- Honors English 10/English 10
- AP Chemistry/Chemistry/Anatomy & Physiology
- AP US History/US History
- World Language
- English Elective
- Social Studies Elective
- Business Law
- Business Management
### Business Student Pathway - 11th Grade

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 3</td>
</tr>
<tr>
<td>AP English Language/English 11</td>
</tr>
<tr>
<td>Third Science Option</td>
</tr>
<tr>
<td>World Language</td>
</tr>
<tr>
<td>Personal Finance</td>
</tr>
<tr>
<td>Business Work Experience</td>
</tr>
<tr>
<td>WCCC Marketing</td>
</tr>
<tr>
<td>Internship</td>
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</tbody>
</table>

### Business Student Pathway - 12th Grade

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
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<tr>
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</tr>
<tr>
<td>Science Option</td>
</tr>
<tr>
<td>Personal Fitness &amp; Wellness</td>
</tr>
<tr>
<td>Accounting</td>
</tr>
<tr>
<td>WCCC Marketing</td>
</tr>
<tr>
<td>Internship</td>
</tr>
</tbody>
</table>
### STEM/Career/Technical Student Pathway-9th Grade

- Math 1/Appropriate Math Placement
- English 9
- Global Studies
- Environmental Science
- Computer Applications
- Physical Ed
- JROTC
- Art
- English Elective
- Technology & Engineering Elective

### STEM/Career/Technical Student Pathway-10th Grade

- Math 2/Appropriate Math Placement
- English 10
- Biology
- English Elective
- JROTC
- Technology & Engineering Elective
- Career Center
<table>
<thead>
<tr>
<th>STEM/Career/Technical Student Pathway-11th Grade</th>
</tr>
</thead>
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<td>Math 3/Appropriate Math Placement</td>
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<tr>
<td>WCCC/Career Center</td>
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</tbody>
</table>
Colorado Career Cluster Model

Career Pathways...Connecting Your High School Classes to Careers!

Many of the courses are color-coded to reflect the career pathways the classes fit under. (Keep in mind that many classes fit multiple pathways.) Course names in Red font are core classes! We encourage all students to think about their career interests, and to choose classes that are connected to their future!

***So, if you are thinking about owning your own construction business, it would be good to look for classes with the brown square!

Foundation Knowledge & Skills-□
Agricultural & Natural Resources-□
Business & Public Administration-□
Heath Sciences & Public Safety-□
Hospitality, Human Services & Education-□

These are the core classes which will help you in any career field
Agriculture, energy resources, mining fields
Business, management, legal services, banking, insurance
Medical field, law enforcement
Travel/tourism, teaching, counseling and mental health

Science, Technology, Engineering, Math, Arts, Design & Informational Technology-□
Performing arts, science, computer services, math, engineering


**TEACHER AIDE**

.25 Credit  

*GRADES 10 – 12*

Teacher Aides may receive .25 credits per term. Grades are based on Pass/Fail. A failing grade does factor into GPA. Students who are interested should contact the teacher they wish to assist. Student/Parent/Teacher must sign a contract. Aides must have the approval of their counselor. **Students must also have a 2.0 cumulative GPA.**

If a student adds “teacher aide” to his/her schedule after the 12th day of class, **NO credit** will be awarded. It may be counted as a class for athletic eligibility.

**MIDDLE SCHOOL AIDE**

.25 Credit  

*GRADES 10 - 12*

Teacher Aides may receive .25 credit per term. Grades are based on Pass/Fail. A failing grade does factor into GPA. Students who are interested should contact the teacher they wish to assist. Student/Parent/Teacher must sign a contract. Aides must have the approval of their counselor. Aide paperwork needs to be turned in by the first day of class. **A minimum GPA of 2.5 and a record of good attendance/good behavior is required.**

**OFF-CAMPUS TUTOR**

.5 Credit  

*GRADES 10 - 12*

Prerequisite: Approval by counselor

High school students will mentor elementary and/or middle school students in the areas of reading and writing. High School mentors will follow a prescribed plan for meeting the younger students’ skill deficiencies. High school students are required to provide their own transportation to and from the elementary/middle school. Mentors must have the approval of their grade-level counselor. **A minimum GPA of 2.5 is required.** (If interested in a teaching career in the future, consider doing an internship through School-to-Career in a school setting.)

**SPECIAL COURSE WORK**

**SCHOOL TO CAREER INTERNSHIP**

.5 Credit for every 67 hours  

*GRADES 10 - 12*

The Internship is designed to give students experiential learning in a career interest area. In order to receive .5 elective credit, students must meet standards-based requirements which include: researching career opportunities, working a minimum of 67 hours at a career-related job site, timely completion of written assignments and attending weekly meetings with the School-to-Career Coordinator. A maximum of two elective credits may be earned toward graduation through internship experiences.

If interested, see your counselor for further information.

Internships are granted for student access to career interests. We encourage new experiences for all students. Students cannot earn more than 2 credits as an intern toward graduation. **Letter grades will be awarded. Intern supervisors will not be related to the student.**

**STUDENT SENATE**

.5 Credit Each Term  

*GRADES 9-12*

Prerequisite: Elected to School Office

Student Senate is designed to deal with theoretical and practical applications of human relations. The course is designed to improve the effectiveness of student government, and focuses on the role of the Student Senate and assists student leaders in fulfilling their responsibilities. The time in class will be split between classroom instruction and practical workshops acquiring and using the basic knowledge of leadership and peer helping. The students will develop peer-helping skills, be involved in promotion and running of school events, and work on school and community relations.
This course is designed to serve students who are struggling academically (earning D’s or F’s) in at least two core classes. Students are referred to Study Lab by teachers, counselors, staff members or themselves. Students accepted in Study Lab will work on being successful in their other classes. Study Lab focuses on developing time management, organizational skills and goal setting. In addition, Study Lab will work to build reading comprehension, knowledge of using a textbook and resource materials as well as developing basic computer skills. Mentors may be required to spend additional time outside of class to prepare for the upcoming quarter. General qualifications include: good attendance, solid work habits, good communication skills, successful completion of required 9th and 10th grade courses, GPA of 2.75, desire to work with a wide range of students, and a positive recommendation from a teacher or community member.

**Youth Apprenticeships – Education for the Future!**

Mesa County Valley School District 51 is excited to be in a partnership with CareerWise, a non-profit organization that is creating a unique pathway for Colorado high school students. This Youth Apprenticeship Program generates options for career exploration and allows students to take advantage of the many opportunities that come after graduation.

Youth apprenticeships benefit our students in many ways. Students get to spend part of their days in a real work environment, learning skills that they can carry with them throughout life!

Apprentices get paid to learn! Students in the apprenticeship program receive a training wage for the hours they spend on the job site, learning technical and career readiness skills. This equates to almost $30,000 over the course of the three-year program – what a great college savings plan!

Apprentices can earn high school and college credits through this program. While students are expected to take the core courses they need for graduation through their home high school, they also receive elective credit for the hours they spend at work, allowing them to graduate on time with their peers. Students are expected to meet college-ready benchmarks to take these courses through our Concurrent program, and the school district and employer will pick up the bill. The college credit options vary with internship sites.

The best part is that this program empowers students to make choices and plan for their future. So many students are lost when it comes to what happens after graduation. This program gives students a chance to explore an industry of their interest, and the many career pathways that industry offers. Students come out of this program with a full resume of work experience and connections with adult mentors who can help them network if they want to look at other high-paying job options. Students may also be offered a full-time employment at the end of their apprenticeship, and can choose to stay with the company. Students can pursue a college degree with the jumpstart they have on college coursework. Students can do both! They can continue to work part-time, and go to college part-time. Students can choose to work for a few years, and then go back to college for career advancement. Employers who see potential may even be willing to pay for students to go get an advanced degree in their career field, because it grows the student (their employee) and it creates growth and innovation for their company. It’s really a win-win!

The CareerWise application window is from December-late February.

To learn more, students and families should talk to their student’s counselor to see if being an apprentice makes sense for a student’s career and college path. We are targeting growing Colorado industries: Technology, Finance, Advanced Manufacturing, Healthcare, and Business Operations. If interested, make sure you let your counselor know. Counselors will put students on the applicant list, and will be offering information sessions and application support. Visit www.careerwisecolorado.org to see what it’s all about!
**ACCOUNTING I – A & B**

1.0 Credit

**1A** Introduces students to the principles and practices of accounting for a sole proprietorship. Students will analyze, classify, and record financial transactions according to the accounting equation both manually and electronically.

**1B** Prerequisite: 1A Passed with a C or better — Building on skills learned in 1A students will create journal entries in special journals and subsidiary ledgers. Students will learn the accounting methods for recording sales, inventory, and payroll. Emphasis is placed on posting from a general journal and subsidiary journals to general ledger accounts and auditing results for validity and accuracy. Students will be able to take an industry recognized Quick Books Certification test.

*These courses may be taken for .5 credit each of math; class does not meet the NCAA math requirement.*

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**ADVANCED COMPUTER APPLICATIONS**

.5 Credit

Prerequisite: Computer Applications or pass Challenge Test, or STEM Referral

The student will explore a wide range of uses of spreadsheets and databases with emphasis on using them as business tools. Students will complete integrated projects creating and saving workbooks, entering and using formulas, formatting, creating charts, entering and using functions, managing lists, and creating simple macros. Using Access, the student will utilize databases to create and modify queries, forms, and reports. Additionally, the student will use presentation software with multimedia features. Finally, students will utilize their skills in web page design.

****This class might be able to waive the introductory computer class (CISB 101) at CMU.****

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**ADVANCED PLACEMENT COMPUTER PRINCIPLES**

1.0 Credit

Prerequisite: Teacher Approval

Computer Science Principles Code.org’s Computer Science Principles (CSP) curriculum is a full year, rigorous, entry level course that introduces high school students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing. Computing affects almost all aspects of modern life and all students deserve a computing education that prepares them to pursue the wide array of intellectual and career opportunities that computing has made possible. This course is not a tour of current events and technologies. Rather, this course seeks to provide students with a “future proof” foundation in computing principles so that they are adequately prepared with both the knowledge and skills to live and meaningfully participate in our increasingly digital society, economy, and culture. The Internet and Innovation provide a narrative arc for the course, a thread connecting all of the units. The course starts with learning about what is involved in sending a single bit of information from one place to another and ends with students considering the implications of a computing innovation of their own design.

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**BUSINESS EXPLORATIONS**

.5 Credit

This class is for freshmen and sophomores who are interested in learning the basics about the business world. Content includes the study of current business issues, with an emphasis on business vocabulary. This course will prepare students for upper level business courses. Evaluation is based upon completion of in-class assignments, projects, quizzes, and unit examinations.

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**BUSINESS LAW**

.5 Credit

Prerequisite: None

This course emphasizes the importance of the law in our society and the business and personal law concepts that directly relate to students’ lives today and in the future. Students consider legal issues that are faced by minors, families, consumers, and business people including the organization of the legal system, contract and consumer law, agency and employment law, domestic relations law, and special law issues—property, commercial paper, technology, and the environment.
**BUSINESS MANAGEMENT**

.5 Credit Each  
Prerequisite: None  
**Grades 11-12**

This course develops an understanding of business management operations. It covers areas on advanced business topics, financial applications and analysis, and employer-employee relationships. Strong emphasis is placed on leadership, communications, and managing human resources. The course covers issues pertinent to starting and/or owning a business.

**BUSINESS MATH**

.5 Credit  
Prerequisite: Core Math Credits  
**Grades 11-12**

This course is designed to assist students in learning to use math effectively as a tool in their lives as workers and consumers. Algebraic concepts will be used to assist students in their approach to problem solving in a logical manner. Technology tools such as calculators, spreadsheets and the Internet will be used to address realistic business situations such as personnel, payroll, purchasing, marketing, accounting records, insurance, and business technology. **This course may be taken for .5 level one math credit; this class does not meet the NCAA math requirement.**

**COMPUTER APPLICATIONS**

.5 Credit  
Fee: $10.00  
**Grades 9-12**

This course meets the District graduation requirement for computer literacy. This is a computer laboratory course that will enable students to gain experience using Microsoft Word, Excel, PowerPoint, Publisher, and Outlook. Students will learn about operations systems, application software, windows terminology, disk and file management, word processing applications and formatting spreadsheet features and functions, the application of standard charts and the use of presentation graphs and applications. Students will learn and apply Outlook for electronic mailing functions and applications.

**ECONOMICS**

.5 Credit  
**Grades 11-12**

This class meets the district requirement for Financial Literacy.

The purpose of this course is to help students understand the American economic system of free enterprise so that they will be able to make better financial, employment and business decisions. Students will study how the U.S. economy works by examining the basic elements of the free market system, the interaction of supply and demand, the banking system and national economic policy.

**PERSONAL FINANCE**

.5 Credit  
**Grades 11-12**

This class meets the district requirement for Financial Literacy.

This course emphasizes lifelong decision-making skills in personal financial management: exploring the economic way of thinking, calculating taxes, spending and budgeting, credit and debt, saving and investing, and types of insurance. This course will give a student hands-on experience through computer simulations, websites, and financial calculators, as well as a connection with real-world expertise through guest speakers. **This course may be taken for .5 level one math credit.**

**PROGRAMMING**

.5 Credit  
Prerequisite: Math I completed or STEM referral  
**Grades 10-12**

1A This course introduces programming and applications development for the Microsoft Windows Programming environment using Visual Basic for Windows. Assignments focus on user interfaces, program structure, language syntax, and implementation details.  
1B This course builds on the skills learned in Programming IA. Assignments focus on more involved applications, working with advanced controls, and learning additional programming elements.

**BUSINESS WORK EXPERIENCE - CLASS**

.5 Credit  
Prerequisite: STEM Academy  
**Grades 10-12**

This year-long course is designed for our STEM track students to develop their college portfolio, job shadowing, and earn a paid internship in their field of study.

**WEB DESIGN I**

.5 Credit  
Prerequisite: Math I completed or STEM referral  
**Grades 10-12**

- 35 -
This course will introduce students to designing, creating, editing and maintaining web pages that are easy to use and visually appealing. The use of images, forms, tables, templates, layers and behaviors will be covered. Image editing software will be used to format images for use in web pages.

**ENGLISH AS A SECOND LANGUAGE 1**  
1.0 Credit  
Placement is determined by the WIDA Level and/or teacher recommendation  
ESL students will receive additional time, assistance and instruction by the ESL Teacher to complete Level 1 or Entering level language acquisition curriculum. The ESL Teacher will follow the UCIA ESL curriculum for this course as established.

**ENGLISH AS A SECOND LANGUAGE 2**  
1.0 Credit  
Placement is determined by the WIDA Level and/or teacher recommendation  
ESL students will receive additional time, assistance and instruction by the ESL Teacher to complete Level 2 or Beginning level language acquisition curriculum. The ESL Teacher will follow the UCIA ESL curriculum for this course as established.

**ENGLISH AS A SECOND LANGUAGE 3**  
1.0 Credit  
Placement is determined by the WIDA Level and/or teacher recommendation  
ESL students will receive additional time, assistance and instruction by the ESL Teacher to complete Level 3 or Developing level language acquisition curriculum. The ESL Teacher will follow the UCIA ESL curriculum for this course as established.

**ENGLISH AS A SECOND LANGUAGE 4**  
1.0 Credit  
Placement is determined by the WIDA Level and/or teacher recommendation  
ESL students will receive additional time, assistance and instruction by the ESL Teacher to complete Level 4 or Expanding level language acquisition curriculum. The ESL Teacher will follow the UCIA ESL curriculum for this course as established.

**ESL LEARNING STRATEGIES**  
.5 Credit  
Placement is determined by the WIDA Level and/or teacher recommendation  
ESL students will receive additional time, assistance and instruction by the ESL Teacher to complete any course work. This class will serve as a homework completion and study skills enhancement course.

**ESL INTERVENTION**  
.5 Credit  
Placement is determined by the WIDA Level and/or teacher recommendation  
ESL students will receive additional time, assistance and instruction to address deficiencies in the domain of language acquisition as identified by WIDA ACCESS or a data body of evidence. The ESL Teacher will provide instruction to ESL students who meet specific intervention criteria.
LEADERSHIP EDUCATION TRAINING (LET) PROGRAM

<table>
<thead>
<tr>
<th>COURSE TITLE</th>
<th>YEAR</th>
<th>CREDIT</th>
<th>RECOMMENDED PREREQUISITE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leadership Education Training (LET 1) 2 Terms</td>
<td>9, 10, 11</td>
<td>.5 PE, .5 Social Studies Elective</td>
<td>None</td>
</tr>
<tr>
<td>Leadership Education Training (LET 2) 2 Terms</td>
<td>9, 10, 11, 12</td>
<td>.5 PE, .5 Social Studies Elective</td>
<td>LET 1</td>
</tr>
<tr>
<td>Leadership Education Training (LET 3) 2 Terms</td>
<td>10, 11, 12</td>
<td>.5 Per Term</td>
<td>LET 2</td>
</tr>
<tr>
<td>Leadership Education Training (LET 4) 2 Terms</td>
<td>11, 12</td>
<td>.5 Per Term</td>
<td>LET 3</td>
</tr>
<tr>
<td>Leadership Lab 4 Terms</td>
<td>9, 10, 11, 12</td>
<td>.25 Per Term</td>
<td>None</td>
</tr>
</tbody>
</table>

With coordination and permission from the Senior Army Instructor and high school counselor, students in grades other than what is shown in the year column may be approved for enrollment in the LET 1-4 classes. All levels must be completed in order. Students must pass each level with a C or higher.

JROTC Leadership Education Training (LET) Programs – The program of instruction for the four LET courses (1, 2, 3, 4) is based on a systematic progression of learning that is designed for the cadet’s development at each grade level. The scope, focus and content of the instruction is sequential – it reflects and builds upon the previous year’s curriculum. In addition to the emphasis placed on citizenship and leadership, the development of communicative skills, the incorporation of historical perspectives, the requirement to participate in Cadet Challenge and the significance of drug awareness and prevention are also emphasized. The first three years concentrate on an instructor-taught method of instruction with cadets using textbooks and workbooks. The fourth year concentrates on a self-taught, self-paced method of instruction using a programmed text. The courses are a stimulus for promoting graduation from high school and provide instruction and rewarding opportunities that will benefit the cadet, the community, and the nation.

In addition to the academic curriculum, strong emphasis is placed on the importance of respect and responsibility, teamwork, leadership development, learning/applying organizational skills and community service.

