Academic Planning Guide

2025-2026

Mountain Vista High School

10585 Mountain Vista Ridge
Highlands Ranch, Colorado 80126
303-387-1500

Together, we achieve the extraordinary!

Updated 4/4//2025

VISION STATEMENT

Mountain Vista High School aspires to support the needs of all our students and prepare them to be successful in meeting the challenges of their lives.

MISSION STATEMENT

**As a school community that cares for and respects each individual,
we work together to create an academically challenging environment,
to support learning and high achievement,
and to promote productive and responsible citizenship.**

CARE * RESPECT * CHALLENGE * SUPPORT * ACHIEVE

CORE VALUES

As staff members of Mountain Vista High School we believe that:

- **Relationships are based on respect, tolerance, and understanding.**
- **Diversity is an asset.**
- **Education is meaningful and relevant.**
- **The academic, emotional, and social needs of our students guide our work.**
- **Everyone is a leader and a learner.**
- **Innovation, creativity, and risk taking are encouraged.**
- **Every student has opportunities to be involved in the school community.**
- **It is important to be involved in the community at large.**
- **A spirit of teamwork, optimism, and pride are important elements of success.**
- **All stakeholders model the core values.**

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Principal's Letter

Dear MVHS Students and Parents,

Each year, Mountain Vista High School looks to improve student opportunities by adding new courses and expanding pathways. Our hope is to have comprehensive programming which meets the needs of all students. However, a strong curriculum and diverse offerings will mean very little unless Mountain Vista students individually seek a passion for learning and challenge themselves by taking classes that develop their knowledge, skills, interests and abilities. A solid academic foundation established through engaging, rigorous and relevant instruction will provide sustainable learning opportunities for all MVHS students.

Mountain Vista students have a full range of options when developing their individual academic pathway. This includes comprehensive offerings, an extensive list of Honors and Advanced Placement classes, concurrent enrollment courses, certification and off-campus programs. We believe that the benefits of a rigorous approach will have a tremendous impact on college and career technology bound students. In addition, our unique pathways allow any student considering going directly into the workforce or military a variety of options. We also feel that every student should challenge themselves by taking at least one Advanced Placement or college level course during their time at Vista. Every student (9th -12th Grades) needs to remember that class selections each year will determine future opportunities. Thoughtful planning, collaboration with MVHS staff, purposeful course selections, solid effort, great attendance, involvement, and a focus on taking care of yourself and taking care of others will open the door to any number of options during high school and beyond.

It is important to note that students can register for as many courses as they would like. At this time there is not a grade level limit as long as students have five full-time classes to a maximum of seven classes if desired. All freshmen and sophomores should have 7 classes. This provides schedule flexibility during the student's junior and senior years.

This Academic Planning Guide is intended to help you plan your high school academic experience. You will find specific information that will prove useful in planning for the 2025-2026 school year. There is also a great deal of general information that will prove useful as you move through your high school career. Students should review this information with their parents and select courses that will prepare them for their post-high school goals. Students should also work with teachers and counselors to assure that they register for courses that match their skill level, fulfill graduation requirements, meet state competencies and prepare them for the future. We strongly suggest that students become very familiar with Naviance. Naviance provides families with everything needed to organize and prepare for high school and beyond. You can also use the Four-Year Planning Chart. In addition to Naviance, this worksheet can assist you in managing your academic options during your remaining years at Mountain Vista High School.

All students and parents should keep the following in mind:
Douglas County School District high school graduation requirements.

1. **Colorado's 2021 and Beyond Graduation Competency Requirements.**
2. **A student's personal goals and how they relate to specific career and college entrance requirements.**
3. **Course descriptions and the ACT Career Connection information. This will allow you to be sure that the courses you choose fit your academic needs, interests and abilities. Note that many courses require prerequisite courses or teacher approval before registration.**
4. **CCHE requirements for entrance into Colorado's 4-year university system.**

We look forward to working with you. Again, students, I challenge you to challenge yourself academically and to be thoughtful about your future. As you plan, take advantage of opportunities and commit to making the most of your Mountain Vista High School experience!

High School Policies

Availability of Classes: While every effort will be made to provide the classes a student has selected during registration, some classes may not be available due to student enrollment numbers, staffing, and/or budget.

Course Load: Douglas County School District has an open campus policy. Mountain Vista High School requires seven periods for all freshmen and a closed campus for lunch and suggests seven periods for sophomores. Juniors and seniors are allowed flexible scheduling with all students in attendance for five class periods.

Drop/Add Policy: Students will not be penalized if a course is dropped within the first ten (10) days of a semester. All schedule changes must be approved by the student's counselor. If a student chooses to drop a course after ten (10) school days, a grade of "WF" is given and the F is factored into a student's GPA.

Course Credit Deadline: No credit can be earned if a student enters a class after the tenth day of the semester, unless transferring from a similar class.

Early Graduation: Students planning to complete their high school course work in less than eight semesters should develop an early graduation plan with their counselor and parents. An early graduation form is available in the Counseling Office and must be approved by the principal by May 1st. A student who plans to graduate early must complete all requirements set by the State Board of Education and the Douglas County Board of Education.

Enrollment: Students enrolling in Mountain Vista High School who have withdrawn from a previous school must enroll three weeks prior to the end of a semester in order to receive credit from MVHS for the semester. Students who have not been in attendance at a school during a semester may not receive credit at MVHS if they enroll 3 weeks after the semester begins. If a student is over 17, alternatives for earning credit during the semester will be presented..

Fees:

Student Activity Card - (optional)	$50.00
Athletics- Participation per sport (may vary)	$200.00 (additional costs may be applied depending on sport)
Instructional Book Fee –District Book Fee	$40.00
Star Lab - District Fee	$80.00/per semester (no waiver possible)
Club Fee - Membership	Plus actual cost per activity participation
Graduation Fee - Seniors only	$30.00
Graduation Off-Site Fee - Seniors only	$60.00

Field Trips -Students will be charged a transportation fee and admission fee for all field trips.