LET-1 Leadership, Character Development, Conflict Resolution, Communication Skills, Beginning Finance, and Citizenship, Success Profiler, Life Focused Skills, Service Learning, and Community Service

This course includes classroom instruction and laboratory instruction in the history, customs, traditions and purposes of Army JROTC. “1” includes the development of basic leadership skills to include leadership principles, values and attributes. Development of core skills students should master, an appreciation for diversity, and active learning strategies are integrated throughout the course. Emphasis is placed on writing skills and oral communications techniques. Physical fitness, diet, nutrition, healthy lifestyles and awareness of substance abuse and prevention an overview of geography and the glove are incorporated. (Also included is a study of the U.S. Constitution, Bill of Rights, responsibilities of U.S. citizens and the federal justice system) classroom instruction and laboratory instruction in teamwork. Maslow’s hierarchy of needs, speaking and writing, developing potential, self-image, self-esteem and personal values, creating your own success, setting goals, and appreciation of music, learning how to “study search” for a career and write a resume, study smart, build a team, resolve conflicts and perform community service.

***LET 1A satisfies the graduation requirement for Global Studies A.


This course includes classroom instruction and laboratory instruction expanding on skills taught in Let 1. (This course introduces equal opportunity and sexual harassment.) It provides instruction on leadership styles and practical time to exercise leadership theories as well as the basic principles of management. Additionally, the course provides self-assessments that help students determine their skill sets and opportunities to teach using accepted principles and methods of instruction. It also emphasizes community projects to assist in drug prevention efforts to include dietary guidelines and fitness and introduces basic map-reading skills. The course discusses the significant events that help shape and develop the Constitution and government and teaches the role of political parties in the election process. Includes instruction in the defining potential, understanding attitude and its relationship to performance, understanding conditioning and motivation, developing success habits ad thought processes, understanding how words and self-image affect performance, learning how to write positive affirmations and use them to affect positive change. Study character education and development and perform a community service project based on what you have learned.

***LET 2A satisfies the graduation requirement for Global Studies B.
LET-3  The Armed Forces, Advanced Leadership, Management, Service Learning, Financial Management, Careers, Orienteering and Military History, Economics, Advanced Leadership, Community Service/Service Learning

This course includes classroom instruction and laboratory instruction expanding on the skills taught in Let 1 and 2. This course allows cadets to investigate the interrelationships of the services while it continues to build their leadership development and decision-making skills. It includes negotiation skills and management principles. It emphasizes staff procedures and provides leadership situations and opportunities to handle various leadership situations as well as preventing violence and managing anger. The research, identification, planning, and execution of service learning activities are included. This course gives cadets the opportunity to apply basic concepts of career exploration strategies and planning. It teaches how to create a career portfolio and plan for college work. Skills for orienteering and/or land navigation are developed. Includes studies in the federal judicial system and how historical events shaped social systems. Emphasis on economics. Students will learn how to manage their finances, budget, save, invest, purchase insurance and manage credit.

LET-4  Expanded Leadership, Mentoring, Emotional Intelligence, Physical Fitness and Environment, Writing Skills, Advanced Citizenship, Community Service/Service Learning

This course includes classroom instruction and laboratory instruction expanding on the skills taught in Let 1-3. The course focuses on creating a positive leadership situation, negotiating, decision-making, problem solving, planning team development, project management, and mentoring. It provides the opportunity to demonstrate leadership potential in an assigned command or staff position within the cadet battalion organizational structure. It includes how to use emotional intelligence in leadership situations as well as how to maintain a positive attitude. It provides instruction on etiquette, daily planning, financial planning, and careers. It includes requirements of the practical application of leadership duties. It emphasizes physical fitness through healthy individual and group competition. The interactions between groups of people and how they affect the area's cultural, economic, and political characteristics are discussed. It explores various methods on determining distance, direction, and locations as well as environmental issues. Concepts of democracy and freedom and how to influence local governments are discussed. Students will learn the basic components of writing to prepare for college English or their career. They will use citizenship action groups to perform community service projects related to government processes. Students are expected to take leadership roles in the community service projects performed based on their high level of leadership development.

LEADERSHIP LAB

Students can choose this course in August.
Why do we teach ELA?

Language and Communication is at the center of our lives. We talk, think, write, and hear through the medium of our language. Therefore, our students need to build the skills necessary to both send and receive information accurately and analytically.

- We teach literature because it’s a record of the human existence and perhaps the most powerful method of conveying a message lies in a story. Through literature, we learn empathy, we learn to question, and we see reflections of ourselves and process how we and those around us can and should grow and strive for “better” or “different”. We want to engage the heart and head.
- We teach non-fiction because our students need to learn to take in information, to understand, analyze, visualize, question—sources and ideas—clarify, and create.
- We teach multi-media because we are bombarded with messages from every direction (overtly and covertly) and we must learn to listen carefully, to analyze, and to question, and to develop our own understandings and conclusions.
- We teach writing and speaking in their various forms because a standard form of communication is essential for clarity. It’s an opportunity for each one of us to discover our voice and have our voice heard.
- We teach the art of discourse and argument, both sending and receiving, because thoughtful and well-informed citizens need a logical and analytical approach to handling the information we receive to understand ourselves and others. Claim, evidence, and reasoning is ever present even when we don’t immediately recognize it as such.

Essentially, we don’t function well on a day-to-day, hour-by-hour, minute-by-minute basis without these skills.

Language Arts requirements for the graduating class of 2015 and beyond are:
- 1 credit from the Level 9 Core Courses - Composition/Literature
- 1 credit from the Level 10 Core Courses - Composition/Literature
- 1 credit from the Level 11 Core Composition Courses or Advanced Placement English Language
- .5 credit from the Level 12 Core Literature Courses
- .5 credit from the elective courses

**Core Courses**

Core courses are courses that are required for all students who are bound for graduation. These courses teach the fundamentals of literature and composition.

**Language Arts Core Courses**

**9th Grade Core**
Composition/Literature 9
Honors Composition/Literature 9

**10th Grade Core**
Composition/Literature 10
Honors Composition/Literature 10

**11th Grade Core**
Composition 11
Advanced Placement English Language 11

**12th Grade Core**
British Literature/Composition
Modern Literature/Composition

Advanced Placement English Literature
Elective courses, offered in addition to core courses, provide enrichment, fulfillment of interest, development of useful life skills, or further competence in a major interest area.

**Language Arts Elective Courses:**

- Beginning Acting
- Advanced Acting
- Forensics-STEM
- Science Fiction
- Creative Writing 9 –10
- Creative Writing 11 – 12
- Forensics 2-STEM
- Mythology 9/10
- Mythology 11/12
- Play Production
- Read/Vocab 9
- Read/Vocab 10
- Theater Arts
- Yearbook-STEM

**CORE CLASSES - LEVEL 9**

**COMPOSITION/LITERATURE 9**

1.0 Language Arts Credit

Prerequisites: None

GRADE 9

This two-term course serves as an introduction to high school language arts instruction. In ninth grade, the learning of reading, writing, thinking, speaking, listening and researching focuses on the concept of perspectives and pursuits. Within this overarching theme, students will explore a variety of texts and genres through close reading and will write narrative, argumentative and informative texts. Students will compare and contrast texts and media that connect cultural and world views while focusing on complex characters and parallel plots, manipulated time, and flashbacks. They will make connections between their own lives and the lives of those they read. They will continue to develop their understanding of rhetoric through their reading, writing, and dialoging. Students will develop speaking skills through effective preparation techniques and develop critical listening skills. Students will continue to research authentic questions so they can orally articulate a claim supported by evidence while differentiating between primary and secondary document sources. They will continue to develop and monitor their own reading, writing, and thinking processes as they read self-chosen texts, write about self-chosen topics, and think about their thinking.

**HONORS COMPOSITION/LITERATURE 9**

1.0 Language Arts Credit

Prerequisites: Teacher recommendation required

GRADE 9

This two-term course is designed for the student willing to exert extra effort in the mastery of literature, writing, discussion, and grammar skills. In addition to the core curriculum designed for Composition/Literature 9, students will engage in an intense vocabulary program based on SAT word pools and will study literature selections that are more difficult and abstract. Discussion of literature will emphasize the seminar approach and enhance critical thinking skills. The students will write in narrative, descriptive, comparative/contrasting, and persuasive modes.

**CORE CLASSES - LEVEL 10**

**COMPOSITION/LITERATURE 10**

1.0 Language Arts Credit

Prerequisites: Completion of Composition/Literature 9

GRADE 10

This is a two-term course with a thematic approach to literature and writing for students who have successfully completed core 9 requirements. In tenth grade, the learning of reading, writing, thinking, speaking, listening and researching focuses on the concept of The American Dream. Within this overarching theme, students will explore a variety of texts and genres through close reading and will write narrative, argumentative and informative texts. Students will compare and contrast texts and media that connect traditional, classical and contemporary themes while focusing on comparing the impact of artistic mediums, thematic or historical contexts. They will make connections between their own lives and the lives of those they read. They will continue to develop their understanding of rhetoric through their reading, writing, and dialoging. Students will develop speaking skills through continued rehearsal techniques and will perform a formal speech. Students will continue to research authentic questions so they can orally articulate a claim supported by evidence while differentiating between primary and secondary document sources. They will continue to develop and monitor their own reading, writing, and thinking processes as they read self-chosen texts, write about self-chosen topics, and think about their thinking.
HONORS COMPOSITION/LITERATURE 10

1.0 Language Arts Credit

Prerequisites: Teacher recommendation encouraged/successful completion of Composition/Literature 9 or Composition/Literature Honors 9

This two-term course is designed for the student willing to exert effort to master literature, writing, and discussion. It provides an excellent foundation for those who plan to take Advanced Placement (AP) Language and Literature courses and for those who desire to enhance their scores on college preparatory exams. The expectations for students taking this class exceed those for students in the standard 10th grade classes. The literature covered is difficult, abstract and comprehensive in nature. The writing expected in this class is extensive and includes a research paper. Concurrent enrollment in Forensics is highly recommended.

CORE COMPOSITION COURSES - LEVEL 11

COMPOSITION 11

1.0 Language Arts Credit

Prerequisites: Successful Composition/Literature 9 and Composition/Literature 10

In eleventh grade, the learning of reading, writing, thinking, speaking, listening and researching focuses on the concept of Freedom and Responsibility. Within this overarching theme, students will explore a variety of historical texts and genres through close reading and will write narrative, argumentative and informative texts. Students will compare and contrast two or more complex characters with different motivations while focusing on comparing the historical contexts. They will make connections between their own lives and the lives of those they read. They will continue to develop their understanding of rhetoric through their reading, writing, and dialoging. Students will research, write, and explore their interests in their chosen career path to meet ICAP requirements. They will develop speaking skills through continued rehearsal techniques and will deliver at least one multimedia presentation. Students will continue to research authentic questions so they can orally articulate a claim supported by evidence while differentiating between primary and secondary document sources. They will continue to develop and monitor their own reading, writing, and thinking processes as they read self-chosen texts, write about self-chosen topics, write on demand, and think about their thinking.

ADVANCED PLACEMENT ENGLISH LANGUAGE

1.0 Language Arts Credit

Prerequisites: Successful completion of previous grade English requirement

This course extends from the Composition/Literature Pre AP 10 curriculum for the student who is extremely skilled in writing and reading. Activities and assignments are designed to prepare the student for the national Advanced Placement Examination in English Language and Composition. The student reads and analyzes major works of nonfiction, including 16th to 21st century speeches, memoirs, letters, plays, and essays. The student also writes valid, articulate analysis of these works, gaining the ability to recognize and appreciate authorial intent, writing structures, and rhetorical subtleties of our English Language. Completion of Forensic or concurrent enrollment is highly recommended. Students must complete both terms to earn extra GPA points.

CORE LITERATURE COURSES - LEVEL 12

ADVANCED PLACEMENT ENGLISH LITERATURE

1.0 Language Arts Credit

Prerequisites: Successful completion of previous grade English requirement

This challenging course for the above average reader and writer is designed to prepare students for the national Advanced Placement Examination in English Literature. Instructional focus is close reading in multiple literary genres including poetry, drama, fiction, and nonfiction. Students learn to evaluate literary merit in its various forms and write critically to support those evaluations, thereby gaining new insight to and appreciation for literature. Students are encouraged to make use of available technology to facilitate editing and drafting processes. Students must complete both terms with at least a “C” average to earn extra GPA points. Taking the AP English Literature exam is encouraged.

BRITISH LITERATURE & COMPOSITION

.5 Language Arts Credit

Prerequisites: Successful completion of Level 11 core requirements

Students expand their literary background through a chronological survey of the literature of Britain. Students read and discuss notable and universally appealing literature, including works from Chaucer and Shakespeare to Austin, Keats, Hardy and Wolff. The course emphasizes challenging levels of communication demonstrated by aggressive discussion, research, critical thinking and comprehensive reading and writing skills.
MODERN/CONTEMPORARY LITERATURE & COMPOSITION

.5 Language Arts Credit
GRADE 12

Prerequisites: Successful completion of 9th, 10th, and 11th core requirements

In this survey course, students read and analyze the ideas of major 20th and 21st Century authors. Students respond to a variety of literary selections by writing about and discussing that literature. Activities and study center on the appreciation and understanding of author technique and recurrent themes. This course emphasizes challenging levels of communication demonstrated by discussion, research, critical thinking and comprehensive reading and writing skills.

ENGLISH ELECTIVE COURSES

ADVANCED ACTING

.5 Fine Arts or Language Arts Elective Credit
GRADE 9 - 12

Prerequisites: Theatre Arts or Beginning Acting or Teacher Recommendation
(May be repeated for individual development and .5 elective credit)
Fee: $10.00

This course offers students the opportunity to increase their acting skills through the study of acting techniques. The students will discuss in greater detail analysis, rehearsal, and performance of dramatic roles. Rehearsals and public performances outside of this class are a part of this course and are required. This class is designed for the students who want to take acting to the next level.

BEGINNING ACTING

.5 Fine Arts or Language Arts Elective Credit
GRADE 9 - 12

No Prerequisite

This course offers, through literature and activities, the fundamentals of analysis, rehearsal, and performance of dramatic roles. Students work individually and in groups exploring styles and methods of acting and analyzing characters through the study of plays and improvisational activities, as well as practicing and performing dramatic presentations.

CREATIVE WRITING 9-10

.5 Language Arts Elective Credit
GRADE 9 - 10

Prerequisites: None

This is a class for the student who seeks to develop a strong foundation in writing. This course provides instruction in and exploration of the following areas: developing characters, writing natural dialogue, creating realistic plots, and writing a poem, short story, or short play in a format suitable for publication.

CREATIVE WRITING 11-12

.5 Language Arts Elective Credit
GRADE 11 - 12

Prerequisites: Successful completion of Level 9 and 10 core requirements, strong writing ability

This class is for the advanced, disciplined writer who wants to improve his or her skills and explore new genres. Students will create individual portfolios reflecting mastery of his/her writing goals. Each student will contract with the teacher to write an agreed number of pieces per term. Production of a literary magazine could live naturally in this course.

FORENSICS-STEM ELECTIVE

.5 Language Arts Elective Credit
GRADE 10 - 12

Fee: $5.00 fee for materials
Prerequisites: None

This class is designed for the student who wishes to gain a general knowledge of debate and persuasive speaking. Students are expected to compete within the class in debate.

FORENSICS 2 -STEM ELECTIVE

.5 Language Arts Elective Credit Each Term
GRADE 10-12

Prerequisites: Forensics I or Teacher Recommendation
(May be repeated for individual development and .5 elective credit)

This is a class for students with above average speaking skills. Students will choose competition events for independent study, but the primary focus of this class is debate. Debaters will continue to develop the skills learned in Forensics I and apply these to new debate topics. Competition outside of class will be required.
MUSICAL THEATRE

.5 Fine Arts, Language Arts Elective Credit

No Prerequisite

(Grades 9 - 12)

(May be repeated for individual development and .5 elective credit)

Students who participate in the school Musical automatically are enrolled and gain credit in Musical Theatre.

MYTHOLOGY 9/10

.5 Language Arts Elective Credit

Grades 9-10

In this one semester class, students study the myths, legends, folklore, and adventures of many cultures with an emphasis on Greek and Roman mythology. Students read a variety of literary forms such as short stories, plays, poetry, and novels. Students then discuss and write about the literature, gaining greater insight by comparing modern interpretations to ancient mythological stories.

MYTHOLOGY 11/12

.5 Language Arts Elective Credit

Grades 11-12

In this one semester class, students study the myths, legends, folklore, and adventures of many world cultures and mythologies. Students read a variety of literary forms such as short stories, plays, poetry, and novels. Students then discuss and write about the literature, gaining greater insight by comparing modern interpretations to mythological stories.

PLAY PRODUCTION

.5 Fine Arts, Language Arts Elective Credit

Prerequisites: None

(Grades 10 - 12)

(May be repeated for individual development and .5 elective credit)

This "hands-on" course introduces the student to the many aspects of theatrical production. Activities range from set construction for the fall/spring production, to building an individual theatre portfolio. Students explore the interrelationships of script, performance and staging, with an emphasis on the organization and teamwork needed for successful quality productions.

READ/VOCAB 9

.5 Credit Each Term

Grades 9

Prerequisite: Teacher Recommendation

This course is designed for students who have not attained proficiency in language arts. Extra time and assistance will be provided for students to improve skills. In this class, students read and respond to a variety of literary forms, including short stories, novels, poetry, drama, and non-fiction. Students, using correct conventions of English, write narrative, descriptive and comparative-contrasting pieces for a variety of purposes and audiences. The course establishes language arts standards and expectations for basic high school proficiencies with emphasis on improving a student's reading, writing, speaking, and listening skills. Library, technology and study skills, as well as vocabulary study, are also included.

READ/VOCAB 10

.5 Language Arts Credit

Grades 10

Prerequisite: Teacher recommendation

This class complements language arts instruction for non-proficient students with an emphasis on reading strategies for handling more difficult texts. Students are given extra assistance and time as they read, analyze, write about and discuss literature, including short stories, novels, poetry, drama and non-fiction. The focus is on the appreciation and close examination of different types of literature. This course provides opportunities for the student to practice the synthesis of standard language arts skills through reading, writing, research, listening, speaking and thinking in individual and group activities/assignments. Using correct conventions of English, students write narrative, descriptive, cause-and-effect, persuasive and comparative/contrasting pieces for a variety of purposes and audiences. Library, technology and study skills as well as vocabulary study are also included.
**SCIENCE FICTION**
.5 Language Arts Elective Credit

This course presents the roots and development of science fiction through short stories, novels, and films. Students explore major themes in the field to gain a greater understanding of the genre and how science fiction uses imaginary beings or events to comment on society. Class discussions, student writing, and projects focus on major science fiction authors’ works. Opportunities to write and experiment with original science fiction selections are encouraged.

**THEATRE ARTS**
.5 Fine Arts, Language Arts Elective Credit

In this course students experience a wide range of dramatic literature and explore theater traditions. Students will read, analyze and discuss dramatic selections and experiment with creating dramatic literature. Students will be exposed to all different forms and time periods of theatre. Students will also do a playwriting unit. Students also assist in construction of the current production’s set. This is not an acting course, but some acting may be required.

**HUMANITIES**
.5 Language Arts Elective Credit

This course is designed for students interested in the fine arts. Students gain an appreciation of the legacy of art, architecture, music and ideas from the past, and express values within their own and other cultures.
Notes:

- **Graphing calculators (TI 84+ silver edition)** are required for all courses.
- **In order to advance to the next level in mathematics, students must earn a minimum of a C in the prerequisite course.**
- Freshmen will be placed in the appropriate math class based on CSAP test scores and the recommendation of their middle school teacher.
- Students bound for college must have **4 units of mathematics**: Math 1, Math 2, Math 3, and one additional course (AP Statistics or Pre-Calculus and AP Calculus)
TOPICS
This course is an introduction to basic algebra concepts and a review of prior learning from mathematical concepts that are an essential component to more advanced math topics. The course is designed to help students overcome weakness in preparation in mathematics, emphasizing the concepts necessary to be successful in Math 1 or Math 2. The course will place a strong emphasis on numeracy without the aid of a calculator. The focus will be integers, order of operations, variables, expressions, and equations. The course helps students to develop good mathematical study skills and learning strategies. Many different approaches (foldables, expression mats, and student interactive notebooks) and manipulatives will be used in this learning. Throughout the course, students will be reviewing prior knowledge that will eventually reach a cumulative final exam.

MATH 1
2 Semesters - ½ credit each semester
Prerequisite: none
Math 1 is a standards-based course utilizing a collaborative learning environment to extend students' fluency in analytical, geometric, and visual representations. Algebra, geometry and statistics topics include linear and exponential functions; congruence, similarity, deductive, and spatial reasoning; solving systems of linear equations and inequalities; and data analysis with display. The use of technology and hands-on will be a large part of instruction.
A TI-84 plus graphing calculator is required for this class.

HONORS MATH 1
2 Quarters ½ credit each quarter
Prerequisite: Teacher Recommendation
Math 1 is a standards-based course utilizing a collaborative learning environment to extend students' fluency in analytical, geometric, and visual representations. Algebra, geometry and statistics topics include linear and exponential functions; congruence, similarity, deductive, and spatial reasoning; solving systems of linear equations and inequalities; and data analysis with display. The use of technology and hands-on will be a large part of instruction.
A TI-84 plus graphing calculator is required for this class.

NOTE: Honors Math 1 is designed for the student interested in taking AP math courses as an upperclassman. The same topics are covered as the full year Math 1 but in greater depth with extension problems assigned as part of the course. It will have twice as much material to learn daily and is not recommended for students who struggle with time in math classes or heavy workloads. A student's transcript will reflect that this course was completed at an honor's level.

MATH LABS
MATH LAB 1
1 Term each ½ ELECTIVE credit each term
Prerequisite: teacher recommendation and/or self-election
The Math Lab is a teacher recommended intervention connected to the Math 1 course. The course is designed to provide extra support for students in Math 1. Math faculty assist students by helping them keep up in the current course and catch up on math skills that may not have been previously mastered. No additional outside work is assigned in these classes.

MATH LAB 2
1 Term each ½ ELECTIVE credit each term
Prerequisite: teacher recommendation and/or self-election
The Math Lab is a teacher recommended intervention connected to the Math 2 course. The course is designed to provide extra support for students in Math 2. Math faculty assist students by helping them keep up in the current course and catch up on math skills that may not have been previously mastered. No additional outside work is assigned in these classes.

**MATH LAB for Advanced Math Courses**

1 Term each ½ **ELECTIVE** credit each term  
Prerequisite: teacher recommendation and/or self-election

The Math Lab is a teacher recommended intervention connected to the Math 3 or Math 4 or AP courses. The course is designed to provide extra support for students in these courses. Math faculty assist students by helping them keep up in the current course. No additional outside work is assigned in these classes.

**MATH 2**

**MATH 2**

2 Semesters - ½ credit each semester  
Prerequisites: C or better in Math 1  
Grades 9-12

Math 2 is a standards-based course utilizing a collaborative learning environment extending concepts introduced in Math 1 to quadratic functions and analysis of functions in terms of transformations. Algebra, Geometry and statistic topics include multi-variable and power functions, logarithms; similarity and trigonometry; regression, correlation, conditional probability and matrices. A TI-84 plus graphing calculator is required for this class.

**HONORS MATH 2**

2 Quarters ½ credit each quarter  
Prerequisite: C or better in Math 1 and teacher recommendation

Math 2 is a standards-based course utilizing a collaborative learning environment extending concepts introduced in Math 1 to quadratic functions and analysis of functions in terms of transformations. Algebra, Geometry and statistic topics include multi-variable and power functions, logarithms; similarity and trigonometry; regression, correlation, conditional probability and matrices. A TI-84 plus graphing calculator is required for this class.

NOTE: Honors Math 2 is designed for the student interested in taking AP math courses as an upperclassman. The same topics are covered as the full year Math 2 but in greater depth with extension problems assigned as part of the course. It will have twice as much material to learn daily and is not recommended for students who struggle with time in math classes or heavy workloads. A student’s transcript will reflect that this course was completed at an honor’s level.

**MATH 3**

**MATH 3**

2 Semesters - ½ credit each semester  
Prerequisites: C or better in Math 1 and Math 2

Math 3 is a standards-based course utilizing a collaborative learning environment extending concepts introduced in Math 1 and Math 2 to see polynomials as a system that has mathematical coherence. Algebra, geometry, and statistics topics include polynomial, rational, circular and logarithmic functions; geometric modeling, reasoning, construction, and proof; normal distributions and standardized scores, making inferences, justifying conclusions, and evaluating random processes. A TI-84 plus graphing calculator is required for this class.
ACCELERATED MATH 3
2 Quarters - ½ credit each quarter
Prerequisite: C or better in Math 1 and Math 2 and teacher recommendation
Math 3 is a standards-based course utilizing a collaborative learning environment extending concepts introduced in Math 1 and Math 2 to see polynomials as a system that has mathematical coherence. Algebra, geometry, and statistics topics include polynomial, rational, circular and logarithmic functions; geometric modeling, reasoning, construction, and proof; normal distributions and standardized scores, making inferences, justifying conclusions, and evaluating random processes.
A TI-84 plus graphing calculator is required for this class.

NOTE: Accelerated Math 3 is designed for the student interested in taking AP math courses as an upperclassman. It is the exact same course with the same number of minutes of instruction completed in one semester instead of two semesters. It will have twice as much material to learn daily and is not recommended for students who struggle with time in math classes or heavy workloads. It is only recommended for students interested in taking AP courses as upperclassmen.

PRE-CALCULUS
2 Semesters ½ Credit Each
Prerequisites: C or better in Math 1, Math 2, and Math 3
This is a rigorous course designed to prepare students for Calculus. It reviews and extends the major concepts of Algebra, geometry, and Analytic Geometry while significantly involving the student in a study of Trigonometry. Topics include circular functions, trigonometric function, logarithmic functions, vectors and 3D-space, linear algebra, conic sections, complex numbers, series, mathematical induction, limits, and derivatives.
A TI-84 plus graphing calculator is required for this class.

ACCELERATED PRE-CALCULUS (90 minutes for each quarter) 2 Quarters ½ Credit Each
Prerequisite: C or better in Math 1, Math 2, and Math 3 and teacher recommendation
This is a rigorous course designed to prepare students for Calculus. It reviews and extends the major concepts of algebra, geometry, and analytic geometry while significantly involving the student in a study of trigonometry. Topics include circular functions, trigonometric function, logarithmic functions, vectors and 3D-space, linear algebra, conic sections, complex numbers, series, mathematical induction, limits, and derivatives.
A TI-84 plus graphing calculator is required for this class.

NOTE: Accelerated Pre-Calculus is the exact same course with the same number of minutes of instruction completed in one semester instead of two semesters. It will have twice as much material to learn daily and is not recommended for students who struggle with time in math classes or heavy workloads.

COLORADO MESA UNIVERSITY COURSES
CMU Math 113 College Algebra
Prerequisite: Successful completion of Math 3, GPA 3.0, and score of 19 on Math portion of the ACT or an equivalent ACCUPLACER score.
A college-level treatment of algebra. Topics include algebraic properties of the integers, rationals, real and complex numbers; techniques for manipulation of expressions; techniques for solving linear, non-linear, absolute value equations, and inequalities; techniques for solving systems of equations; the Cartesian plane, relations and functions; properties and graphs of polynomial, rational, exponential, logarithmic and inverse functions; conic sections.
This course will count for both high school credit (0.75) and college credit (4).
CMU MATH 091 INTERMEDIATE ALGEBRA
Prerequisite: ACT score below 19 on the Math portion of the ACT, ACCUPLACER score 61-84

Further study in topics of algebra. Includes properties of real and complex numbers; laws of exponents and radicals; factoring polynomials; solving linear and quadratic equations and inequalities; rational expressions and complex fractions; introduction to functions and relations; applications.

ADVANCED PLACEMENT COURSES

Advanced Placement Statistics
2 Semesters ½ credit each
Prerequisites: C or better in Math 1, Math 2, and Math 3

This course is for advanced math students and is taught as a non-calculus based college class and culminates in the Advanced Placement Statistics Examination. The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data: Describing patterns and departures from patterns; Sampling and Experimentation: Planning and conducting a study; Anticipating Patterns: Exploring random phenomena using probability and simulation; Statistical Inference: Estimating population parameters and testing hypotheses. Students who successfully complete the course and exam may receive credit, advanced placement or both for a one-semester introductory college statistics course. Grades may be weighted in this course for the purpose of determining GPA. A TI-84+ Silver edition graphing calculator is required for this class.

Advanced Placement Calculus AB
2 Quarters ½ credit each
Prerequisite: C or better in Pre-Calculus

This course is for advanced math students and is taught as a college class. This course is offered as a strand class and will meet all year. This course consists of an in-depth study of elementary functions and selected topics from differential and integral calculus, including the study of limits, continuity, derivatives, applications of the derivative, techniques of integration, and applications of the integral. This course culminates in Advanced Placement Calculus AB Examination. Successful completion of the course and the exam may earn the student 5-10 semester hours of credit at an accepting college or university. Grades may be weighted in this course for the purpose of determining GPA. A TI-84+ Silver Edition calculator is required for this course.

Advanced Placement Calculus BC
2 Quarters ½ credit each
Prerequisite: C or better in AP Calculus AB

This course consists of an in-depth study of elementary functions and selected topics from differential and integral calculus, including a study of limits, continuity, derivatives, applications of the derivative, and techniques of integration up to and including integration by parts, applications of the integral and polynomial approximations of functions by series. This course culminates in Advanced Placement Calculus BC Examination. Successful completion of the course and the exam may earn the student 5-10 semester hours of credit at an accepting college or university. Grades may be weighted in this course for the purpose of determining GPA. A TI-84+ Silver Edition calculator is required for this course.
Performing Arts

Why do we teach Performing Arts?

The Central High School Performing Arts department is inclusive for all students who have the desire to develop their skills in all areas of the performing arts.

The Music Department at Central High School provides the opportunity to perform in numerous ensembles at varying levels that challenges each student. Diverse types and styles of music are studied and performed to assist in the students' understanding of music. Through the study of music theory, the students' musicianship is continually challenged and refined to gain an enjoyment of music and become a life-long musician and appreciator of music.

The mission of the Theatre Department at Central High School is to see students develop problem solving skills and enhance their personal growth through theatre arts. Students will also master skills of creativity and reflect on and develop their own self-esteem in a safe classroom environment.

Performing Arts is a science, it is exact and demands exact acoustics. A conductor's score is a chart, a graph which indicates frequencies, volumes, melody, and harmony all at once with the most exact control of time. Performing Arts is technology. Performances require advanced knowledge of technological devises to create effective lighting, masterful sound, and mechanical sets that create an environment for the production. Performing Arts is engineering. Theatre and sound engineers operate technical equipment and systems in the performing arts and entertainment industry. Learning these skills create lifelong problem solvers who need to use innovative solutions. Performing arts classes prepare students for these types of future careers. Performing Arts is mathematical. Music is rhythmically based on the subdivision of the time into fractions which must be done instantaneously.

INCLUDES BAND, CHOIR, ORCHESTRA AND SOME THEATRE CLASSES

THESE CLASSES CAN COUNT AS A FINE ART CREDIT OR ELECTIVE CREDIT

CENTRAL HIGH SCHOOL MUSIC DEPARTMENT

"The Central High School Music Department is inclusive or all students who have the desire to make music. We are proud of our students and the work they do at C.H.S.

Mission Statement of the Music Department

The Music Department at Central High School provides the opportunity to perform in numerous ensembles at varying levels that challenges each student. Diverse types and styles of music are studied and performed to assist in the students' understanding of music. Through the study of music theory, the students' musicianship is continually challenged and refined to gain an enjoyment of music and become a life-long musician and appreciator of music.

Orchestra

The Orchestra program is expanding to meet the needs of the students involved. Members of the Orchestra program may have the opportunity to be involved in district music events and to be a part of various honor groups as well as participate in outside of school activities.

CONCERT ORCHESTRA I

.5 Credit
Prerequisite: Permission of the Instructor
Fee: $15.00
- 50 -
This course is open to all string players (violins, viola, cello, and bass). This course is designed to develop string-playing techniques and develop individual student’s musicianship, which is needed to be a member of the Symphony Orchestra. Emphasis in this class will be placed on string orchestra ensemble playing. Junior and Senior participation is optional. Interested freshmen must have instructor’s permission to enroll. Performances outside of class are part of this course and attendance is required.

**SYMPHONY ORCHESTRA II**

.5 Credit  
**GRADES 10 - 12**

Prerequisite: Audition and/or Permission of the Instructor  
Fee: $15.00

This course focuses on excellence in string performance. Chamber Orchestra students will be chosen from this group. Emphasis on this class will be on string ensemble, chamber orchestra, and symphonic orchestra, which include winds and percussion. Students must demonstrate a high level of string technique. Chamber Orchestra and Full Orchestra will meet outside of class from January to April. Performances and rehearsals outside of class are part of this course and attendance is required. If students choose to be in both orchestras, only one fee is required.

**CENTRAL HIGH SCHOOL BANDS**

The CHS band program exists to provide a well-rounded music and performing arts education to many students through a variety of energetic and passionate ensembles. The most important aspect of our program is **YOU**! We are excited for you be a member of the CHS band program. Below is a listing of musical ensembles/classes that will be offered at Central High School next year.

"The Power of Music..."

**SYMPHONIC BAND**

.5 Credits  
**GRADES 9-12**

Prerequisite: Previous Instrumental Experience Required  
Fee: $10.00 Cleaning; $75.00 Instrument Rental if using a school owned instrument.  
*no audition necessary*

This ensemble is for intermediate musicians or advanced students wishing to learn a new instrument. We prepare medium level music and continue to develop our fundamental musical skills. We perform a variety of concerts and compete at a number of regional festivals. There is no audition necessary for this course. **Please note that percussionists do not register for this course.**

**MARCHING BAND (Marching Warriors and Color Guard)**

1.0 Credit  
**GRADES 9 - 12**

Prerequisite: Prior experience in reading music and playing an instrument.  
*Color guard and percussion students will have an audition to determine proper placement in the ensemble.***

***Students must also be enrolled in at least one of the following bands: Symphonic Band, Wind Ensemble or Percussion Ensemble***

This ensemble is the most prominent performing arts ensemble at Central High School and performs in a variety of settings. We perform at all CHS football games, various competitions in Grand Junction, and state championships. We are a consistent state-qualifier and travel to the front-range each year for the state festival. Our season starts during a summer band camp and rehearsals continue into the school year. We rehearse during the last hour of the school day, every day after school, and some weekends. Performances are primarily during the first half of the fall semester. Attendance at all events is required.

There is no audition necessary for wind players, but **membership in a concert band is required.** Percussion students will audition for drumline/front ensemble and must enroll in the percussion class. Students interested in color guard will receive more information about color guard from our color guard instructor.

- Contact Katie Stiles, percussion instructor: Katie.Stiles@D51Schools.org
- Contact Francisco Castaneda, color guard instructor: Francisco.Castaneda@D51Schools.org

*** There are fees associated with marching band/color guard. These fees total approximately $350, and we have fundraising options available. No student will be turned away due to finances.  
*** A preliminary calendar for the 2019 marching band season will be published soon. All rehearsals and performances are
required. Dates listed as “TBD” will be confirmed by May.

*** There will be a mandatory meeting Tue Apr 23rd, at 6:30PM, in the CHS auditorium. This is for all students/families who are planning on being in the marching band/color guard.

***All students/families must sign a contract in order to be in the marching band/color guard.

PERCUSSION ENSEMBLE ⬤ ⬤

5 Credit per Term
Fee: $75.00 Instrument (Percussion) rental fee.
*This class is for percussionists ONLY!
Percussionists SHOULD NOT REGISTER for Wind Ensemble or Symphonic Band!
This ensemble is for all percussion students at CHS. Primary focus will be on percussion instrument technique including mallets, snare, timpani, and auxiliary percussion. We will also explore percussion ensemble music. Students in this class will also prepare percussion parts for the symphonic band and wind ensemble and will rehearse with the wind players 1-2 times outside of school before concerts.

WIND ENSEMBLE ⬤ ⬤

.5 Credit
Prerequisite: Students must audition with the Director
Percussionists SHOULD NOT REGISTER for Wind Ensemble or Symphonic Band!
This ensemble is for advanced musicians. In this ensemble, we explore difficult wind band literature and reach new musical heights. We perform a variety of concerts and compete at a number of regional festivals. Auditions for the 2018-2019 wind ensemble will be later this semester. Please note that percussionists do not register for this course.

JAZZ BAND II (INTERMEDIATE) (PRISM) ⬤ ⬤

.5 Credit
***Students must also be enrolled in at least one of the following bands: Symphonic Band, Wind Ensemble or Percussion Ensemble
This jazz ensemble is the beginning jazz ensemble at CHS. This ensemble will develop basic jazz fundamentals at the high school level, and will play intermediate level music of varying styles. There is no audition necessary for this ensemble, but membership in a concert band is required.

INDEPENDENT STUDY MUSIC (SOLO PERFORMANCE)

GRADES 11-12

.5 Credit
Prerequisite: This class is designed for the student who is going to major in music in college and wishes to work on the college admission and/or scholarship audition.

Students will work on two or three solos that can be used for college admission and scholarship portfolios. It is open to all choir, band and orchestra students.

JAZZ BAND I (ADVANCED) (SPECTRUM) ⬤ ⬤

.5 Credit
Prerequisite: Students must audition with the Director.
***Students must also be enrolled in at least one of the following bands: Symphonic Band, Wind Ensemble or Percussion Ensemble
This jazz ensemble is the advanced jazz ensemble at CHS. This ensemble will refine advanced jazz techniques and play music of varying styles. This ensemble is by audition only, and membership in a concert band is required. Audition materials will be published soon. We rehearse before school from 6:25am-7:10am after the conclusion of the fall marching band season.