Course Fees –As per Board of Education policy, where additional charges are required for specific courses, the costs will be noted in the course description. The fee may vary with each student and each project to cover individual needs.

Grade Replacement: Students may elect to replace a grade if they take the same class the next year or take a teacher taught course in summer school the summer immediately following. Edgenuity courses will not replace grades. The fee cannot be waived.

Graduation: To participate in the graduation ceremony, the student must present evidence of meeting the diploma requirements (including correspondence and out-of-school course work) and must have paid all outstanding fees 48 hours prior to the graduation ceremony, along with submitting 20 hours of community service. A student must also wear the designated cap and gown to the graduation ceremony. Please refer to pages 8-10 for more information.

Incomplete Grades: A student will be allowed to make up an incomplete grade within a quarter after the end of the semester. If the grade is not made up, the incomplete will become an "F" on the transcript.

Schedule Correction: The following guidelines will be used to determine whether or not a schedule change will be allowed. A schedule correction will be granted by the Counseling Department if:

- You are scheduled for the wrong level of a class or need a level change.
- You have a "see counselor" in your schedule.
- You are missing a required class and/or do not have enough classes.

Definitions

Advanced Placement (AP): The Advanced Placement program is a national academic program sponsored by the College Board. Students are required to take the national examination to be considered for Advanced Placement credit at the college level. All Advanced Placement courses have weighted grades.

Credit (high school unit of credit): A measure of credit earned in a course. One unit of credit equals two successfully completed semesters of work. One-half credit (.05) equals one semester of successfully completed work.

GPA: The student's semester grade value is divided by the number of classes taken to create their grade point average. Cumulative GPA is the average of the semester(s) together.

- Regular courses award the student on a traditional four point scale. A=4, B=3, C=2, D=1, F=0
- Honors courses in English, Math, Science, and Social Studies, as well as World Language Level III and above will be weighted on a 4.5 scale. A=4.5, B=3.5, C=2.5, D=1, F=0
- Advanced Placement and Approved Concurrent Enrollment courses will be weighted on a five point scale. A=5, B=4, C=3, D=1, F=0

A student's earned grade point average (GPA) is based on letter grades earned for courses taken in the ninth through twelfth grades. The GPA is calculated at the end of each semester and made cumulative for reporting to the student, employers, and colleges.

STANDARDIZED TESTING INFORMATION

****PSAT8/9**: The PSAT9 gives students the opportunity to receive early feedback on their knowledge in the areas that matter most for college and career readiness. The current test is digital and consists of 2 sections: (1) the Reading and Writing section and (2) the Math section, and takes 2 hours and 14 minutes to complete with standard time. Most of the questions are multiple choice, though some of the math questions ask you to type in the answer rather than select it.

PSAT/NMSQT: The Preliminary Scholastic Achievement Test (PSAT) is a preliminary SAT test used as the qualifying test for the National Merit Scholarship. The test may be taken in the sophomore year, but only juniors can qualify for National Merit Scholarships. The test is not a college admissions test. Test scores range from 320 - 1520 with a 760 on each section. A perfect score is 1520.

****PSAT10**: The PSAT10 measures readiness for college, access scholarships, and practice for the SAT. The test consists of 2 sections: (1) the Reading and Writing section and (2) the Math section, and takes 2 hours and 14 minutes to complete with standard time. Most of the questions are multiple choice, though some of the math questions ask you to type in the answer rather than select it.

****SAT :** The SAT is one of the two college entrance exams that is accepted or required at many four-year colleges and universities. This digital test is composed of two sections (1) Reading and Writing and (2) Math, with the highest possible score for each section being 800. Each section is divided into 2 equal length modules, and there is a 10-minute break between the Reading and Writing section and the Math section. The first module of each section contains a broad mix of easy, medium, and hard questions. Based on how students perform on the first module, the second module of questions will either be more difficult or less difficult.

ACT: The ACT is the other test accepted as part of college admission. The test has four subtests – English, Math, Reading, and Science, with an optional writing section. The average score is called the composite; a perfect score is 36 and the average score is 19 – 21.

****CMAS:** Science test (11^{1h} grade only) given in the spring of each year. The results of these tests are used by the state as a part of the school "report card" that was mandated in Senate Bill 00-186.

****Required by Colorado unless a parent opts their student out. Test scores are no longer posted on transcripts.**

MVHS Counseling Office and Services

Counseling services are available to all Mountain Vista High School students. Each student is assigned a counselor by alphabet who will stay with them throughout their four years. You can find your counselor by clicking here. The Mountain Vista High School Counseling Department strives to facilitate student growth in academic, career, and personal social development. We are committed to servicing and supporting students, families and staff through listening, problem-solving, informing, guiding and nurturing, for the purpose of inspiring all toward extraordinary efforts.

Students are encouraged to contact their counselor regarding assistance with educational, career, or personal problems. Students who need to see a counselor will need to make an appointment online. Once the appointment is made, the student will receive an email which they will use as their pass to show to their teacher. Please click here for more information about our counseling department.

Additional services are available through the school social worker and psychologist who also serve Mountain Vista High School.

GRADUATION REQUIREMENTS 2021 & BEYOND

The Douglas County School District is committed to ensuring that every student is college and career ready. Beginning with the **Class of 2021**, students must meet four requirements in order to graduate and receive a high school diploma.

1 Create an **Academic Plan**

Students will create and complete an Individual Career and Academic Plan (ICAP) and/or Individualized Education Program (IEP) that meets the District's graduation requirements.

Board Policy IKF – Graduation Requirements

3 Perform **Community Service**

Students must document a minimum of twenty hours community service while enrolled as a high school student.