Music Theory (spring semester) GRADES 10-12

Music theory at CHS is not a performing class. In music theory, students learn about the fundamental aspects of written music, including scales, key signatures, chords, and various levels of aural skills/ear training that coincide with written theory. Students in music theory also study aspects of music history. This class is generally for upperclassmen, with admittance of younger students by approval of director.

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Other activities offered for band students at CHS:

- **Small Ensembles/Solo and Ensemble**
- **Pit Orchestra** – Performs the music for the actors/singers of the fall musical.
- **Basketball Pep Band** – Performs at a number of home varsity basketball games in the spring.
- **Winterguard** – Winterguard is from December-April and members perform a routine to music and compete in events around the state, including state championships. Anyone can participate in winterguard. Membership in the fall color guard is not required.
- **Winter Percussion Ensemble** – This ensemble is an extension of our percussion class. The primary purpose of this ensemble is to learn more advanced percussion ensemble music and to prepare students for the fall marching band percussion section. This group meets evenings during the spring semester, and is led by Katie Stiles, our percussion instructor.
- **Various Honor Bands** – Band students at CHS have the opportunity to audition for local and state honor bands. In addition to the CBA Select Band and Best of the West Select Band in Grand Junction, CHS students make it into the Fort Lewis Honor band and the Colorado All State Honor Band!
- **Band Letter** – Students who go above and beyond in the CHS band program are eligible to earn a letter or a bar which represents their hard work in our program.

*If you have any questions about band at CHS, please feel free to send me an email or visit our website! I know it can be overwhelming finding the right band classes for you, but myself, the CHS counselors, and the CHS administration are here to help!*
FLOW CHART of VOCAL MUSIC CLASSES at CHS

Open to ALL students, at any level, who want to learn the joy of singing and making Music with their voice!

ANY STUDENT OR MIDDLE SCHOOL STUDENT ENTERING CHS

MEN’S CHOIR (9-12) NO AUDITION REQUIRED

VOICE CLASS (9-12) NO AUDITION (BUT SOME EXPERIENCE HELPFUL)

SENIOR CHOIR (9-12) AUDITION REQUIRED

ANY STUDENT OR MIDDLE SCHOOL STUDENT ENTERING CHS

BAND OR ORCHESTRA FRESHMEN

BAND OR ORCHESTRA 10-12

MEN’S CHOIR (9-12) NO AUDITION REQUIRED

ADVANCED WOMEN’S CHOIR (9-12) BY INVITATION ONLY

WOMEN’S CHOIR (9-12) NO AUDITION REQUIRED

SELECT CHOIR (9-12) AUDITION REQUIRED

SOUND SENSATIONS AUDITION REQUIRED (10-12)

MADRIGAL SINGERS (9-10) AUDITION REQUIRED

BAND OR ORCHESTRA

MUSIC THEORY OR A.P. MUSIC THEORY (10-12) TALK TO MUSIC TEACHER OR THE INSTRUCTOR

There may be faster ways to advance through these classes, depending on your singing experience and how fast you progress. See Mr. Scott if you have questions.
VOCAL MUSIC DEPARTMENT
Not All Classes Require Prior Singing Experience

MEN’S CHORUS
.5 Fine Arts or Elective Credit
No Prerequisite
Fee: $15 and $20.00 fee for uniform

GRADES 9 - 12

All male students who enjoy singing are welcome to sing in this group. No prior experience is necessary. Students must have a working attitude, ability to want to learn, a sense of humor, and a lot of courage to break away from preconceived notions about choir. Different styles and types of music will be performed. Students will learn how to use their voice to its full range in a non-threatening environment, as well as how to sing and read music. Students are required to have a positive attitude and attend all school-related nighttime performances in which Men’s Choir participates. Outside of school performances may be a part of being in this group depending on the work ethic and desire to do well.

WOMEN’S CHORUS
.5 Fine Arts or Elective Credit
No Prerequisite
Fee: $15 and $20.00 shirt fee for uniform

GRADES 9 - 12

All female students who enjoy singing are welcome to sing in this group. No prior experience is necessary. Different styles and types of music will be performed and movement to some of the songs may be included. Students will be encouraged to use their voice to its fullest range as well as sing and learn to read music in a non-threatening environment. Women’s Choir students are required to have a positive attitude and attend all school-related nighttime performances in which their choir participates. Outside of school performances may be a part of this group depending on the work ethic and desire to do well.

ADVANCED WOMEN’S CHORUS
.5 Fine Arts or Elective Credit
Prerequisite: Women’s Choir or prior music experience
Fee: $15

GRADES 9 - 12

This class is for any female who likes to sing, wants to learn how to become a better musician, and has auditioned for, or been invited to be a part of this group by the director. Advanced Women’s Choir works on using the correct singing styles so a student can sharpen skills needed to be in advanced auditioned groups. All styles of music will be performed from pop to classical. Learning is done in a non-threatening environment with a lot of support and help from the instructor. Students may have the opportunity to sing with the women from more advanced groups or go on trips depending on the dedication and effort shown. Students are required to perform as a group at all nighttime school-related concerts in which their choir participates.

Solo Development Class (Independent Study Music)
.5 Fine Arts or Elective Credit
Prerequisite: No Prior experience necessary, but helpful.
Fee: $15

GRADES 9 - 12

This class will start with learning how to prepare a solo. The students will singing solos in groups and will work their way to performing. Various styles and songs will be used to develop the student’s ability to its fullest potential. This class will involve learning how to practice a solo, combating stage fright, and correct breathing technique. The last performance for a grade will be a song of the student’s own choice. A level of confidence in the player’s abilities will be developed.

SELECT CHORUS
.5 Fine Arts or Elective Credit
Prerequisite: Audition required or Invitation of Director
Fee: $15 and $25.00 shirt fee for uniform

GRADES 9 - 12

Music performed in this group will range from pop music, to classical, to contemporary. This group is for students who enjoy being challenged and really want to learn about how to use their voice to its fullest capabilities in a large group. Students are not required to sing alone, but will learn to sharpen their skills of sight-reading and how to use their voice correctly. This group may have a few community performances, and is required to perform in all school related night concerts. Juniors and seniors taking this course may be able to audition for All State Choir.
MADRIGAL SINGERS  ☐ ☐
.5 Fine Arts or Elective Credit per Term  GRADES 10 - 12
Prerequisite: Audition and permission of Instructor
Fee: $15

This class has become very popular due to the challenging literature and the recognition of the value of learning to sing in various languages, as well as learning about various cultures. Music from the 13th to 15th centuries will be sung as well as a few spirituals, modern a cappella songs, and Jazz music will be covered. This group does not do choreography, but is asked by the community to do many performances out in the public at various social gatherings throughout the year. Evening scheduled concerts at the school are required. Juniors and seniors taking this course may be eligible to audition for All State Choir.

SOUND SENSATIONS  ☐ ☐
.5 Fine Arts or Elective Credit  GRADES 10 - 12
Prerequisite: Audition and permission of Instructor
Fee: $15

Today’s style of music including: pop, contemporary, novelty, a cappella, and jazz songs are performed in Sound Sensations. Choreography is added on some of the songs to enhance the performance. This group is asked to many performances outside of school time in the community, as well as the required nighttime school concerts. Attendance is required at these performances. Juniors and seniors taking this course may be eligible for All State Choir.

Music Application Classes

MUSIC APPRECIATION  ☐ ☐
.5 Credit per Term  GRADES 10 - 12
Prerequisite: None
Non performing class

This class is a non-performing class for students who are not involved in a music-performing group at C.H.S. Students need not have any prior musical talent, knowledge, or ability, as the class is designed so that the student can earn a Social Studies or Fine Arts credit. Different periods of music in time will be covered from 500 a.d. to early Rock and Roll. Various instruments and singing styles from different cultures will be listened to and evaluated to enhance the student's awareness of music in the world.

MUSIC THEORY  ☐ ☐
.5 Credit  GRADES 10 – 12
Prerequisite: Students need to have a musical background

Music Theory is designed as a course in music beginnings with the fundamentals of music notation, scales, chords, rhythm, ear training, sight singing and composition techniques. Emphasis is toward two and four part composing.

ADVANCED PLACEMENT MUSIC THEORY  ☐ ☐
.5 Credit Each Term  GRADES 10 - 12
Prerequisite: Permission of the Instructor

AP Music Theory is an advanced academic course in music and is designed to prepare students for the National Advanced Placement Exam in Music Theory. Students in this course can benefit by learning theoretical aspects of music in greater depth and developing skills that will be critically important to successful study in college. Student must be recommended by one of the three Music Directors at Central High School.
THEATRE CLASSES

ADVANCED ACTING

.5 Fine Arts or Language Arts Elective Credit
Prerequisites: Teacher Approval Required
(May be repeated for individual development and .5 elective credit)
Fee: $10.00
This course offers students the opportunity to increase their acting skills through the study of acting techniques. The students will discuss in greater detail analysis, rehearsal, and performance of dramatic roles. Rehearsals and public performances outside of this class are a part of this course and are required. This class is designed for the students who want to take acting to the next level.

BEGINNING ACTING

.5 Fine Arts or Language Arts Elective Credit

This course offers, through literature and activities, the fundamentals of analysis, rehearsal, and performance of dramatic roles. Students work individually and in groups exploring styles and methods of acting and analyzing characters through the study of plays and improvisational activities, as well as practicing and performing dramatic presentations.

DANCE CLASS

.5 Fine Arts

Dance is an introductory survey class that examines dance as a primary mode of human expression and communication. Through viewing live and recorded performances and engaging in targeted readings, we will place dance in a variety of cultural, artistic and historical contexts, focusing on developments in dance in the twentieth and twenty first centuries. In movement exercises and readings we will compare and contrast sacred, social, popular, and concert dance traditions in the West and around the world. During this course we will develop vocabularies for discussing types of movement and move towards a framework for reading dances. We will deepen our understanding of dance, choreography and movement forms, and learn how to better articulate, through writing and discussion, what we see, feel and perceive in dances. You will be up and moving in this class. No dance experience required but one must be physically capable of movement based activities.

MUSICAL THEATRE

.5 Fine Arts, Language Arts Elective Credit
(May be repeated for individual development and .5 elective credit)

Students who participate in the school Musical automatically are enrolled and gain credit in Musical Theatre.

PLAY PRODUCTION

.5 Fine Arts, Language Arts Elective Credit
Fee: $5.00
Prerequisites: Teacher Recommendation
(May be repeated for individual development and .5 elective credit)

This "hands-on" course introduces the student to the many aspects of theatrical production. Activities range from set construction for the fall/spring production, to building an individual theatre portfolio. Students explore the interrelationships of script, performance and staging, with an emphasis on the organization and teamwork needed for successful quality productions.
2 P.E. Courses/1.0 Credit is Required for Graduation

Department Mission: Physical education offers opportunities for students in a safe and positive classroom environment to engage in movement activities that will meet interests and promote extended participation beyond the scope of each course in the each student’s future. All courses incorporate the development of skills, including problem solving ability and cooperative learning.

All courses require students to dress in clothing appropriate for exercise. Normal streetwear is not acceptable.

Sportsmanship and a Good Attitude is a Priority in all of our PE Courses

*Applied Personal Fitness and Wellness  □
.5 PE or Elective Credit – Required for Graduation
Fee: $15.00

This course is designed to introduce students to overall wellness lessons and activities. Class content includes stress management, nutrition, good social choices, and the benefit of regular physical activity.

Fitness Activities □
.5 PE or Elective Credit –

Students will improve their fitness through walking.

Freshman P.E.
.5 PE or elective credit

This course is offered only to freshmen students. Similar to the Team Sports class available to older students, this course provides opportunities for students to develop fundamental skills through cooperative learning while engaging in a variety of team-focused sports.

Lifetime Activities □
.5 PE or Elective Credit
Fee: $60.00 additional fee may apply
You must provide your own transportation to off-site destinations.
Students will learn and participate in a variety of recreational activities offered in our community including rock-climbing, bowling, tennis, golf.

PEP □
.5 PE or Elective Credit

PEP is an adaptive physical education course that is comprised of peer tutors and students with special needs. A counselor, PE teacher, and/or administrator must nominate the peer tutors. Peer tutors need to be enthusiastic, positive, willing to work with special needs students, physically able to participate in physical education, and have good attendance. The PEP instructors will do interviews and final selection of peer tutors.

Team Training/Conditioning Fall/Spring □
Prerequisite: Participation in high school athletics or with approval from a P.E. Teacher

Grades: 9 - 12
**PE Uniform Required**

**All CHS athletes are encouraged to be in this class.** Students will participate in activities/drills that help develop the total athlete. These include weightlifting, plyometrics, speed training, and agility and mobility work. Participants must be in high school athletics or be very serious about fitness.

**RACQUETS**

.5 PE or Elective Credit – PE Uniform Required

Students will improve develop fundamental skills through cooperative learning and participation in a variety of activities including tennis, pickle ball, badminton, and ping pong.

**TEAM SPORTS**

.5 PE or Elective Credit – PE Uniform Required

Team sports provides opportunities for students to develop fundamental skills through cooperative learning while engaging in a variety of team-focused sports.

**WEIGHTS**

.5 PE or Elective Credit

This course will teach the proper lifting and spotting techniques. Students must have a good attitude and desire to work hard in order to be successful in this course. Students should be interested in improving their physical fitness.

**WEIGHTS-ADVANCED**

.5 PE or elective credit
Prerequisite: Weights

Students will participate in resistance, plyometric, speed, and agility work designed to help students reach their physical goals.

**WRESTLING/MAT GAMES**

.5 PE or elective credit

This course will teach and develop the skills used in wrestling and other sports that require a high level of body awareness. Various mat games and conditioning activities will be used to develop strength and endurance.
Central High School
Science Flow Chart

Environmental Science
or Honors Environmental Science
(9th)
Science I

Biology
or Honors Biology
(9th or 10th)
Science II
Prerequisite is 1st Science

College bound students should take Chemistry and Physics and AP courses. All students are encouraged to take these courses.

Recommended 3rd Science Choices
(Graduating Classes of 2018-2020)
- Physics
- Chemistry
- ChemCom
- Environmental Science
- AP Environmental Science
- AP Chemistry/Chemistry Combo Course**
  (10th-12th)

Additional ELECTIVES (10th-12th)
- Physics
- Chemistry
- ChemCom
- Physical Science
- Environmental Science
- Astronomy
- Zoology
- Anatomy & Physiology
- AP Chemistry
- AP Biology
- AP Environmental Science
- AP Physics

AP Science Course Offerings:
- AP Biology
- AP Chemistry
- AP Environmental Science
- AP Physics

** Some Electives May have additional Prerequisites – See Course Description
HS SCIENCE GRADUATION REQUIREMENTS-
BEGINNING WITH THE CLASS OF 2021

THREE REQUIRED SCIENCE CREDITS:

1. EARTH SCIENCE
   can be completed by ONE of the listed courses
   - Environmental Science (replacing GeoPhysical Science)
   - AP Environmental Science
   - IB Earth Systems

2. LIFE SCIENCE
   can be completed by ONE of the listed courses
   - Biology
   - AP Biology
   - IB Biology

3. PHYSICAL SCIENCE
   can be completed by ONE of the listed courses
   - RECOMMENDED:
     - Chemistry/AP Chemistry/Chemistry in the Community
     - Physics/AP Physics
   - OTHER PHYSICAL SCIENCE OPTIONS:
     - Astronomy
     - River Dynamics
     - Food Science
     - Agricultural Sciences
     - WCCC: STEM Discovery and Transportation Services
     - Career Center: Culinary Arts, Horticulture and Sport Vehicle

Students interested in pursuing science related careers are advised to take both chemistry and physics.

SCIENCE COURSES FOR ELECTIVE CREDIT:
Zoology, Anatomy and Physiology, Geology, Botany, AP/IB sciences taken in addition to the above requirements, Medical Prep at WCCC, Health Care and Small Animal at Career Center

9th GRADE SCIENCE OPTIONS

<table>
<thead>
<tr>
<th>1. Environmental Science</th>
<th>2. AP Environmental Science and Biology</th>
<th>3. Biology</th>
</tr>
</thead>
<tbody>
<tr>
<td>•This class is replacing GeoPhysical Science and is recommended for most students.</td>
<td>•Concurrent enrollment in AP Environmental Science AND Biology is advised for advanced students*.</td>
<td>•Recommended for students who are interested in taking AP Environmental Science during their sophomore year.</td>
</tr>
</tbody>
</table>

*Please consider a body of evidence (such as academic performance, intellectual curiosity, work habits, etc.) to determine whether a student is ready for an advanced placement course.
SCIENCE COURSE SEQUENCE FOR CHS

Earning credit in the following two courses in required before pursuing additional Science courses:

☐ GeoPhysical Science or Honors GeoPhysical (Teacher Recommendation)

☐ Biology or Honors Biology (Teacher Recommendation)

**Geophysical Science and Biology must be taken before the following classes.**

Some classes may be taken concurrently.

Some of the courses require additional prerequisites.

*The prerequisites follow the class and are marked with an “*”

☐ 3rd Year Choice

- Physics – *Completion of GeoPhysical/Environmental Science & Biology with successful completion of Math 1 (C or above) and Concurrently enrolled in Math II
- Chemistry – *Math II
- ChemCom – *Math I
- Physical Science/Applied Physics
- Environmental Science
- AP Environmental Science

☐ Electives

- AP Biology – *Chemistry
- AP Chemistry – *Chemistry
- AP Environmental Science
- Astronomy
- River Watch
- Zoology

SCIENCE COURSE REQUIREMENTS FOR CHS

Graduation Requirements-----------------3 Science Credits

STATE & DISTRICT CONTENT STANDARDS

Standard 1~~~~~~Process
Standard 2~~~~~~Properties of matter, forms of energy and their intention
Standard 3~~~~~~Traits and structures of living things, interaction with environment
Standard 4~~~~~~Dynamics of Earth, process and interaction of systems and space
Standard 5~~~~~~Understand the nature of science

All Courses at CHS Meet Standards 1, 5, & 6

Required to pass (1) to fulfill graduation and state content requirements from each of the following categories:

*Courses to meet Standard 2: GeoPhysical Science A, Physical Science

*Courses to meet Standard 3: Biology, Pre AP Biology

*Courses to meet Standard 4: GeoPhysical Science B, Earth Science
This is a recommended sequence for Students pursuing Science Related Fields in College

Such As: Medicine, Engineering, Research, Wildlife Biology, Environmental Sciences, Chemistry, Oil Exploration, Health Sciences, Water Management, Ecology, Space Exploration, Geology, Agriculture, Fisheries, Land Management, Dentistry, Veterinary Medicine, etc...........

<table>
<thead>
<tr>
<th>Freshmen Recommended Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honors Environmental or Environmental Science</td>
</tr>
<tr>
<td>Additional Option with Recommendation: Honors Biology and AP Environmental Freshman year with Chemistry Sophomore year</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sophomore Recommended Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology or Honors Biology</td>
</tr>
<tr>
<td>Advanced Students: Honors Biology &amp; Chemistry (taken concurrently)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Junior &amp; Senior Recommended Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year Long = AP Biology, AP Chemistry, AP Environmental, AP Physics, Intro to Surveying</td>
</tr>
<tr>
<td>Science Electives</td>
</tr>
<tr>
<td>Anatomy &amp; Physiology</td>
</tr>
</tbody>
</table>
SCIENCE

STUDENTS MAY CHOOSE FROM ANY OF THE FOLLOWING COURSES TO EARN A SCIENCE CREDIT. PREREQUISITES MUST BE FULFILLED BEFORE ENTERING A COURSE.

CORE COURSE FRESHMAN YEAR

ENVIRONMENTAL SCIENCE  □□□□□
1.0 Credit  
GRADE 9

Environmental science is an interdisciplinary, laboratory-based course with the foundation in earth science and thematic connections between multiple disciplines, including life science, physical science, mathematics, and language arts. The course is designed for students to investigate a variety of scientific concepts as they manifest in our environment and connect them with issues of local and/or global significance. Students will engage in science practices such as questioning, designing experiments to gather evidence, solving problems, developing models, and communicating scientific phenomena.

HONORS ENVIRONMENTAL SCIENCE  □□□□□
1.0 Credit  
GRADE 9

This course is a higher level version of Environmental Science. Students must be recommended for this class based on past science experiences, interest, and academic performance. The course is designed to give a more in-depth coverage of the lab-based course. It is rigorous and demanding, and faster paced than the basic course.

CORE COURSE SOPHOMORE YEAR

BIOLOGY  □□□□□
1.0 Credit  
GRADES 9 - 10
Fee: $15.00
Prerequisite: Geophysical Science or Honors Geophysical Science

Biology is the study of the characteristics of living organisms. Through class discussions and laboratory investigation the student will explore the relationships of life forms. This course examines human relationships, interactions, and impacts on the environment. The students will be encouraged to become problem solvers and apply the basic background knowledge of the course. The class is intended to form a foundation for additional science courses and serves as the prerequisite for further science study. All students will benefit from studying biology for their careers and daily life.

HONORS BIOLOGY  □□□□□
1.0 Credit  
GRADES 9 - 10
Fees: $15.00
Prerequisites: Teacher Approval & Recommendation by your Freshman Science Instructor or Successful Completion of Honors Geophysical Science (No D's or F's)

Honors Biology studies fundamental biological concepts at a greater depth than Biology. Emphasis is given to the development of laboratory skills, applying biological knowledge and critical thinking to environmental and social problems, and improving study skills for post-secondary education.

3rd Recommended SCIENCE ELECTIVES

CHEMISTRY  □□□
1.0 Credit  
GRADES 10 - 12
Prerequisite: Math 2 completed with a C or Above
Fee: $10.00

Chemistry deals with the structure of matter. Emphasis is in chemical bonding, atomic structure, chemical equations, computations, and fundamental laws and theories. Laboratory experience will be used in the application of these topics.
PHYSICS  1.0 Credit
Prerequisite: Completion of GeoPhysical/Environmental Science & Biology and Successful (grade of C or above) in Math 1 AND Concurrently enrolled in Math 2

Physics is a comprehensive analysis of physical laws of the universe. Through class discussion and laboratory investigation the topics of heat, light, sound, electricity, force and motion will be covered. The class will explore a practical application of physical properties in relation to the environment. The course is intended for any student pursuing higher education.

ADVANCED PLACEMENT BIOLOGY  1.5 Credit
Prerequisites: Biology (earned grade C or better), Must Have Chemistry ( Concurrent Chemistry is allowed) Lab Fee: $15
Other recommended classes (not required) to be taken prior to AP Biology: Anatomy and Physiology and/or Zoology and/or Botany and/or Environmental Science

The AP Biology course is equivalent to a two-semester college introductory biology course usually taken by biology majors in their first year. The course is an in-depth, accelerated study of biological concepts associated with 1. Molecules and Cells, 2. Genetics and Evolution, and 3. Organisms and Populations. College credit may be obtained upon successful completion of the College Board Biology Examination. Please see the AP section for details.

ADVANCED PLACEMENT CHEMISTRY  2.0 Credits (taken in a 90 minute block all year)
Prerequisite: Completion of Math 3
Fee: $15

AP Chemistry is a college level course examining the process of chemistry; including the how and why of chemical reactions and their interaction with the environment. This course is intended for college-bound students intending to major in math-science related fields. Advanced Placement Chemistry is a college-level Chemistry course. College credit may be obtained upon successful completion of the College Board Chemistry Examination. See AP section. **Students will earn 1.0 Chemistry credit as well as 1.0 elective, or 2.0 elective credits if students have already passed Chemistry.

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE  1.5 Credit
Prerequisite: Completion of Biology with an A or B, Biology Concurrent**Freshmen with recommendation or placement in the STEM Academy program
Fee: $15

This course is designed to be the equivalent of a college-level semester course in Environmental Science. Environmental Science is an interdisciplinary field of study. The goal of this class is to integrate knowledge from all Sciences, Math, History, Sociology, as well as Political and legal topics. The class attempts to help students understand the processes that shape the natural world and more importantly, how humans impact this planet. The course is lab and activity Based. The course follows the curriculum recommended by the College Board, and students are strongly encouraged to take the AP exam offered by the College Board in May. This Course does require off campus field study on occasion. See AP section.

ADVANCED PLACEMENT Physics “B”  1.5 Credit
Prerequisite: Math 2 completed Fee: $15
This course provides an understanding of the basic principles involved with physical concepts and the ability to apply these principles in the solution of problems. The course content includes topics in mechanics, kinetic theory and thermodynamics, electricity and magnetism, waves, and optics, and modern physics. AP Physics "B" exam taken in the spring. See AP section. **Students will earn 1.0 Physics credit as well as 1.0 elective, or 2.0 elective credits if students have already passed Physics.
**CHEMISTRY IN THE COMMUNITY**

1.0 Credit  
**GRADES 11 - 12**

Prerequisite: Geo Physical Science / Bio Completed - Math 1 completed with C or Above  
Fee: $15

Chemistry in the Community (ChemCom) is a class designed to enhance the impact of chemistry on society. The topics covered serve as basis for introducing the chemistry needed to understand and analyze it. Major topics include: water, resources, petroleum, food (additives and nutrition), health, industry, climate and nuclear energy. The units cover basic vocabulary, math, problem solving skills and laboratory methods. **This is not a pre-Chemistry class.**

**ADDITIONAL SCIENCE ELECTIVES**

**ANATOMY AND PHYSIOLOGY**

1.0 Credit  
**GRADES 10 - 12**

***Sophomore MUST have approval***  
Prerequisite: Bio/Geo Phys (Passed Biology with C or above) Chemistry recommended but not required  
Lab Fee: $15

In Anatomy and Physiology, students become familiar with all organ systems and their associated diseases. Human systems are examined from the molecular level to the organ level of organization. The class is intended for students who plan to have a future career in a science or health related field.

**ASTRONOMY**

1.0 Credit  
**GRADES 10 – 12**

Math Requirement: Completion of Math 1

Course includes basic astronomy to include planetary science and information about solar systems, stellar evolution, basic cosmology, and history of the Universe. Students will have multiple opportunities to use several types of telescopes and may participate in online astronomy-related activities sponsored by NASA and/or aerospace industry groups.

**RIVER WATCH**

Independent Study, ¼ Credit for every 33 hours of volunteering  
**GRADES 9 - 12**

**Prerequisite: Interest in science**

Students participate in a statewide River Watch program that monitors water quality of Colorado rivers, lakes, and aquatic ecosystems. Student volunteers analyze samples for hardness, alkalinity, dissolved oxygen, pH, and temperature. This data is utilized by the Water Quality Control Commission, the Colorado Division of Wildlife, and many other state organizations that manage Colorado’s waters.

**ZOOGOGY**

1.0 Credit  
**GRADES 10- 12**

Prerequisite: Geo Physical Science & Biology  
Fee: $22.00

Zoology is a survey of the animal kingdom with an analysis of systems relevant to their classification. The intention is to help students appreciate a variety of life forms and their unique and similar characteristics. It is intended for students with a love of animals and a desire to expand their knowledge of animal diversity.

**STEM Discovery Classes**

0.5 Credit  
**GRADES 10-12**

Prerequisite: Geo Physical Science & Biology or Teacher Recommendation  
These courses are .5 credit These courses may be stand alone or part of the AP coursework. Students taking these classes should have a HIGH interest in science and/or included in the STEM Program or STEM pathway.
**Meteorology**

Meteorology is a course designed to familiarize students with earth’s atmosphere and the weather events that take place in it. Fundamental chemistry and physics principles are utilized to help explain common weather and phenomena that can be observed throughout the world. A combination of laboratory activities, weather tools and data collection are used to make students literate in the process of forecasting and broadcasting the weather.

**GIS/GPS Field Studies**

GPS is a satellite-based navigation system that provides all-weather, worldwide, 24-hour position and time information. GPS can be used for a variety of applications to collect location information for use in Geographic Information Systems (GIS). Course topics include: planning for data collection; field data collection; processing using differential correction; using GPS data in GIS; and GIS applications.

**Outdoor Wilderness Leadership in Science (OWLS)**

Science based lab and leadership class in which students learn content and skills needed become an outdoor educational counselor. This class uses a problem-based approach in which counselors are trained to become Camp Counselors at the Bookcliff Middle School OWL Camp in the spring of each year. Science topics include, water, soil, forestry, biodiversity, renewable and non-renewable energy, hunter education, archery, fishing, and other natural resource topics.
SOCIAL STUDIES

SOCIAL STUDIES FLOWCHART

REQUIRED
Global Studies
1 Credit
2 Terms
Grade 9

United States History
1 Credit
2 Terms
★ Grades 10-12

American Government
½ Credit
1 Term
Grade 12

RECOMMENDED
Law Related Education
Grade 9

junior ROTC
Grade 9

ELECTIVES
½ CREDIT REQUIRED

Colorado History
10-12

Ethnic Studies
10-12

Ancient World History
10-12

Medieval World History
10-12

Early Modern Times World History
10-12

20th Century World History
10-12

Comparative Religions
11-12

★ Micro/Macro Economics
11-12

★ Psychology
10-12

★ Sociology
10-12

AP U.S. History
10-12

★ AP Human Geography
9-12

★ AP Psychology
10-12

★ These courses may be taken by sophomores with a 3.0 GPA or above.

3 CREDITS REQUIRED FOR GRADUATION
ADDITIONAL SOCIAL STUDIES ELECTIVES RECOMMENDED
CORE COURSE LEVEL 9

GLOBAL STUDIES □□□□□
1.0 Credit 
Required Course

Global Studies A (Required) Focus areas; Introduction to Global Studies, Anglo America, Europe, Latin America, and Sub-Saharan Africa

Global Studies B (Required) Focus areas: Power, Movement, Culture and Conflict, Resources/Environment and Population

The study of history, geography, economics, and civics is the study of humanity, of people and events that have individually and collectively shaped our nation and the world. A strong and effective social studies program helps students make sense of the world in which they live and helps them see themselves as active global citizens.

Global studies is designed to help students understand the interconnectedness of the world. Students will investigate the world and develop the knowledge and skills in history, geography, civics, and economics. The course provides students with the opportunity to explore and compare various regions and cultures through thematic units. In addition, the course enables students to investigate issues and themes from multiple perspectives using a variety of primary and secondary sources that lead to in-depth understanding. As students engage in the four social studies standards, they will have multiple opportunities to explore the content and skills of the social science disciplines.

ADVANCED PLACEMENT HUMAN GEOGRAPHY □□□□□
1.0 Credit

Freshmen must have a recommendation from a teacher or counselor

AP Human Geography is the study of diverse peoples and regions and the environmental consequences of human activity. Geography tools, models, theories, and inquiry will be used to study population, regional variations of culture, rural and urban land use, cities and agriculture, economic activities, and the political organization of the earth. Students must complete both terms to earn weighted GPA. This course culminates with the Advanced Placement Human Geography examination.

CORE COURSE LEVEL 11

UNITED STATES HISTORY □□□□□
1.0 Credit

Required Course

Strongly recommended at Grade 10

US History explores in depth history, civics, geography, and economics themes in US History from Industrial Revolution to present. This course builds on skills which will include cause and effect relationships, analysis, evaluation, and the use of primary sources to prepare students for the 21st Century.

The following three strands will be incorporated throughout the course:

1. Gather and analyze historical information, including contradictory data, from a variety of primary and secondary sources, to support or reject hypotheses and/or create an historical argument.
2. Differentiate between facts and historical interpretations, recognizing that a historian’s narrative reflects his or her judgment about the significance of particular facts.
3. Analyze ideas critical to the understanding of American history. Topics to include but not limited to populism, progressivism, isolationism, imperialism, anti-communism, environmentalism, liberalism, fundamentalism, and conservatism.

ADVANCED PLACEMENT U.S. HISTORY □□□□□
1.0 Credit

Grades 10 - 12

Students taking Advance Placement U.S. History will examine ideas, institutions, and movements in American life and culture. Students will become aware of and appreciate their American heritage, develop a realistic comprehension of the role of the United States in world affairs, and better understand the forces that have shaped America. The course will proceed chronologically from discovery to modern times. This is a class for advanced students. It is designed to be at least equal to a college freshman level United States History course. This course is designed to prepare students for the National Advanced Placement Examination in United States History. See AP section. Students must complete all three terms to earn weighted GPA.
CORE COURSE LEVEL 12

AMERICAN GOVERNMENT □□□□□□
.5 Credit
Required Course, Recommended to be taken after US History. Grade 12

This course prepares students for their roles as informed, connected and engaged American citizens and Global citizens ready to participate in the American Political system. Students must understand the ramifications of political decisions at the local, state, national, and international levels as well as their interdependent nature. Students will know the basic building documents of the American Political system, their history and impact on current policies. Students will investigate the structure of the American government system, the three branches, Federalism and how these philosophies interact to form the American political milieu.

ADVANCED PLACEMENT GOVERNMENT & POLITICS □□□□□□ Grade 11-12

This college-level course is an introduction to the United States national government and political system. We study government institutions and political processes and examine policy choices. The institutions and policies of the United States government will be considered in light of historical change, constitutional procedures, and comparative perspectives.

ADVANCED PLACEMENT COMPARATIVE GOVERNMENT □□□□□□ Grade 11-12

This college-level course focuses on important concepts in comparative government. Specific case studies include the nations of Mexico, Great Britain, Nigeria, Russia, China, and Iran. The history, government, economies and societies of each country that we learn about will be discussed. Cross-country comparisons (e.g. Great Britain’s democracy vs. Nigeria’s) will be made throughout the course.

FRESHMAN OPTIONS

CURRENT EVENTS □□
.5 Credit
GRADES 9-10

Current Events is a class in which students explore the world they live in today. Whether it be the news of that day or ongoing issues in our local, state, national, or world stage students will learn to understand not just that it is happening but why it is happening through meaningful conversation, research, reading and presentations.

LAW RELATED EDUCATION □□
.5 Credit
GRADE 9-10

Recommended

This class examines the social reasons and ethics behind laws, enforcement, and the judicial process. Students in this class will be introduced to the American legal system with expertise coming from community resources such as police, sheriffs, public defenders, district attorneys, and judges. Criminal and civil aspects of law will be covered in cooperative group settings to develop social responsibility toward society.

JROTC - LEADERSHIP EDUCATION TRAINING (LET 1) □□□□□□
See page 21 for complete JROTC course outline - Recommended GRADES 9-12

Students are introduced to the history, purpose and objectives of the ROTC program. A comprehensive study of personal hygiene, first aid and life saving measures are provided for the student. Students are introduced to map reading, weapons and weapons safety, and marksmanship. They also receive an introduction to methods of instruction and leadership development and drill. The class will be divided into squads and platoons for military review and drill activities.

ELECTIVE COURSES

20th CENTURY WORLD HISTORY □□
.5 Credit
GRADES 10 – 12

Students will study the period of history from the modern Industrial Age to the contemporary world. The course will cover the rise of Nationalism and conflicts of the modern era, and will examine modern economic interdependence of nations. 20th Century World History will prepare students to master current historical problems with greater proficiency.
ANCIENT WORLD HISTORY

.5 Credit

Students will study the development of societies that contributed to modern culture. Topics of study will include the development of religious ideas, political systems, cultural values, artistic creativity, and technology. This course will cover the beginnings of man, ancient Egypt, Mesopotamia, India, China and Japan, and the civilizations of Greece and Rome.

COLORADO HISTORY

.5 Credit

This course surveys prehistoric peoples of Colorado, native peoples, the Spanish frontier, fur trade, mining, transportation, political development, the cattle industry, industrial and energy-related growth, resource allocation, tourism and issues confronting Colorado's future. This course involves independent research.

COMPARATIVE RELIGIONS

.5 Credit

Comparative Religions is a course about the major religions of the world and the place of religion in human affairs. This course will identify the basic concepts of the major living religions and philosophies of Judaism, Christianity, Islam, Hinduism, Buddhism, Taoism, Confucianism, and Shinto. Geographic influences, historical events, founders, sacred writings, practices, and ceremonies will be explored. Religious concepts and philosophical views will be discussed in an academic and nonjudgmental environment.

CURRENT EVENTS

.5 Credit

Current Events is a class in which students explore the world they live in today. Whether it be the news of that day or ongoing issues in our local, state, national, or world stage students will learn to understand not just that it is happening but why it is happening through meaningful conversation, research, reading and presentations.

EARLY MODERN TIMES WORLD HISTORY

.5 Credit

Students will study the development of world civilizations from the time of European exploration to the twentieth century. Topics will include the Enlightenment, Imperialism, the American and European revolutions, nationalism and the Industrial Revolution.

MICRO/MACRO ECONOMICS

.5 Credit

*SATISFIES THE FINANCIAL LITERACY REQUIREMENT

The purpose of this course is to help students understand the American economic system of free enterprise so that they will be able to make better financial, employment, and personal decisions. Students will study how the U.S. economy works by examining the basic elements of the free market system, the interaction of supply and demand, the banking system, and the national economic policy.

MEDIEVAL WORLD HISTORY

.5 Credit

Students will study the European medieval world through the Renaissance, including the Byzantine Empire and the rise of Islamic nations.