Board Policy IKFB – Community Service

2 Earn **24 Credits**

Students must satisfy all of the following requirements:

a. 16 Credits in the following **CORE Curricular Areas** as follows

- Language Arts 4.0
- Mathematics 3.0*
- Science 3.0
- Social Studies 3.0 **
- Practical Arts 1.0
- Fine Arts 1.0
- Physical Education 1.0

**Must include a minimum of Algebra 1 as one of the 3.0 credits;*

***Must include 1.0 credit of US or World History and 0.5 credits of Civics/US Government;*

b. 8 Credits in Electives

Board Policy IKF – Graduation Requirements

4 Demonstrate competence in **Reading, Writing, and Communicating & Math**

Finally, students must demonstrate college and career readiness in both Mathematics and Reading, Writing, and Communicating by meeting or exceeding the required level of readiness in one of the following methods*:

	Reading, Writing, and Communicating	Math
Next Generation ACCUPLACER	241 on Reading or 236 on Writing	235 Advanced Algebra & Functions (AAF) 255 on Arithmetic (AR) or 230 on Quantitative Reasoning, Algebra, and Statistics (QAS)
Classic ACCUPLACER	*62 on Reading Comprehension or 70 on Sentence Skills	61 on Elementary Algebra
ACT	18	19
ACT WorkKeys	Bronze+	Bronze+
Advanced Placement	2	2
(ASVAB) Armed Services Vocational Aptitude Battery	31 on the AFQT	31 on the AFQT
Concurrent Enrollment	Passing Grade	Passing Grade
International Baccalaureate	4	4
SAT	470	480
District Capstone	Passing Score	Passing Score
Industry Certificate	Individualized	Individualized
Performance Based Assessment	State Criteria	State Criteria

Superintendent File: IKF-R-3 – Graduation Competencies



GRADUATION REQUIREMENTS:

To graduate and receive a diploma from a high school in the Douglas County School District, a student must:

1. **Earn a minimum of 24 credits.** One credit (1.0) is equal to one course lasting the full year. One-half credit (0.5) is equal to one course lasting one-half year.
2. **Document a minimum of 20 hours of Community Service.**
3. **Demonstrate competence in English and Math** via an approved method outlined on the Graduation Competencies chart.

The 24 credits required for graduation must be met in the following way according to Superintendent File IKF-R-1:

Subject	Credits	Class Breakdown
Language Arts	4.0	Four English credits
Mathematics	3.0	Three math credits, one of which must be Algebra I or higher
Science	3.0	Three science credits
Social Studies	3.0	Three social studies credits. The required MVHS credits include, World History - 0.5, World Geography - 0.5, US Government - 0.5, Economics - 0.5, US History - 1.0
Fine Arts	1.0	Art, Music, Theatre, Levels III or higher of a World Language
Practical Arts	1.0	Business, Construction, Engineering and Computer Science, Family and Consumer Sciences, Levels III or higher of a World Language
Physical Education	1.0	Traditional PE classes, Dance, Athletic Training, CTE Food Teen Choices, Intro to Mindfulness
Elective	8.0	When above requirements are met, additional coursework will be assigned as elective credit
Minimum Total Credits	**24.0**	

Note: To earn course credit, students must demonstrate proficiency on the Content Standards embedded in the course. Documentation that these standards have been achieved will be through teacher judgment based on District assessments, end-of-course tests, or other measurements as well as meeting other stipulated course expectations. Students who do not achieve these standards will be enrolled in courses or programs as prescribed by the school principal and faculty.

HIGHER EDUCATION ADMISSIONS REQUIREMENTS

Students planning to attend a four-year college or university in Colorado should complete the following classes in order to fulfill the Higher Education Admission Recommendations (HEAR). HEAR is one factor of many that public four-year institutions consider in the admission decision process. Visit the CDHE Admission webpage(opens in new window) to learn about all admission review factors. Private colleges and universities set their own admissions standards, so you should contact those institutions directly for information regarding their enrollment policies. Public two-year colleges have open enrollment policies, meaning that students applying to these schools do not need to meet the following admissions requirements.

Meeting HEAR does not guarantee admission to a four-year public institution. Additionally, colleges, universities and certain academic programs may have additional admission factors.

The successful completion (grade "C" or better) of a college-level course while in high school will satisfy HEAR for the relevant subject area. For example, if a high school student earns a "C" or higher in ENG 1021: English Composition, the English area in HEAR will be considered as satisfied. Note: satisfying HEAR does NOT mean satsifying your high school's graduation requirements - your school district may have additional requirements.

ACADEMIC AREA	HS GRADUATES 2010+
ENGLISH	4 years
MATHEMATICS (Algebra I level and higher)	4 years
NATURAL/PHYSICAL SCIENCES (2 units must be lab-based)	3 years
SOCIAL SCIENCES (at least 1 unit of U.S. or world history)	3 years
WORLD LANGUAGE	1 units of same language
ACADEMIC ELECTIVES*	2 years

* Acceptable Academic Electives include additional courses in English, mathematics, natural/physical sciences and social sciences, foreign languages, art, music, journalism, drama, computer science, honors, Advanced Placement, and International Baccalaureate courses. Approved career and technical education courses with content comparable to courses meeting Colorado's Model Content Standards and industry specific/CTE standards are counted as academic electives beyond the minimum years listed above.

The CCHE has further described the types of courses that meet their requirements by indicating that they need to be "sufficiently challenging to be college-preparatory" and that they need to fit "in a logical sequence of courses leading to higher and more rigorous coursework."

Mountain Vista STEM Program

Our goal is to create as many STEM opportunities for students to take as they desire. The foundation of the program is a solid and rigorous Math and Science background. As you can see in the sample certificate program and course flow chart, there are many potential pathways depending on what a student wants to focus on for their electives.

STEM Graduation Certificate

	S	T	E	M
STEM Certificate	**4 credits of Science** -Must include Physics or AP Physics 1, 2, or C	**Complete 2 or more Sem. courses** Engineering Multimedia/Video Computer Prog/Sci. Graph. Design/Photo. English-/MV Media MVTV Business Internships	**Complete two or more Sem. courses** Engineering Computer Prog/Sci/CAD. Multimedia/Tech. Construction English-MV Media Interior Design Theater Tech Graphic Design Internships	**4 credits of Math** ACC College Algebra, AP Statistics, or Calc AB
Honors STEM Certificate requires a 5th credit in Science or Math. See the levels listed below.				
Honors STEM Certificate	**Required:** 1 AP course and 1 Honors or 2 AP courses -Must include Physics or AP Physics 1, 2, or C	**Complete 2 or more Sem. courses** Engineering Multimedia/Video Computer Prog/Sci. Graph. Design/Photo. English-/MV Media MVTV Business Internships	**Complete 2 or more Sem. courses** Engineering Computer Prog/Sci/CAD. Construction Multimedia/Tech. English-MV Media Interior Design Theater Tech Graphic Design Internships	**Required:** 1 or more of the following: Calc AB, BC, or Calc III

Additional Expectations and Opportunities:

- Demonstrated involvement in a club or extracurricular activity that enhances communication, leadership, critical thinking, and problem solving. Ex. TSA, DECA, Speech and Debate, Key Club, Mock Trial, or other MVHS opportunity.
- For a complete list of eligible classes, please refer to the appropriate content area in the catalog and look for **STEM** and T, E, or T/E next to it. These letters are an indication of whether the course counts toward the Technology, Engineering, (or both) component(s) of the STEM Certificate.
- For additional information or for questions, please contact your counselor.

Revised 11/01/24

Mountain Vista STEM Offerings
Sample Course Flow Chart

At Mountain Vista, we are a fully comprehensive high school. Therefore, we want to encourage students to take full advantage of our many offerings. Our STEM Pathway offers rigor and flexibility based on student interests. Our goal is to create as many STEM opportunities for students to take as they desire. Here is a sample of what a 4-year STEM plan might look like for an individual who wants to take advantage of the program.

	9th Grade	10th Grade	11th Grade	12th Grade
Science	**Biology** *-or-* **Honors Biology**	**Chemistry** *or* **H. Chem** *-or-* **Honors Chem & AP Physics 1**	**Physics** *-or-* **AP course** (Biology, Chemistry, Environmental Science, Physics 1, Physics 2, Physics C)	**AP course** (Biology, Chemistry, Environmental Science, Physics 1, Physics 2, Physics C)
Technology	Principles of Engineering & Tech. *-or-* Comp. Sci. Foundations	Any level 2 Engineering *-or-* Any level 2 Comp. Sci.	ACC/CAD/Capstone *-or-* AP Computer Science or Game Design/Capstone	
Engineering	Principles of Eng./Tech	Any level 2 Engineering	ACC CAD/Capstone	
Math	Geometry (Honors Rec.) or higher - (Prereq. – Algebra I completed at high level in MS) *or* Algebra 1 – Must continue achieving at a high level through ACC/AP Statistics	Algebra II (Honors Rec.) or higher	Trig/Pre-Calc (Honors Rec.) or higher	AP Calculus

SAMPLE

For a complete list of eligible classes, please refer to the appropriate content area in the catalog and look for the **STEM** and T, E, or TE next to it. These letters are an indication of whether the course counts toward the Technology, Engineering, (or both) component(s) of the STEM Certificate.
Note: There are a WIDE RANGE OF PATHWAYS possible based on student interests and skills. This is only an example. Please contact your counselor with further questions.

THE ADVANCED PLACEMENT PROGRAM

Advanced Placement (AP) is a program of college-level courses and exams that gives high school students the opportunity to earn credit for college while still in high school. AP classes will be the most rigorous courses offered at MVHS and will receive a weighted grade. Students and parents should visit CollegeBoard.org for more information and free online AP resources such as learning tips, practice exams, and lists of colleges that grant credit for AP courses.

Advantages of Taking AP Course Work

- AP courses and exams represent the beginning of the journey through college-level academic challenges.
- Collegiate institutions recognize that applicants with AP experience are much better prepared for the demands of college courses.
- Tuition savings are realized for students whose AP performance earns them college credit.
- Earning AP credit allows students to move into upper-level courses in their field of interest by exempting them from required introductory courses. In addition, students have the opportunity of completing their degree early.
- More than 1,400 introductory collegiate institutions award a full year's credit (Sophomore Standing) to students presenting satisfactory grades on a specific number of AP exams.
- Gaining credit or advanced standing in college can give you time for other interests: time abroad, extra classes, independent studies, internships.

AP Scholar Awards

Each year, the College Board recognizes high school students who have demonstrated college-level achievement through multiple AP courses and exams. Some of the awards and requirements are as follows:

- **AP Scholar**- Granted to students who receive grades of 3 or higher on three or more AP Exams on full- year courses (or the equivalent).
- **AP Scholar with Honor-** Granted to students who receive an average grade of at least 3.25 on all AP Exams taken and grades of 3 or higher on four or more of these exams on full-year courses (or the equivalent).
- **AP Scholar- with Distinction-** Granted to students who receive an average grade of at least 3.5 on all AP Exams taken and grades of 3 or higher on five or more of these exams on full-year courses (or the equivalent).

AP Courses Currently Offered At Mountain Vista

AP English Language/Composition
AP English Literature/Composition
AP Human Geography
AP United States History
AP European History
AP World History
AP Psychology
AP Macro and Micro Economics
AP US Government
AP Comparative Government
AP Calculus AB
AP Calculus BC
AP Statistics
AP Biology
AP Chemistry
AP Physics 1 and 2 (Algebra Based)
AP Physics C
AP Environmental Science
AP French Language
AP Spanish Language
AP Music Theory
AP 2-D and 3-D Art
AP Computer Science A
AP Computer Science Principles
AP African American Studies

Concurrent Enrollment

Douglas County School District offers qualified students the opportunity to enroll in Concurrent Enrollment (CE) courses. CE provides high school students with the opportunity to enroll in postsecondary (or college-level) courses and earn credit in high school and college, at no cost to them for tuition (excluding course fees and materials). Depending on availability and in accordance with District policy, students may apply to take concurrent enrollment classes in their high school or on a college campus. Concurrent Enrollment also includes postsecondary Career and Technical Education (CTE) courses, enabling students to earn credit that can be applied towards an industry certification.

CE courses are taught at each traditional high school by Douglas County School District teachers who have been approved as adjunct professors by an accredited institution of high learning. A list of CE courses is available in each high school's Course Guide.