PSYCHOLOGY

.5 Credit

Psychology is the study of mental processes and behavior. The course will cover such topics as sensation, perception, memory, thought, learning, human relations, personality, behavior disorders and mental health. Types of therapy, techniques of mental measurement, and statistics will also be studied. Consideration will be given to theory and research relative to the topics.
ADVANCED PLACEMENT PSYCHOLOGY  □□□□
1.0 Credit - Approval of Teacher  ★  GRADES 10 - 12

Psychology is a vibrant, living, and ever-growing science. Although its roots are in the distant past, it flourished in the twentieth century. Psychology might be called the science of today; concerned with the current problems in the contemporary affairs of mankind. The first term of study will include the physiological basis of behavior; sensation and perception; states of consciousness; learning and memory; motivation and emotion; and stress and frustration. Second term study will look at the topics of developmental psychology; personality theory and measurement; language; thought and intelligence; abnormal behavior; psychotherapy and social psychology. The course culminates in the Advanced Placement Psychology Examination. See AP section. Students must complete both terms to earn weighted GPA.

SOCIOLOGY
.5 Credit  ★  GRADES 10 - 12

This course explores important societal factors such as culture, group structure and function, norms, socialization, social behavior, deviance, racial and ethnic relations. In addition, social institutions, including marriage and family, religion, and education will be covered.
STEM AT CENTRAL HIGH SCHOOL

STEM (Science, Technology, Engineering and Math) at Central is a curriculum of set courses and extra-curricular opportunities that set the foundation for students to excel in STEM careers and/or post-secondary STEM education. There are two STEM program options at this time:

STEM College Prep Academy:

Students admitted into the STEM ACADEMY will take at least 4 STEM electives during their high school career. These STEM electives are courses that expose students to STEM topics and the skills/understanding to continue into higher level, focused STEM courses and/or a post-secondary degree in a STEM major. Students are always encouraged to look at electives offered by the Career Center or WCCC in addition to offerings at CHS.

In addition to the recommended course of study that includes STEM electives, STEM ACADEMY students will have the opportunity to:

- Specialize in math, science, or humanities coursework, including Advanced Placement offerings. STEM ACADEMY students will be required to complete between 6 and 8 AP courses, and will be considered AP Scholars and recognized at graduation.
- Take a minimum of 4 STEM electives throughout their careers at Central.
- Compile an electronic portfolio of STEM PROJECT artifacts that can be shared with colleges.
- Complete a senior STEM CAPSTONE PROJECT under the supervision of a STEM teacher and in conjunction with a community partner. Completers will also present these projects to a large audience and be distinguished at graduation.
- Participate in extracurricular activities and be encouraged to start unique clubs based on student interests.
- Complete an apprenticeship/internship with a community STEM partner.

STEM Electives:

STEM electives are open to all students, and those interested in these courses will be choosing STEM electives that are developed specifically with the goal of preparing students to be successful in a STEM career right out of high school or a two-year specialized educational opportunity. Students are always encouraged to look at electives offered by the Career Center or WCCC in addition to offerings at CHS.
### Foundational STEM @ CHS

<table>
<thead>
<tr>
<th><strong>Science</strong></th>
<th><strong>Technology</strong></th>
<th><strong>Engineering</strong></th>
<th><strong>Math</strong></th>
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</thead>
<tbody>
<tr>
<td>Geo-Physical or Honors</td>
<td>Intro to Tech/Engineering</td>
<td>Intro To Tech/Engineering</td>
<td>Math 1</td>
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<tr>
<td>Biology or Honors</td>
<td>Aerospace</td>
<td>Arch/Structural Design</td>
<td>Math 2</td>
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<tr>
<td>Chemistry in the Community</td>
<td>Land Transportation</td>
<td>Robotics</td>
<td>Math 3</td>
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<tr>
<td>Astronomy</td>
<td>Process Technology</td>
<td>MESA (Club)</td>
<td>Personal Finance</td>
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<td>Chemistry</td>
<td>Computer Applications</td>
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<td>Math 108 (Tech Math)</td>
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<tr>
<td>Environmental Science</td>
<td>Web Design</td>
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<td>Applied Physics</td>
<td>Math 108 (Tech Math)</td>
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<tr>
<td>Other Science Related Options</td>
<td>Applied Physics (Sci)</td>
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<td>Personal Fitness &amp; Wellness</td>
<td>Tech English (Eng)</td>
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<td>Sociology</td>
<td>Cyber Patriot (Club)</td>
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<td>Psychology</td>
<td>Career Center</td>
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<tr>
<td>River Watch (Club)</td>
<td>Computer Maintenance</td>
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### Career and Post-Secondary STEM @ CHS

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<thead>
<tr>
<th><strong>Anatomy/Physiology</strong></th>
<th><strong>Architectural Design</strong></th>
<th><strong>Introduction to Design</strong></th>
<th><strong>Math 4</strong></th>
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</thead>
<tbody>
<tr>
<td>Med Prep 1 or 2</td>
<td>Structural Design</td>
<td>Applied Engineering</td>
<td>AP Calculus</td>
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<tr>
<td>AP Biology</td>
<td>AP Computer Science</td>
<td>AP Physics</td>
<td>AP Statistics</td>
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<tr>
<td>AP Environmental Science</td>
<td>Programming</td>
<td>WCCC</td>
<td>Accounting</td>
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<td>AP Chemistry</td>
<td>Mass Communications</td>
<td>Digital Design</td>
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<td>AP Physics</td>
<td>Robotics</td>
<td>Machining Tech</td>
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<td>WCCC</td>
<td>Process Systems Tech</td>
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<td>Computer Networking Tech</td>
<td>STEM</td>
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<td></td>
<td>Digital Design</td>
<td>Technology Integration</td>
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<td></td>
<td>Machining Tech</td>
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<td>Media Tech</td>
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<td>Process Systems Tech</td>
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<td>STEM</td>
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<td>Transportation Services</td>
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<td>Welding Tech</td>
<td></td>
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</tr>
</tbody>
</table>
STEM - Technology and Engineering Department

SCIENCE

Vocational Science Courses
A hands-on science class designed for students who are interested in Technology and Engineering.

TECI 110 Applied Physics
1.0 credit Grades 11 - 12

This course provides an introduction to physics using applications from various technology-related disciplines. It includes coverage of linear and rotational motion; energy, work, and power; heat and temperature; fluids; waves; and magnetism. Illustrations are used as an integral part to support the written information and to make it easier for students to visualize and understand the concepts. Practical examples of physics in industry, especially in the field of electronics, help to reinforce and apply the concepts presented in the course.

TECHNOLOGY EDUCATION

CLASSES OF THE FUTURE...TODAY
The classes are designed for all students at any level of development. The program is a research based, problem-solving, hands-on, activities class. The goal is to help students explore and learn processes that can be used in helping them to determine careers they might be interested in.

TRANSPORTATION

AEROSPACE

.5 Credit Grades 9 - 12
Fee: $20.00

Students will research, design, and build projects based on the varied aspects of Aerospace Industry. This class will cover various forms of propulsion used in rocketry, hot air balloons, planes, gliders, and other forms of flight. Designs and projects will be based on individual interests, research, and creativity. Students will learn about aerospace and aerodynamics through simulation programs and by building projects that they research and design.

LAND TRANSPORTATION

.5 Credit Grades 9 - 12
Fee: $20.00

Are you looking for a fun class that will widen your knowledge about transportation? This course will look at many different forms of transportation. Students will research, design, build, and test a variety of vehicles. Rock crawlers, rocket and air powered vehicles, magnetic levitation, wind powered cars and solar vehicles will all be covered in this class. Power and hand tool use and safety will be a priority of this class.
MANUFACTURING

**PRODUCTION**

.5 Credit  Grades 9 - 12
Fee: $20.00
This is the class for students who like to run machinery and work with their hands. Power and hand tool use and safety will be a priority of this class. Students will research, design, and build projects based on basic mass production techniques. Teams will work through the entire production process from design and prototyping to the mass production of their designs. Students will design and mass produce wooden toys and build several other wooden projects.

**ROBOTICS**

.5 Credit  Grades 9 - 12
Fee: $20.00
Robotics is an industry that is constantly growing and expanding. In this class students will research, design, and build projects based on the field of robotics. Projects will include various forms of robotic fingers and hands, end effectors, faces, and the actual construction of a hydraulic or electronic robot. Students will learn about pneumatics, hydraulics, electronics and mechanical design along with basics in control and programming by designing and building robotic systems. Power and hand tool use and safety will be a priority of this class.

**MECHANICAL**

.5 Credit  Grades 9 - 12
Fee: $20.00
This class will cover basic concepts in Mechanical Engineering. Students will research, design, and build projects that demonstrate mechanical motion and structure. Students will build Mechanical Toys and will be challenged by various problem solving activities and projects to test and expand their skills. Projects may include work in the areas of electronics, pneumatics and hydraulics. Power and hand tool use and safety will be a priority of this class.

CONSTRUCTION

**POWER AND ENERGY**

.5 Credit  Grades 9 - 12
Fee: $20.00
A great class for both the hands-on student and the student interested in science. Students will learn about alternative power by building wind generators, solar cookers, and solar powered vehicles. This course will look at many forms of power and energy. Students will research, design, and build projects based on their research. Power and hand tool use and safety will be a priority of this class.

**ARCHITECTURAL DESIGN**

.5 Credit  Grades 9 - 12
Fee: $20.00
What will your dream home look like? In this course students will research, design, and build models of their dream home. We will look at all the cool new gadgets that are now available for the modern home and students will learn about both modern and alternative forms of house construction. A construction and marketing simulation program will be used to demonstrate the process of building and selling your home. This course will cover techniques of basic technical drawing. Students will learn building techniques by producing scale models of their house design. Power and hand tool use and safety will be a priority of this class.

**STRUCTURAL DESIGN**

.5 Credit  Grades 9 - 12
Fee: $20.00
Do you like to build really cool projects? Structural design is the place for you. Bridges, towers, cranes and even catapults are built to demonstrate the structure and function of the construction process. Students will research, design, and build various structures and then bend, crush or push them to their limits when we demonstrate their efficiency. Lots of hands-on skills will be learned in a student friendly work environment. Power and hand tool use and safety will be a priority of this class.
Engineering Classes

Introduction to STEM 1.0 Credit
Fee: $20.00

This class is an introductory class designed to help students become acquainted with technology and engineering processes. It is intended for students interested in exploring technology and engineering occupations such as manufacturing, construction, transportation, aerospace or engineering as their desired career path. Throughout this course, we will look into the various opportunities available to students in these professions through guest speaker presentations, field trips, research and hands on projects intended to teach safety and introduce both Computer Aided Drafting (CAD) and 3D modeling techniques. This course is highly recommended as the foundation course for those students looking to continue on a technology or engineering career track.

Engineering Design

Prerequisite: Recommended: Intro to Technology Engineering Education, Freshmen need Instructor approval

1.0 Credit
Fee: $20.00

Introduction to Design is the second level course on the engineering track (Introduction to Technology Engineering Education) and focuses on utilizing the design process to explore the idea of innovation. Students will develop strong Computer Aided Drafting (CAD) skills through 3D modeling with Autodesk Inventor software. Classroom tasks and assignments are intended to develop the student’s ability to work in a team environment, use technology in support of research and formal presentations and enhance communication skills through the development of detailed drawings meeting manufacturer’s requirements for production. If desired, students will have the opportunity to participate in an enhanced final project which can be presented and evaluated for potential CAD credit with Western Colorado Community College.

Applied Engineering

Prerequisite: Recommended: Intro to Design

A course that helps students develop an understanding of the field of engineering/engineering technology and use the engineering design process to solve problems. Exploring simple machines, electricity, electronics, and computer control systems provides a foundation of 21st Century skills that will be used in the building and programming of computer controlled machines to solve specific challenges. These activities help students learn how engineers and technicians use math, science and technology in a team environment to develop, build, program and test solutions to everyday problems.

Introduction to Surveying

Prerequisite: Completion of Math 3 with a C or above

Course Description: This year-long course is designed to be an overview of the surveying profession. We will explore the history of surveying and its impact on the world. We will consider the public, quasi-public, and private depositories of recorded and non-recorded documents that establish land ownership boundaries, easement boundaries, and land use rights and restrictions. We will examine areas of real property law, including the nature of real property and types of ownership. A history of geodesy – measurement techniques and coordinate systems – will be reviewed. The modern geodetic and Cartesian coordinates systems, as well as the differences between grid and ground coordinates systems, and the current geodetic and Cartesian coordinate systems available today will be discussed. We will present basic surveying equipment with emphasis on horizontal and vertical measurements. The mathematics used in surveying will be emphasized: measurements of distances, elevation and angles as well as basic error theory in these measurements and calculations. We will explore the basic concepts of geographic information systems and their applications to surveying and analysis of other surveying problems.
MATH

Vocational Math Courses

An applied math class designed for students who are interested in Technology and Engineering

**NEW MATH 108 - Technical Mathematics**

0.5 credit

Grades 9 - 12

**Course Description**

This course is designed to provide students with a practical application to mathematics. Topics include common fractions and decimals, units of measure, use of graphs, fundamentals of algebra (with algebraic equations, formulas, and systems) plane geometry, geometric solids, and introduction to vectors, statistics and to trigonometric functions. (Hand held scientific calculator required).

**BUSINESS MATH**

0.5 Credit

Grades 11 - 12

This course is designed to assist students in learning to use math effectively as a tool in their lives as workers and consumers. Algebraic concepts will be used to assist students in their approach to problem solving in a logical manna. Technology tools such as calculators, spreadsheets and the Internet will be used to address realistic business situations such as personnel, payroll, purchasing, marketing, accounting records, insurance, and business technology. **This course may be taken for .5 level one math credit.**

**PERSONAL FINANCE**

0.5 Credit

Grades 11 - 12

**This class meets the district requirement for Financial Literacy**

**Prerequisite**: Completion of Core Math Credits

This course emphasizes lifelong decision-making skills in personal financial management: exploring the economic way of thinking, calculating taxes, spending and budgeting, credit and debt, saving and investing, and types of insurance. This course will give a student hands-on experience through computer simulations, websites, and financial calculators, as well as a connection with real-world expertise through guest speakers. **This course may be taken for .5 level one math credit.**

**ACCOUNTING I – A & B**

1.0 Credit

Fee: $20.00

**1A** Introduces students to the principles and practices of accounting for a sole proprietorship. Students will analyze classify, and record financial transactions according to the accounting equation both manually and electronically.

**1B** Prerequisite: 1A Passed with a C or better — Building on skills learned in 1A students will create journal entries in special journals and subsidiary ledgers. Students will learn the accounting methods for recording sales, inventory, and payroll. Emphasis is placed on posting from a general journal and subsidiary journals to general ledger accounts and auditing results for validity and accuracy.
The solid lines represent the preferred course path. The dashed lines illustrate an acceptable (but not recommended) path.

**ADVANCED ART**

.5 Credit  
**GRADES 11 - 12**

Prerequisite: Art I & 3 or 4 other Art classes – Must have teacher approval.

Fee: $20.00

This course provides an opportunity to experiment with the art journal as a tool to explore personal and social issues, to develop artistic style, and to generate creative ideas that can be expanded into larger works of art.

**ART I**

.5 Credit  
**GRADES 9 - 12**

No Prerequisite

Fee: $20.00

Art I is a foundation level course. Emphasis will be given toward developing basic drawing skills. This course will also introduce students to a variety of art materials and processes through use of an art book. Students will learn to use and recognize the elements of art. This course is a prerequisite for all other art courses.

**ART II**

.5 Credit  
**GRADES 9 - 12**

Prerequisite: Art I

Fee: $20.00

This course continues the study of design from Art I. Emphasis will be on intermediate drawing techniques and focusing on composition and style.

**DRAWING/PAINTING I**

.5 Credit Each Term  
**GRADES 9 - 12**

Prerequisite: Art I

Fee: $20.00

This course provides a deeper study of basic drawing and painting techniques and media for students who have successfully completed Art I. Continues emphasis on design concepts and the development of personal imagery is stressed.
DRAWING/PAINTING II
.5 Credit Each Term

Prerequisite: Drawing and Painting I
Fee: $20.00

This course provides an opportunity to continue development of drawing and painting skills. Students will consider a broad range of issues as they pursue avenues for personal expression. Artistic statement, media, and technique are important focal points in this course.

CERAMICS I
.5 Credit

Fee: $20.00

At the introductory level of Ceramics I, this course focuses on the fundamentals of clay, with the exploration of 3-D clay while using a variety of techniques of hand building.

CERAMICS II
.5 Credit

Prerequisite: Ceramics I
Fee: $20.00

At this advanced level of Ceramics II, this course will be focusing on a strong emphasis in visual problem solving of 3-D clay and the continuation of creative growth using the techniques of underglazes, and arraya glazes.

PRINTMAKING/MIXED DESIGN
.5 Credit

Prerequisite: Art I
Fee: $20.00

This course will provide experience in a variety of printmaking and mixed media processes and materials.

3D DESIGN/SCULPTURE
.5 Credit

Prerequisite: Art I
Fee: $20.00

This course provides a basic exploration of three-dimensional art. Projects will cover the basic sculptural techniques such as construction, carving, and modeling. This class will explore how the elements and principles of design apply to three-dimensional artwork.
COLORADO CONTENT STANDARDS FOR WORLD LANGUAGE:

Standard 1: Students communicate in a world language while demonstrating literacy in all four essential skills: Listening, Speaking, Reading, and Writing.

Standard 2: Students acquire and use knowledge of cultures while developing world language skills.

Introduction to World Languages:
World Language courses build students’ communication skills in the four key areas of language: listening, speaking, reading, and writing. Students will also explore the importance of cultural awareness and our connection to the global community.

Level One: GRADES 9 – 12

*The level one world language course is designed to focus on high frequency vocabulary and language structures through student interaction with the target language. Language will be learned through a variety of activities including: stories, video media & technology, cultural exploration, etc. Regular attendance and active participation are critical components for student success. The honors level is not designed for students with a background in Spanish. It is designed for students to learn at a more rapid rate and go deeper into the content of Spanish language and culture.

German 🟢🟢🟢🟢
Spanish 🟢🟢🟢🟢🟢
Honors Spanish 🟢🟢🟢🟢🟢
(Honors requires a minimum overall GPA of 3.0 or enrollment in AVID elective)

Level Two: GRADES 9 - 12

*Prerequisite: Successful completion of Level 1 with a C- average or better

The level two world language course is designed to increase students’ competence through continued interaction with the target language. The focus will be on more advanced language structures and expanded vocabulary in context. Level two students will demonstrate increasing spontaneity and flexibility in their ability to communicate in the target language in all four areas: speaking, listening, reading, and writing. Regular attendance and active participation are critical components for student success.