**Concurrent Enrollment college credit is subject to course and teacher approval and completion of all required registration steps by the majority of the class within the designated semester deadline. Courses may be subject to cancellation for Concurrent Enrollment college credit due to unforeseen changes.*

Students interested in applying for CE courses are required to meet with their high school Counselor to discuss CE course information and requirements, and to complete the District CE Application process.

ACC Concurrent Enrollment Registration Process

To begin the registration process, please visit: Arapahoe Community College - Getting Started.
Students must complete all enrollment steps:

- Register for the course in Infinite Campus
- Meet all prerequisites.
- Apply to ACC - An "S" number will be assigned to each student upon acceptance which will be required in order to register for class.
- Apply for Colorado College Opportunity Fund (COF) for in-state institutions.

*Please note that students must receive a C or better in the course in order to receive college credit. It is the responsibility of the student to request college transcripts directly from ACC.

**For more information regarding Concurrent Enrollment at Arapahoe Community College, please visit their website at https://www.arapahoe.edu/academics-programs/concurrent-enrollment*

TREP - Teacher Recruitment Education and Preparation

The TREP program creates the opportunity for qualified students in an educator career pathway to concurrently enroll in postsecondary courses and earn college credit at no tuition costs to them or their families, for up to two years after the 12 grade year - must take one course in the Educational pathway.

ASCENT - Accelerating Students through Concurrent Enrollment

ASCENT is a fifth-year high school program (fall and spring semesters) that covers tuition costs at a participating college the year following 12th grade. Eligible and approved ASCENT students are able to attend a participating college (trade school, community college or approved four-year university) and DCSD will cover the tuition costs.

Mountain Vista High School Concurrent Enrollment Courses 2025-2026

This is for students taking classes AT MVHS during the school day

Course	Grade Level	Prerequisite
CIS 1018 - Intro/PC Applications	All Grades Eligible	None
MGD 1011 - Photoshop	All Grades Eligible	None
MGD 1012 - Illustrator	All Grades Eligible	None
BUS 1015 - Intro to Business	10-12	For 10th grade, must have instructor approval
BUS 1016 - Personal Finance	11-12	None
BUS 2016 - Legal Environment of Business	11-12	None
FIN 1010 - Intro To Finance	11-12	Any Business/Marketing class
MAR 1055 - Social Media for Business	10-12	For 10th grade, CTE Business and Marketing Essentials. No prereq for 11th or 12th grades.
MAR 1060 - Customer Service	10-12	For 10th grade, CTE Business and Marketing Essentials. No prereq for 11th or 12th grades.
MAR 2016 - Principles of Marketing	10-12	CTE Business and Marketing Essentials
MAT 2430 - Calc III	11-12	AP Calculus BC exam score of 4 or 5 and 3.0 GPA and teacher recommendation
MAT 2560 - Differential Equations	11-12	AP Calculus BC exam score of 4 or 5 and 3.0 GPA and teacher recommendation
MAT 1240 - Math for Liberal Arts	12	Successful completion of high school Algebra II with B or better and 3.0+ cumulative GPA. ACT Math score ≥ 19 OR SAT Math score ≥ 500 OR Accuplacer score of 240+ in Quantitative Reasoning, Alg, & Stats, OR Accuplacer score of 245+ in Advanced Algebra and Functions
MAT 1340 - College Algebra	12	Successful completion of high school Algebra II with B or better and 3.0+ cumulative GPA. ACT Math score ≥ 23 OR SAT Math score ≥ 560 OR Accuplacer score of 245 or above in Advanced Algebra and Functions
MAT 1420 - College Trigonometry	12	Successful completion of ACC College Algebra with C or better. ACT Math score ≥ 25 OR SAT math score ≥ 620 OR Accuplacer score of 280 or above in Advance Algebra and Functions.
MAT 1260 - Intro to Statistics	12	Successful completion of high school Algebra II with B or better and 3.0+ cumulative GPA. ACT Math score ≥ 19 OR SAT Math score ≥ 500 OR Accuplacer score of 240+ in Quantitative Reasoning, Alg, & Stats, OR Accuplacer score of 245+ in Advanced Algebra and Functions
ENG 1021 - English Composition I	12	Cumulative 3.0+ GPA OR SAT Evidenced Reading and Writing 470+ OR ACT English 18+, OR Next Gen Accuplacer Writing 246+; If GPA 2.6-2.99, a B in second semester English III or AP Language & Composition will qualify. In addition, completion of application by deadline date and teacher approval.
ENG 1022 - English Composition II	12	Prerequisite: Cumulative 3.0+ GPA AND C or better in ENG 1021 OR 3 or better on AP Language exam OR SAT Evidenced Reading and Writing 620+ OR ACT English 26+. In addition, completion of application by deadline date and teacher approval.
LIT 1015 - Intro to Literature	12	Cumulative 3.0+ GPA OR SAT Evidenced Reading and Writing 470+ OR ACT English 18+, OR Next Gen Accuplacer Writing 246+; If GPA 2.6-2.99, a B in second semester English III or AP Language & Composition will qualify. In addition, completion of application by deadline date and teacher approval.
LIT 2046 - Literature of Women	12	Cumulative 3.0+ GPA OR SAT Evidenced Reading and Writing 470+ OR ACT English 18+, OR Next Gen Accuplacer Writing 246+; If GPA 2.6-2.99, a B in second semester English III or AP Language & Composition will qualify. In addition, completion of application by deadline date and teacher approval.

Course	*Grade Level*	*Prerequisite*
CAD 2455 - Solidworks	*10-12*	*CTE Principles of Engineering and Technology with a "C" or better*
CAD 2456 - Advance Solidworks	*10-12*	*CAD 2455 with a "C" or better*
CAD 2660 - 3D Printing/Additive	*11-12*	*CTE Principles of Engineering and Technology and CAD 2455 with a "C" or better.*
HIS 1210 - US History to Reconstruction	*11-12*	*Cumulative 3.0+ GPA OR SAT Evidenced Reading and Writing 470+ OR ACT English 18+, OR Next Gen Accuplacer Writing 246+; If GPA 2.6-2.99, a B in second semester English III or AP Language & Composition will qualify. In addition, completion of application by deadline date and teacher approval.*
HIS 1220 - US History Civil War	*11-12*	*Cumulative 3.0+ GPA OR SAT Evidenced Reading and Writing 470+ OR ACT English 18+, OR Next Gen Accuplacer Writing 246+; If GPA 2.6-2.99, a B in second semester English III or AP Language & Composition will qualify. In addition, completion of application by deadline date and teacher approval.*
HIS 1320 - Western Civilization	*11-12*	*Cumulative 3.0+ GPA OR SAT Evidenced Reading and Writing 470+ OR ACT English 18+, OR Next Gen Accuplacer Writing 246+; If GPA 2.6-2.99, a B in second semester English III or AP Language & Composition will qualify. In addition, completion of application by deadline date and teacher approval.*
ECE 1011 - Intro. to ECE	*11-12*	*CTE Child Development recommended*
ECE 1111 - Infant/Toddler Dev	*11-12*	*ECE 1011 with a "C" or better*
ASL 1121 - American Sign Language I	*11-12*	*Successful completion (C or above) of ASL Level II or teacher recommendation*
ASL 1122 - American Sign Language II	*11-12*	*Successful completion (C or above) of ASL Level III/ASL 1121 or teacher recommendation*

As a high school student enrolling in an ACC (Arapahoe Community College) course, you are choosing to take a college-level course. Please note that students must receive a C or better in the course in order to receive college credit. It is the responsibility of the student to request college transcripts directly from ACC. To register for these courses, students must complete an **ACC student application** and fulfill **all pre-requisite requirements**.

Career & Technical Education

Douglas County School District offers a variety of Career & Technical Education (CTE) programming. Regional CTE programming is offered to ensure all high school students have access to quality educational programs emphasizing core academic content, Postsecondary & Workforce Readiness (PWR) competencies, technical skills, and seamless transition to further education or employment. CTE programming better prepares all students, including special populations, to meet the challenges of the workforce, economic development, and emerging occupations.

State approved CTE programs are taught by Douglas County School District teachers who have received State CTE credentialing in their respective discipline and program. A list of CTE courses available at MVHS is available in this Course Guide.

Students interested in regional CTE programs are required to meet with their high school Counselor to discuss CTE course information, requirements and availability, and to complete the District CTE Application process.

**Students provide their own transportation to CTE programs not offered within their home high school.*

Colorado Department of Education (CDE) CTE Overview Colorado Career Cluster Model

Mountain Vista CTE Programing 2025-2026

Business and Marketing
CTE Business & Marketing Essentials, yr
CTE Intro to Business, sem
CTE Entrepreneurship, sem
CTE Event Marketing/Communications, sem
CTE SBE Retail, sem
ACC BUS 1015 - Intro to Business, sem
ACC BUS 1016 - Personal Finance, sem
ACC BUS 2016 - Legal Environment of Business, sem
ACC MAR 1055 - Social Media for Business, sem
ACC MAR 1060 - Customer Service, sem
ACC MAR 2016 - Principles of Marketing, sem
ACC FIN 1010 - Intro to Finance, sem
CTE BAM WBL (Internship), sem

Computer Science
ACC CIS 1018 Intro/PC Applications, sem
CTE Intro to Multimedia, sem
CTE Web Design Foundations, sem
CTE Game Design, sem
CTE Computer Science Foundations, sem
AP Computer Science Principles, sem
AP Computer Science A, yr
CTE Cybersecurity I, yr
CTE Cybersecurity II, yr
CTE IT WBL (Internship), sem

Education
CTE Educ Child and Adol Development, sem
CTE Teacher Cadet 1A and 1B, yr
ACC EDU 2211 - Intro to Education, *taken concurrently w/ Teacher Cadet 1B*
ACC EDU 2088 - Practicum II, *taken concurrently with Teacher Cadet 1B*
ACC ECE 1011 - Intro to Childhood Education, sem
ACC ECE 1111 - Infant and Toddler Development, sem
CTE Educ FCS WBL (Internship), sem

Engineering
CTE Principles of Engineering and Technology, sem (required)
CTE Intro to Engineering Design, sem
CTE Applied Engineering, sem
CTE Robotics and Automated Systems, sem
ACC CAD 2455 - Solidworks, sem
ACC CAD 2456 - Advance Solidworks, sem
ACC CAD 2660 - 3D Printing, sem
CTE Engineering and Tech Capstone, sem
CTE Engineering and Tech WBL (Internship), sem

Fashion Design
CTE Fashion Design I, sem
CTE Fashion Design II, sem
CTE Design Seminar, sem
CTE Design FCS WBL (Internship), sem

Filmmaking
CTE Filmmaking I, yr
CTE Filmmaking II, yr
CTE Filmmaking III, yr
Multimedia II - Video Production, sem
CTE Filmmaking WBL (Internship), sem

Foods
CTE Baking Pastry
CTE Catering I
CTE Catering II

Graphic Design
ACC MGD 1011 - Photoshop, sem
ACC MGD 1012 - Illustrator, sem
CTE Graphic Design and Illustration III, sem
CTE Graphic Design and Illustration IV, sem
CTE Design Multimedia WBL (Internship), sem

Health Science
CTE Gen Intro to Health Sciences, sem
CTE Medical Forensics, sem
CTE Anatomy and Physiology A and B, yr
CTE Health Science WBL (Internship) sem

Interior Design
CTE Interior Design Residential (Interior Design I), sem
CTE Interior Design Commercial (Interior Design II), sem
CTE Design Seminar, sem
CTE Design FCS WBL (Internship), sem

Journalism
CTE Reporting (Journalism), sem
CTE Editing, sem
CTE Print Media I (Yearbook), yr
CTE Print Media II, yr
CTE Design Multimedia Capstone, yr
CTE Design Multimedia WBL (Internship), sem

Theatre
CTE Production and Managerial Arts (Theatre 1), sem
CTE Performance and Communication (Theatre II), sem
CTE Stage Production Manager (Theatre III), yr
Theatre IV Director, yr
CTE Production and Managerial Arts Capstone (Theatre Ensemble), yr
CTE Technical Theatre A (Tech Theatre I), sem
CTE Technical Theatre B (Tech Theatre II), sem
CTE Production and Managerial Arts WBL (Internship), sem

WELCOME TO LEGACY CAMPUS



Part-time enrollment for 11th & 12th grade DCSD students.