German 🟢🟢🟢🟢
Spanish 🟢🟢.AppendText(3)
Honors Spanish 🟢🟢🟢🟢
(Honors requires enrollment in Honors Spanish 1 or an A- 90% in the traditional Level 1 or enrollment in the AVID elective)

Level Three: GRADES 10 – 12

*(Native Speakers 9-12)*

*Prerequisite: Successful completion of Level 2

The level three world language course is designed to increase the students’ competence and confidence in the target language. The focus continues to be on increasingly advanced language structures and vocabulary building. Regular attendance and active participation are critical components for student success. Any student with a background in the target language or who is exposed to the language at home should enroll in this course.

German 🟢🟢🟢🟢
Spanish 🟢🟢🟢

IN ORDER TO ADVANCE TO THE NEXT LEVEL IN WORLD LANGUAGE, STUDENTS MUST EARN A MINIMUM OF A “C-” IN THE PREREQUISITE COURSE.

$15.00 MATERIAL fee FOR ALL WORLD LANGUAGE CLASSES. USED FOR THE PURCHASE OF INDIVIDUAL READING MATERIALS.
**Level Four:**

11 – 12

**GRADES**

(Native Speakers 9-12)

*Prerequisite: Successful completion of Level 3 with a C- or better*

The level four world language course is designed to further develop students' abilities and skills in the target language with increasing depth and breadth. All formal and informal class communications take place completely in German/Spanish. Students are able to listen to and read a variety of authentic materials and respond in the target language. Regular attendance and active participation are critical components for student success.

**German**

**Spanish**

**ADVANCED PLACEMENT SPANISH**

*Prerequisite – successful completion of Level 4 or better and/or teacher recommendation. This challenging course is designed for the above average Spanish speaker, reader and writer and is designed to prepare students for the national Advanced Placement Examination in Spanish Language. The advanced placement world language course is designed to further develop students' abilities and skills in the target language with increasing depth and breadth. All formal and informal class communications take place completely in Spanish. Students are able to converse and write about complex topics and sustain communication. Students are able to read a variety of authentic materials and to respond to them in the target language. Cultural awareness and sensitivity continues to develop as students focus on the cultural subtleties. Regular attendance and active participation are critical components for student success. Taking the AP Spanish Language exam is strongly encouraged.

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**ON-LINE COURSE RECOVERY**

We use a site-based online computer program that allows students to recover lost credit in core academic classes. This program uses a standards based model. Students work at their own pace. Assignments are completed in Student Learning Center Lab (Room 330) during the school day or after school. Coursework can also be accessed from any computer with internet access. Counselor approval is required to enroll in the class.

The Student Learning Center provides on-line class recovery for a fee to juniors and seniors. The following guidelines apply:

In order to access on-line classes through the Student Learning Center, a student must have completed the entire class experience (i.e., the student was in the course for the entire term) before s/he can begin the on-line recovery through the Student Learning Center. If a student withdraws from a class prior to the end of the given term, s/he must wait until the start of the next term to access the on-line recovery class. This ensures fidelity of both the traditional classroom as well as the on-line environments.

On-line courses through the Student Learning Center must be completed in a timely fashion. There are specific completion dates for each semester that students must adhere to in order to earn credit for the on-line classes. Students who do not complete their class by the deadline at the end of the term will earn a "WF" (Withdraw Fail) for the given on-line class, and the "WF" will be recorded on the transcript.
The Career Center is structured to meet the career training needs of secondary school students. Emphasis will be given to 10th through 12th grade students who request a career training alternative allowing them to gain job-entry level skills in combination with the educational program at their home school.


Academic instruction, which includes Key Train and Work Keys assessments, is an integral part of every vocational program. A goal of the Career Center is for every student to achieve a minimum Level 3 (Bronze), Work Keys Certificate of Competency in Reading for Information, Applied Math, and Locating Information. Advanced students may be eligible for college credits and/or industry certifications.

Opportunities at Career Center include:

<table>
<thead>
<tr>
<th>Computer Technologies</th>
<th>Construction Technology</th>
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</thead>
<tbody>
<tr>
<td>Culinary Arts Prep</td>
<td>Culinary Arts Restaurant</td>
</tr>
<tr>
<td>Early Childhood Professions</td>
<td>Ornamental Horticulture</td>
</tr>
<tr>
<td>Healthcare Occupations</td>
<td>Sport Vehicle Repair</td>
</tr>
<tr>
<td>Small Animal Care</td>
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</tbody>
</table>

The Career Center works closely with each home school because students are transported back and forth between the two campuses. The Career Center should be viewed as an extension of the high school campus by offering technical training to students in a lab setting.

**COMPUTER TECHNOLOGIES 42020**
Location: Career Center
Times: Mod 1, 2, and 3
3 Credits/year

In this class we will develop in students the computational practices of algorithm development, problem solving and programming within the context of problems that are relevant to the lives of today’s students. Students will also be introduced to topics such as interface design, limits of computers, and societal and ethical issues. This class also introduces computer repair and computer tune-up procedures. Students must have successfully completed Math 1 prior to enrollment in our Computer Technologies course. **1st year students will earn 2 elective credits and 1 computer tech math credit. Returning students will earn 3 elective credits per year.**

**CONSTRUCTION TECHNOLOGY 41035**
Location: Career Center
Times: Mod 1, 2, and 3
3 Credits/year

Learn to use power drills, hammers, and saws and how to build a house! Students will obtain many skills in the construction field, including the proper care and use of hand tools and power equipment, shop safety, types of building materials, related applied mathematics, measuring, blueprint reading, framing and roofing. Students complete projects ranging from doghouses to a 1,800 square foot, $200,000+ home. **1st and 2nd year students will earn 2 elective credits and 1 construction math credit. 3rd and 4th year students will earn 3 elective credits per year.**

**CULINARY ARTS – Prep 41045**
Location: Career Center
Times: Mod 1 ONLY
3 Credits/year
Do you like to cook? Do you like working with people? The Culinary Arts program gives students experience working with the public in a licensed, school-based restaurant. Students operate and maintain the kitchen and dining room. Prep students are involved in food preparation and baking for the restaurant (COYOTE CAFÉ) and catering. 1st year students will earn 2 elective credits and 1 culinary prep math credit. 2nd year students will earn 2 elective credits and 1 culinary prep science credit. 3rd year students will earn 3 elective credits.

CULINARY ARTS – Restaurant 41055
Location: Career Center
Times: Mod 3 ONLY

Mod 3 Culinary Restaurant Times: 12:30-2:20PM (Mondays) and 11:00AM-2:20PM (Tuesdays-Fridays)

Do you like to cook? Do you like working with people? The Culinary Arts program gives students experience working with the public in a licensed, school-based restaurant. Students operate and maintain the kitchen and dining room. Restaurant students do line cooking and serve customers, as well as catering. 1st year students will earn 3 elective credits and 1 culinary restaurant math credit. 2nd year students will earn 3 elective credits and 1 culinary restaurant science credit. 3rd year students will earn 3 elective credits.

EARLY CHILDHOOD PROFESSIONS 41005
Location: Career Center
Times: Mod 1, 2, and 3

Do you like working with young children? Then we have a fun class for you! This program combines direct experience of working with young children (3-4 years old) in a licensed preschool (CPP) with academic instruction in safety, child development, Infant/Toddler care, careers in early childhood, nutrition, snack preparation, first aid, health, and curriculum planning. Advanced students may be eligible for placement at a training work site in a preschool, childcare center or other related business in the community. 1st year students will earn 2.5 elective credits and .5 English elective credit. 2nd year students will earn 2.5 elective credits and .5 early childhood math credit. 3rd and 4th year students will earn 3 elective credits.

Ornamental Horticulture 41085 and 41065
Location:  Career Center
Times: 1st, 2nd and 3rd Mods

Do you want to learn about growing, caring for plants and running a small business? Do you want to sample the food you actually grow? This class offers an introduction to Horticulture and Greenhouse management. Our goal is that the student will develop entry level job skills in Floral, Greenhouse management, and landscape maintenance following the seasonal operations of our onsite greenhouse and floral shop. Hands on activities include growing herbs, vegetables, annual and perennial plants along with creating floral items, caring for the school campus plants, and running the shop! Students will explore business management, marketing and sales, customer service, basic safety, growing media and nutrition, applied plant science, propagation, greenhouse automation, community leadership and stewardship. 1st year students will earn 2 credits of electives and 1 Horticulture math credit. 2nd year students will earn 2 elective credits and 1 Horticulture science credit. 3rd and 4th year students will earn 3 elective credits.

Healthcare Occupations  42010
Location: Career Center
Times: Mod 1, and 2

Healthcare Occupations Pathway I offers students who are interested in pursuing a career in medicine an opportunity to investigate many different health career fields. The course will not only explore the anatomy and physiology of the human body and common diseases and disorders affecting each system, but also provides some of the core knowledge required to enter various fields of study. Students will be introduced to basic entry level skills that can be used in various health occupations including vital sign acquisition, medical terminology and entry level technical skills that will begin preparing them to enter those fields. Mentoring and shadowing experience in various medical fields will help expose the students to what is
available in the healthcare field. Becoming CPR/First Aid certified is our goal for each student. Students will earn 2 elective credits and 1 math credit in the 1st year of study.

**Healthcare Occupations 42011**

Location: Career Center  
3 Credits/year  
Times: Mod 3

Healthcare Occupations Pathway II offers students a chance to continue their journey and exploration of patient care skills and knowledge as well as honing of the procedures already practiced. Instruction in the second year will build upon the vocabulary, concepts and practical hands-on skills learned in Healthcare Occupations I. Nutrition, growth and human development, ethics, legal responsibilities, healthcare delivery systems and medical documentation will be explored. Job shadows and internships may be available to advanced students. As the medical field grows, there is a need for more support staff in hospitals, doctor’s offices, clinics, ancillary departments, rehab centers and related areas. This course will allow them to explore these fields more in depth. Students will be able to get hands-on experience performing the tasks common to each field within the healthcare industry. In addition to CPR/First Aid certification there is an opportunity for the student to take their PCP (Personal Care Provider) Certification. Students will earn 2 elective credits and 1 science credit in this 2nd year of study.

**SMALL ANIMAL CARE 41070**

Location: Career Center  
3 Credits/year  
Times: Mod 1 and 2, Second year students Mod 3

Do you like to work with animals? This class introduces students to skills necessary for small animal kennels, animal day care facilities, pet stores and veterinary clinics. The topics of study include small animal management, animal ethics and law, small animal assistant skills, veterinary terminology, animal anatomy and physiology, and career development. Students will participate in off campus field trips to veterinary clinics, specialized veterinary clinics, boarding kennels, humane societies, pet stores, animal breeders, feed stores, local groomers and other sites related to the class curriculum. 1st year students will earn 2 credits of electives and 1 small animal math credit. 2nd year students will earn 2 elective credits and 1 small animal science credit.

**SPORT VEHICLE REPAIR 41095**

Location: Career Center  
3 Credits/year

Do you want to learn how change oil and spark plugs, rebuild carburetors and repair all kinds of small vehicles and machinery? This program consist of three levels; Basic, Intermediate and Advanced + (Master Service Technician). The course will cover the fundamentals of all four cycle engine operation, hands-on training in performing complete overhauls of four stroke L-heads and OHV engines (Briggs & Stratton) including diagnostics and failure analysis. Students will also learn major repair of frame and suspension components and general repair of most small engines including lawn mowers, chain saws, water vehicles, motorcycles and ATV’s. All students will receive a Briggs and Stratton technician account and access to Briggs and Stratton Power Portal. Students who demonstrate proficiency in the above will be invited to join Career Center’s "Formula High School-Race to Learn". 1st year students will earn 2 credits of electives and 1 sport vehicle math credit. 2nd year students will earn 2 elective credits and 1 sport vehicle science credit. 3rd students will earn 2 elective credits and 1 additional sport vehicle math credit.
Technical Scholars Approvals for Career Center 2017-2018

Approval has been granted to the following Career Center instructors to offer college credit through the Technical Scholar program at WCCC. Advanced students must meet program requirements in order to earn college credit.

<table>
<thead>
<tr>
<th>Course Dept &amp; Number</th>
<th>Credits</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEC 101</td>
<td>3</td>
<td>Introduction to Early Childhood Education</td>
<td>Deborah Neill</td>
<td>Early Childhood Professions</td>
</tr>
<tr>
<td>EDEC 102</td>
<td>3</td>
<td>Introduction to Early Childhood Lab Techniques</td>
<td>Deborah Neill</td>
<td>Early Childhood Professions</td>
</tr>
<tr>
<td>EDEC 116</td>
<td>3</td>
<td>Infant/Toddler Theory and Practice</td>
<td>Deborah Neill</td>
<td>Early Childhood Professions</td>
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<tbody>
<tr>
<td>CONC 116</td>
<td>3</td>
<td>Building materials</td>
<td>Mike Wells</td>
<td>Construction</td>
</tr>
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<tbody>
<tr>
<td>CUAR 101</td>
<td>1</td>
<td>Food Safety &amp; Sanitation</td>
<td>Jackson Oviatt</td>
<td>Culinary Arts</td>
</tr>
</tbody>
</table>

Please note: Our academic strands are taught though out the courses. We award the credit in this fashion simply to help us keep track and have a standard method. If needed, we can distribute the academic credit at any time. For example, if the student needs science vs math in the first year we can make that adjustment. This in no way compromises the academic integrity. It does help us to know before the credit is awarded as we make the change in the gradebook. If it is after the fact we can adjust the transcript through course history.
# Career Center Courses and Academic Credits per Quarter 2017/2018

## Computer Technologies

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Technologies 1</td>
<td>0.5</td>
<td>Elective</td>
</tr>
<tr>
<td>Computer Technologies Math</td>
<td>0.25</td>
<td>Math</td>
</tr>
<tr>
<td>Computer Technologies 2</td>
<td>0.75</td>
<td>Elective</td>
</tr>
<tr>
<td>Computer Technologies 3</td>
<td>0.75</td>
<td>Elective</td>
</tr>
</tbody>
</table>

## Culinary Arts

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Culinary Prep 1</td>
<td>0.5</td>
<td>Elective</td>
</tr>
<tr>
<td>Culinary Prep Math</td>
<td>0.25</td>
<td>Math</td>
</tr>
<tr>
<td>Culinary Prep 2</td>
<td>0.5</td>
<td>Elective</td>
</tr>
<tr>
<td>Culinary Prep Science</td>
<td>0.25</td>
<td>Science</td>
</tr>
<tr>
<td>Culinary Prep 3</td>
<td>0.75</td>
<td>Elective</td>
</tr>
<tr>
<td>Culinary Restaurant 1</td>
<td>0.75</td>
<td>Elective</td>
</tr>
<tr>
<td>Culinary Restaurant Math</td>
<td>0.25</td>
<td>Math</td>
</tr>
<tr>
<td>Culinary Restaurant 2</td>
<td>0.75</td>
<td>Elective</td>
</tr>
<tr>
<td>Culinary Restaurant Science</td>
<td>0.25</td>
<td>Science</td>
</tr>
<tr>
<td>Culinary Restaurant 3</td>
<td>1.0</td>
<td>Elective</td>
</tr>
</tbody>
</table>

## Healthcare Occupations

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Healthcare Occupations 1</td>
<td>0.5</td>
<td>Elective</td>
</tr>
<tr>
<td>Healthcare Occupations 1 Math</td>
<td>0.25</td>
<td>Math</td>
</tr>
<tr>
<td>Healthcare Occupations 2</td>
<td>0.5</td>
<td>Elective</td>
</tr>
<tr>
<td>Healthcare Occupations 2 Science</td>
<td>0.25</td>
<td>Science</td>
</tr>
<tr>
<td>Course</td>
<td>Credits</td>
<td>Type</td>
</tr>
<tr>
<td>----------------------</td>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>Construction Technology 1</td>
<td>0.5</td>
<td>Elective</td>
</tr>
<tr>
<td>Construction Technology Math</td>
<td>0.25</td>
<td>Math</td>
</tr>
<tr>
<td>Construction Technology 2</td>
<td>0.5</td>
<td>Elective</td>
</tr>
<tr>
<td>Construction Technology Math</td>
<td>0.25</td>
<td>Math</td>
</tr>
<tr>
<td>Construction Technology 3</td>
<td>0.75</td>
<td>Elective</td>
</tr>
<tr>
<td>Small Animal Care 1</td>
<td>0.5</td>
<td>Elective</td>
</tr>
<tr>
<td>Small Animal Care Math</td>
<td>0.25</td>
<td>Math</td>
</tr>
<tr>
<td>Small Animal Care 2</td>
<td>0.5</td>
<td>Elective</td>
</tr>
<tr>
<td>Small Animal Care Science</td>
<td>0.25</td>
<td>Science</td>
</tr>
<tr>
<td>Small Animal Care 3</td>
<td>0.75</td>
<td>Elective</td>
</tr>
<tr>
<td>Sport Vehicle Repair 1</td>
<td>0.5</td>
<td>Elective</td>
</tr>
<tr>
<td>Sport Vehicle Repair Math</td>
<td>0.25</td>
<td>Math</td>
</tr>
<tr>
<td>Sport Vehicle Repair 2</td>
<td>0.5</td>
<td>Elective</td>
</tr>
<tr>
<td>Sport Vehicle Repair Science</td>
<td>0.25</td>
<td>Science</td>
</tr>
<tr>
<td>Sport Vehicle Repair 3</td>
<td>0.5</td>
<td>Elective</td>
</tr>
<tr>
<td>Ornamental Horticulture 1</td>
<td>0.5</td>
<td>Elective</td>
</tr>
<tr>
<td>Ornamental Horticulture Math</td>
<td>0.25</td>
<td>Math</td>
</tr>
<tr>
<td>Ornamental Horticulture 2</td>
<td>0.5</td>
<td>Elective</td>
</tr>
<tr>
<td>Ornamental Horticulture Science</td>
<td>0.25</td>
<td>Science</td>
</tr>
<tr>
<td>Ornamental Horticulture 3</td>
<td>0.75</td>
<td>Elective</td>
</tr>
<tr>
<td>Course</td>
<td>Credits</td>
<td>Category</td>
</tr>
<tr>
<td>---------------------------------------</td>
<td>---------</td>
<td>------------</td>
</tr>
<tr>
<td>Sport Vehicle Repair Math</td>
<td>0.25</td>
<td>Math</td>
</tr>
</tbody>
</table>

**Early Child Professions**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Early Child Prof</td>
<td>.625</td>
<td>Elective</td>
</tr>
<tr>
<td>Early Child Lang</td>
<td>.125</td>
<td>Eng.Elect</td>
</tr>
<tr>
<td>Early Child Prof 2</td>
<td>.625</td>
<td>Elective</td>
</tr>
<tr>
<td>Early Child Math</td>
<td>.125</td>
<td>Math</td>
</tr>
<tr>
<td>Early Child Prof 3</td>
<td>0.75</td>
<td>Elective</td>
</tr>
</tbody>
</table>

**Please note:** Our academic strands are taught throughout the courses. We award the credit in this fashion simply to help us keep track and have a standard method. If needed, we can distribute the academic credit at any time. For example, if the student needs science vs math in the first year we can make that adjustment. This in no way compromises the academic integrity. It does help us to know before the credit is awarded as we make the change in the gradebook. If it is after the fact, we will ask the building principal for permission to adjust the transcript though course history.

**Important Information:** This is the credits we have established at the present time. (We are double checking now as it appears there may be some discrepancy.) The curriculum team is helping us update our crosswalks. Computer Technologies and Healthcare Occupations are in the process of updates now. Our other programs will be updated next year.
POST SECONDARY OPPORTUNITIES

The District is pleased to offer our high school student access to advanced learning opportunities through our partnership with Colorado Mesa University (CMU) and Western Colorado Community College (WCCC). The recent legislation, House Bill 1319, facilitated changes in our college opportunities for high school students. In an effort to increase exposure to college courses that are in alignment with the student’s future career and academic plan (the ICAP), the District is offering the following program to students who meet the set criteria.

Concurrent Enrollment- This program allows qualified 9th-12th grade students to enroll in college courses while attending high school.

The following conditions must be in place in order for a student to enroll concurrently in college courses at Colorado Mesa University and/or WCCC:

4. **College courses must align with the student’s Individual Career and Academic Plan (ICAP)** The ICAP outlines the student’s career goals and aligns his/her high school coursework with future plans. (An example is a student interested in being a Biologist might be eligible to take a college-level Biology course.) Approval to take a college-level course is given by the student’s counselor and designated administrator.

5. **The student must exhaust the course offerings at his/her home high school in the given academic area and any commensurate offerings through the Career Center and/or WCCC’s high school programs and have approval from high school counselor/administrator.** Factors considered in this process include alignment with the student’s ICAP, the student’s course schedule and class availability at the high school. For instance, a student interested in Psychology must take AP Psychology at his/her high school in order to take advantage of college offerings in this area.

6. **The student must meet the following academic criteria:**
   - 3.0 or higher cumulative GPA
   - SAT/ACT sub-scores of:
     - 470/17 Reading Verbal or above - **ALL** students interested in taking a class at Colorado Mesa University must meet this requirement
     - 500/19 or above in Math (for those seeking Math and/or Science courses)
     - 470 Verbal/18 English or above
   - Students may use commensurate ACCUPLACER assessment scores in lieu of the SAT/ACT scores. The ACCUPLACER is given through CMU’s Testing Center.

***It is the student’s responsibility to pay for SAT/ACT or ACCUPLACER testing

If the above criteria has been met, then the student may be eligible to take college level courses from CMU/WCCC. Students may enroll in up to four classes per year. Many of the science classes have a mandatory lab that is a separate class, but must be
taken during the same term as the science lecture course. In this case, the lecture and lab class would be counted as “one” class.

Students meeting the above criteria may choose from courses selected from the General Education Courses for Baccalaureate, Associate and Certificate degree programs. This list is very comprehensive, and many disciplines are represented. Courses (unless otherwise noted) in the list are classified as Guaranteed Transfer (GT) courses according to the Colorado Department of Higher Education (CDHE). GT courses are guaranteed to transfer among any of Colorado’s public colleges and universities.

Students and families are encouraged to plan carefully and to keep in contact with the student’s counselor, as timelines do exist.

**CMU CALCULUS GUIDELINES**

Link to the CMU Math placement guidelines to assess what is needed for Calculus I placement.

http://www.coloradomesa.edu/mathstat/documents/MathematicsplacementprocedureACTSAT.html

To determine Calc II placement the department does want to see the student’s AP scores. CMU’s AP equivalency chart shows that students who score a 3 on the Calc BC test will place into Calc. II; those who score a 4 will place into Calc III.

http://www.coloradomesa.edu/registrar/documents/APhandout.pdf

**HIGH SCHOOL SCHOLARS**

In a joint venture with Colorado Mesa University and District #51, eligible students (9th-12th) can receive Colorado Mesa University (CMU) and high school credit for taking these courses. The courses are taught in the high schools by high school teachers who have met the criteria established by CMU. The student is responsible for class fees and books, but the District will pay the tuition up front. Should the student not earn a final grade of “C” or above, the student will be responsible for reimbursing the District the cost of tuition. The courses offered will be in the areas of math, English, science, and social studies. The courses offered in each building will vary based on student needs, staffing and building schedules.
TECHNICAL SCHOLARS

This program provides qualified students the opportunity to take WCCC career & technical education courses in their high school or at WCCC and earn college credits. The courses are available to students attending WCCC as well those enrolled in specific courses at participating high schools. The courses are offered for both high school and college credit.

Students may enroll for college credit and earn credit by meeting specific course competencies outlined in each program. The school district pays the tuition for no more than two courses per semester.

Technical Scholars students are responsible for applying for the College Opportunity Fund (COF) stipend to offset their tuition. Students may apply through their counselor or WCCC instructor.

ASCENT PROGRAM- This program allows students to delay official high school graduation for one year, and attend a participating college/university during their "5th year" of high school. ASCENT provides the opportunity for a student to delay their official high school graduation for one year in order to enroll at Colorado Mesa University/WCCC or a participating institution in a degree or certificate program with the tuition paid for by the school district. The credit hours for which the student is eligible to enroll is contingent upon the funding the District receives from the State.

Students must meet the following criteria in order to be eligible for the ASCENT program:

7. Meet all high school graduation requirements
8. Complete 12 college credits by the end of their senior year
9. Earn a cumulative GPA in the college courses of 2.5 or better
10. File a FAFSA (Free Application for Federal Student Aid) form
11. The college enrollment is part of the student’s ICAP (Individual Career and Academic Plan). The ICAP outlines the student’s career goals and aligns his/her high school coursework with future plans.
12. Agrees to delay high school graduation for one year

If the above criteria are met, the student may be eligible for the ASCENT program.

This program is funded through the State of Colorado, and funding is not guaranteed. The District will fund tuition at either part-time or full-time rates. It is vital that students and families understand that the ASCENT program is contingent upon state funds, and these funds are allotted each summer. Students are strongly advised to apply for admission, scholarships, and financial aid to the college(s) of their choice.

***For further information, contact your high school counselor***
CMU Classes offered at Central High School

Students must meet academic requirements in order to enroll in CMU college courses at Central!

- Students must have a 3.0 or higher GPA at the time the CMU Early Scholars Paperwork is due.
- Students must meet high school course work prerequisites.
- Students must have qualifying test scores in ACT, SAT, or ACCUPLACER.

STUDENTS NEED TO VISIT WITH THEIR COUNSELOR FOR INFORMATION AND TIMELINES FOR THE CMU COURSES!

<table>
<thead>
<tr>
<th>College Course Subject Area</th>
<th>Test Subject</th>
<th>ACT</th>
<th>SAT</th>
<th>ACCUPLACER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required for all college courses</td>
<td>Reading</td>
<td>17</td>
<td>430</td>
<td>80</td>
</tr>
<tr>
<td>Math course</td>
<td>Math</td>
<td>19</td>
<td>460</td>
<td>85 (Elem. Algebra)</td>
</tr>
<tr>
<td>English course</td>
<td>Writing</td>
<td>18</td>
<td>440</td>
<td>95</td>
</tr>
</tbody>
</table>

CMU MATH 091 INTERMEDIATE ALGEBRA
.5 Credit
GRADE 12

Prerequisite: ACT score below 19 on the Math portion of the ACT, ACCUPLACER score 61-84

Further study in topics of algebra. Includes properties of real and complex numbers; laws of exponents and radicals; factoring polynomials; solving linear and quadratic equations and inequalities; rational expressions and complex fractions; introduction to functions and relations; applications.

Students earn credit through CMU as well as high school credit.

COLLEGE ALGEBRA (MATH 113) .75 Credit
GRADE 12

Students earn 4.0 credits through Colorado Mesa University for this college-level math course taught by Colorado Mesa University faculty and CHS teachers at CHS. This is a great way to earn college credit while still in high school! The description from the Colorado Mesa University Course Guide is as follows... "A college-level treatment of algebra. Topics include algebraic properties of the integers, rationals, real and complex numbers; techniques for manipulation of expressions; techniques for solving linear, non-linear, absolute value equations, and inequalities; techniques for solving systems of equations; the Cartesian plane, relations and functions; properties and graphs of polynomial, rational, exponential, logarithmic and inverse functions; conic sections." Students must meet GPA (3.0 cumulative GPA or better) and ACT score (19 or above on Math sub-section or an equivalent ACCUPLACER score.) in order to take the course. Students earn credit through CMU as well as high school credit.
High school students who want to enroll in a technical program at WCCC may do so through their high school counselor. Students are required to complete a WCCC application (available in high school counseling offices or at WCCC) and arrange for an interview with the WCCC program instructor by contacting WCCC student services at 255-2670. The student, or their high school counselor, will be notified of acceptance into WCCC program. Priority for program enrollment is given to current or continuing students with satisfactory program performance and to seniors and juniors. All programs are year-long.
### High School CTE Credit Matrix – 2017-18

<table>
<thead>
<tr>
<th>WCC Course</th>
<th>High School Course &amp; Credits – Fall Semester</th>
<th>High School Course &amp; Credits – Spring Semester</th>
<th>Technical Scholars* - College Course &amp; Credits**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Networking Technology Year 1</td>
<td>Computer Networking Technology I: Math for IT</td>
<td>1.0 Elective / 3.0 Math</td>
<td>TCC 103 Introduction to PC (3 cr)</td>
</tr>
<tr>
<td>Networking Technology Year 2</td>
<td>Computer Networking Technology II</td>
<td>1.0 Elective / 3.0 Math</td>
<td>TCC 103 Introduction to PC (3 cr)</td>
</tr>
<tr>
<td>Culinary Arts I</td>
<td>Culinary Arts I</td>
<td>1.5 Elective</td>
<td>TEC 182Cisco (4 cr)</td>
</tr>
<tr>
<td>Culinary Arts II</td>
<td>Culinary Arts II</td>
<td>1.5 Elective</td>
<td>TEC 251 Leadership (3 cr)</td>
</tr>
<tr>
<td>Digital Design Year 1</td>
<td>Digital Design I</td>
<td>0.75 Elective</td>
<td>TEC 251 Leadership (3 cr)</td>
</tr>
<tr>
<td>Digital Design Year 2</td>
<td>Digital Design II</td>
<td>1.5 Elective</td>
<td>TEC 251 Leadership (3 cr)</td>
</tr>
<tr>
<td>Electrical Technology I</td>
<td>Electrical Technology I</td>
<td>1.5 Elective</td>
<td>ELCE 104 Construction Safety (1 cr)</td>
</tr>
<tr>
<td>Electrical Technology II</td>
<td>Electrical Technology II</td>
<td>1.5 Elective</td>
<td>ELCE 104 Construction Safety (1 cr)</td>
</tr>
<tr>
<td>Machining Technology Year 1</td>
<td>Machining I</td>
<td>1.0 Elective / 3.0 Math</td>
<td>MATR 105 Welding I &amp; II (3 cr)</td>
</tr>
<tr>
<td>Machining Technology Year 2</td>
<td>Machining II</td>
<td>1.0 Elective / 3.0 Math</td>
<td>MATR 120 Machining Technology I (4 cr)</td>
</tr>
</tbody>
</table>

*Contact the program instructor or Student Services for more information on the Technical Scholars option and how to sign up for college credit.

**Technical Scholars courses tuition is $55 per credit and will be paid by the school district.

Student must re-take if course grade is below 75. The course equivalency matrix details the placement in the Technical Scholars program.
<table>
<thead>
<tr>
<th>WCCC Course</th>
<th>High School Course &amp; Credit – Fall Semester</th>
<th>High School Course &amp; Credit – Spring Semester</th>
<th>Technical Scholars* – College Course &amp; Credit™</th>
<th>Course Scholarships</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Networking Technology Year 1</td>
<td>Computer Networking Technology I MATCH 911</td>
<td>Computer Networking Technology I MATCH 911</td>
<td>TEC 175 Introduction to PC (3 cr)</td>
<td>TEC 180 Internship (3 cr)</td>
</tr>
<tr>
<td>Culinary Arts I</td>
<td>Culinary Arts I MATCH 326</td>
<td>Culinary Arts I MATCH 326</td>
<td>TEC 180 Child Care (1 cr)</td>
<td>TEC 311 Leadership (2 cr)</td>
</tr>
<tr>
<td>Culinary Arts II</td>
<td>Culinary Arts II MATCH 326</td>
<td>Culinary Arts II MATCH 326</td>
<td>TEC 180 Child Care (1 cr)</td>
<td>TEC 311 Leadership (2 cr)</td>
</tr>
<tr>
<td>Digital Design Year 1</td>
<td>Digital Design I MATCH 911</td>
<td>Digital Design I MATCH 911</td>
<td>TEC 180 Child Care (1 cr)</td>
<td>TEC 311 Leadership (2 cr)</td>
</tr>
<tr>
<td>Digital Design Year 2</td>
<td>Digital Design I MATCH 911</td>
<td>Digital Design II MATCH 911</td>
<td>TEC 180 Child Care (1 cr)</td>
<td>TEC 311 Leadership (2 cr)</td>
</tr>
<tr>
<td>Electrical Technology I</td>
<td>Electrical Technology I MATCH 911</td>
<td>Electrical Technology I MATCH 911</td>
<td>TEC 180 Child Care (1 cr)</td>
<td>TEC 311 Leadership (2 cr)</td>
</tr>
<tr>
<td>Electrical Technology II</td>
<td>Electrical Technology I MATCH 911</td>
<td>Electrical Technology II MATCH 911</td>
<td>TEC 180 Child Care (1 cr)</td>
<td>TEC 311 Leadership (2 cr)</td>
</tr>
<tr>
<td>Machining Technology Year 1</td>
<td>Machining I MATCH 911</td>
<td>Machining I MATCH 911</td>
<td>TEC 180 Child Care (1 cr)</td>
<td>TEC 311 Leadership (2 cr)</td>
</tr>
<tr>
<td>Machining Technology Year 2</td>
<td>Machining I MATCH 911</td>
<td>Machining I MATCH 911</td>
<td>TEC 180 Child Care (1 cr)</td>
<td>TEC 311 Leadership (2 cr)</td>
</tr>
</tbody>
</table>

*Contact the program instructor or Student Services for more information on the Technical Scholars option and how to sign up for college credit.
**Technical Scholars course tuition is $120 per credit hour and includes TEC 180 Child Care (1 cr) as an example course.
Student must repay district if course grade is below C. No registrations will be accepted after February 15. The course equivalency matrix details the possible course substitutions.
WCCC COURSES

**Computer Networking**

Join the exciting, rapidly changing field of Information Technology and the internationally accredited Cisco Certified Networking Academy. Students learn the fundamentals of PC technology including computer hardware and software skills needed to meet the growing demand for entry-level Information and Communication Technology (ICT) professionals. Students are introduced to advanced concepts in computer networking systems from small and home office networking to more complex networking models.

**Culinary Arts**

The Culinary Arts program trains people interested in developing professional food preparation and management skills. Food safety, introduction to culinary arts as well as beginning cooking courses are part of the curriculum of culinary arts. Students earn college credit and can further their culinary career at WCCC. College Credit may be earned.

**Digital Design**

Digital Design introduces students to the fields of visual imaging and storytelling. You will learn the skills needed to realize your creative ideas through script writing, drawing and storyboarding, pre-visualization and graphic design, 3D modeling and layout, video production and special effects. Students also learn team building and leadership skills as well as problem solving and critical thinking needed to start a journey into the world of making creative content.

**Electrical Technology**

The curriculum incorporates courses in building materials, estimating, planning and scheduling, installations, codes, safety, tools, calculations, and print reading. Classroom and lab work are designed to meet competency-based standards set by industry.

**MACHINING**

This course is designed to meet competency-based standards set by industry; it prepares students for entry level placement in a wide range of manufacturing jobs. Students learn blueprint reading, geometric dimensioning and tolerancing, general machining, CNC machining, process planning, inspection process planning, maintenance, computer aided drafting/computer aided manufacturing (CAD/CAM) and technical math. Classroom instruction is integrated with related lab work on project-based activities using tools and equipment found in industry.

**MARKETING EDUCATION**

Students learn marketing, business management, and finance in 22 different areas including: sports and entertainment; restaurant management; advertising and multimedia; fashion and merchandising; accounting and financial applications; and hospitality and hotel management. Students have the opportunity to work with real businesses to improve their bottom line and prepare actual advertising campaigns that companies can use.

**MEDICAL PREPARATION**

This program prepares students for a career in healthcare. Students learn medical terminology, human growth and development, ethics, first aid, CPR, basic anatomy and physiology, infection control and safety, and the effects of wellness and illness across the lifespan.

In the spring semester students can choose clinical studies including Certified Nursing Assistant, Veterinary Assistant or Emergency Medical Responder. Clinical experiences and job shadowing in the community requires students to provide their own transportation to clinical sites.

**Medical Preparation II** – Students who complete Med Prep I are eligible for Med Prep II. The emphasis is on further developing competencies and skills in the field of healthcare. The skills include lab assisting and knowledge of pharmacy, as well as professionalism and ethics. This class is rigorous and has a heavy clinical component.
STEM Discovery
See chart for credits
Science, Technology, Engineering and Math (STEM) are important elements in our countries economic sectors. From energy production to engineering, and infrastructure to manufacturing, STEM careers are in demand. Science - Students explore the sciences of chemistry used in industrial and commercial processing and the applied physics utilized in advanced manufacturing of various commodities. Technology - Utilizing computer-based tools for an integrated approach students learn modeling, simulation, design, operation, control and management, and well as, computer numerical controlled machining and print reading. Engineering - Elements include electronic instrumentation, remote sensing, computer aided design/computer aided manufacturing CAD/CAM used in architectural, mechanical and civil engineering and design. Mathematics is presented in an applied model with relevance to the real-world application in the fields of study of technology careers.

TRANSPORTATION SERVICES TECHNOLOGY □
See chart for credits
Students learn the fundamentals of electronics, starters, ignition and charging systems, and cooling and heating systems. Explore related math concepts, use of technical manuals, basic management skills, communication skills and leadership. This program stresses safety practices. Students learn proper use and care of hand tools and equipment used in the automotive service industry.

WELDING □
See chart for credits
This program offers the opportunity to become proficient at Stick welding, MIG welding, TIG welding, Flux-cored arc welding, Oxyacetylene cutting and welding, and Plasma Arc Cutting. Through classroom lecture and related lab work, students study welding, cutting, layout, fabrication and technical math. A good attitude and quality workmanship is stressed.