Students attend classes at their high school for the majority of their day, and come to Legacy twice a week for specialty pathway courses for college credit and they can earn industry certifications!

Sign up for the DCSD Legacy Campus newsletter

Visit the DCSD Legacy Campus website for more information

DCSD Legacy Campus Course Description Guide

Our mission is to cultivate a Career & Technical Education environment where post-secondary and industry partnerships provide relevant learning opportunities for high school students and the Douglas County community in order to ensure a competitive advantage and workforce readiness.

Transportation is available

Tours available!
Sign up for a tour of the DCSD Legacy Campus
&
follow us on social media for the latest updates!

Applications for the 2025-26 school year will open January 10, 2025.
Check the DCSD Legacy Campus website for pathway applications.



CONNECTING PASSION TO PATHWAY

Student-run Marketplace open to the community Mon-Thur 7:00AM - 1:30PM. Come join us for coffee or lunch!

Our beautiful facility is also available to host your special events, trainings, confernces, etc. Contact our events team today! 720-387-7907.

303-387-7800
www.LegacyCampus.org
10035 S. Peoria St.
(in the former Wildlife Experience)

Please click here for the 2025-2026 Legacy Course Guide.

Course Descriptions



Sample Course Interpretation

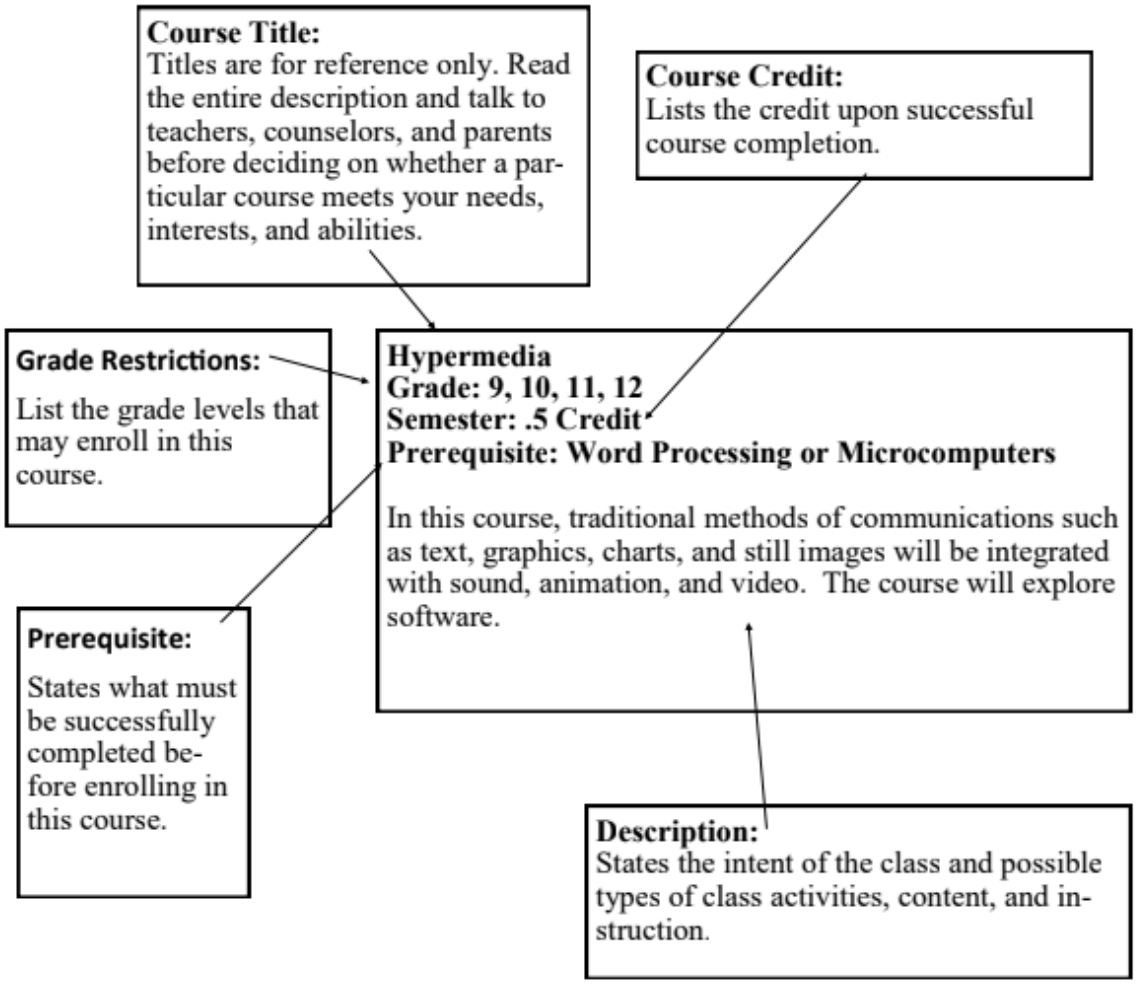
Careful planning is essential to a successful and rewarding experience at Mountain Vista High School. Parents, teachers, counselors, and administrators should all be involved in assisting you to develop a comprehensive plan allowing for variety, specific interest, and special preparation for the future. Although there are a variety of resource people to assist you, the final responsibility for your educational experience rests with you and your willingness to study and become a part of the school community.

This guide has been designed as a planning tool for the coming year. A close look at department overviews, course descriptions, graduation requirements, and prerequisites will give you important information for the planning process.

Below is a sample course found throughout this guide. Carefully read the comments provided.

.5 credit = 1 course for 18 weeks = 1 semester

1 credit = 1 course for 36 weeks = 2 semesters



Art

Department Chair: Delainey Bernier

Art Experience I
Course #: 15400
Semester: .5 Fine Art Credit
Grades: 9-12
Fees: $40.00
This course is for students of all ability levels who are interested in a variety of art experiences and media. For example; drawing and painting, sculpture, ceramics, and mixed-media.

Ceramics I
Course #: 15425
Semester: .5 Fine Art Credit
Grades: 9-12
Fees: $40.00
Ceramics I is an introduction to design, glazes, basic hand building and wheel throwing skills. This class will work exclusively in clay and glazes to create functional pieces of pottery.

Ceramics II
Course #: 15430
Semester: .5 Fine Art Credit
Grades: 9-12
Prerequisite: "B" or better in Ceramics I or teacher approval.
Fees: $40.00
This course is a continuation of Ceramics I with an emphasis on skill, technique, form, and design. This class creates more advanced projects such as teapots and vases.

Ceramics III
Course #: 15435
Semester: .5 Fine Art Credit
Grades: 10-12
Prerequisite: "B" or better in Ceramics II or teacher approval.
Fees: $40.00
This course is a continuation of Ceramics II with an emphasis on advanced technique, form and design. This class creates more advanced projects such as fountains and advanced glazing techniques such as air brush.

Ceramics IV
Course #: 15440
Semester: .5 Fine Art Credit
Grades: 10-12
Prerequisite: "B" or better in all lower levels and teacher approval.
Fees: 40.00
Students will work on a variety of advanced skills and projects with additional time for portfolio building.

***AP 3-D Art and Design (Ceramics)**
Course #: 15479S1 / 15479S2
Year: 1.0 Fine Art Credit (1.0 weighted)
Grade: 11-12
Prerequisites: "B" or better in Level I, II, & III of your content area. Required portfolio review and interview.
Fees: $40.00 per semester and AP fees
Students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions. Students may choose to submit any or all of the AP Portfolio Exams.

Drawing & Painting I
Course #: 15500
Semester: .5 Fine Art Credit
Grades: 9-12
Fees: $40.00
This course focuses on basic drawing and painting techniques. Students will work with watercolors, drawing pencils and acrylic paints. Focusing on the elements of art and principles of design this course is designed to help you develop basic skills. It will give you a broad experience in color and composition. Still life, perspective, and imaginative works of art will be rendered using various styles. You will leave this class with greater confidence in your art skills and abilities.

Drawing & Painting II
Course #: 15505
Semester: .5 Fine Art Credit
Grades: 9-12
Prerequisite: "B" or better in Drawing & Painting I or teacher approval.
Fees: $40.00
Students will focus on a more intense involvement in drawing and painting media, techniques, and artistic styles. Build upon Drawing and Painting I skills. More individual expression and artistic awareness will be encouraged. This course is a good choice if you are serious about improving your techniques, confidence and portfolio-building skills.

Drawing & Painting III
Course #: 15510
Semester: .5 Fine Art Credit
Grades: 10-12
Prerequisite: "B" or better in Drawing & Painting II or teacher approval.
Fees: $40.00
This course allows the serious art student to further develop skills, ideas, personal philosophy, and creativity in drawing and painting. Students will build a portfolio based on a variety of techniques. Development of personal style will be emphasized.

Drawing & Painting IV
Course #: 15515
Semester: .5 Fine Art Credit
Grades: 10-12

Prerequisite: "B" or better in all lower levels and teacher approval.
Fees: $40.00
Students will work on individual advanced projects with an emphasis on portfolio development. Students will build a portfolio of work based on a personal theme.

***AP Drawing**
Course #: 15476S1 / 15476S2
Year: 1.0 Fine Art Credit (1.0 weighted)
Grade: 11-12
Prerequisites: "B" or better in Level I, II, & III of your content area. Required portfolio review and interview.
Fees: $40.00 per semester and AP fees
Students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions. Students may choose to submit any or all of the AP Portfolio Exams.

ACC-MGD 1011 Photoshop STEM (T)
Course #: 69302
MVHS Semester: .5 Fine Art Credit (1.0 weighted)
ACC Credit: 3 credits
Grades: 9-12
Prerequisite: Students must have an ACC "S" number (Students enrolled in this course must be concurrently enrolled in ACC.)
Fees: $25.00
(Students enrolled in this course must be concurrently enrolled in ACC.)
Concentrates on the high-end capabilities of a faster photo-editing software as an illustration, design and photo retouching tool. Students explore a wide range of selection and manipulation techniques that can be applied to photos, graphics and videos. Pathway: Arts/Design/Technology. Credit: 3 ACC; AAS in Graphic Design and Technology.

ACC-MGD 1012 Illustrator STEM (T)
Course #: 69303
MVHS Semester: .5 Fine Art Credit (1.0 weighted)
ACC Credit: 3 credits
Grades: 9-12
Prerequisite: Students must have an ACC "S" number (Students enrolled in this course must be concurrently enrolled in ACC.)
Fees: $25.00
Acquaints students with the processes of a vector drawing program on the computer. Students learn how to use the tools to create digital artwork that can be used in Web design, print media and digital screen design.

CTE Graphic Design and Illustration I (Graphic Design III/Digital Media) STEM (T)
Course #: 7903101S1
Semester: .5 Fine Art Credit
Grades: 10-12
Prerequisite: Grade of "C" or better in MGD 1011 and MGD 1012
Fees: $40.00

This course is designed for the serious art student, possibly considering design as a career. Students will develop and design professional graphic art projects while further developing computer competence. Course Content: Advanced design, sequential art, and identify systems using Adobe* Suites.

CTE Graphic Design and Illustration II (Graphic Design IV) STEM (T)
Course #: 7903201S1
Semester: .5 Fine Art Credit
Grades: 10-12
Prerequisite: A "C" or higher in MGD 1011, 1012, **and** CTE Design and Illustration I.
Fees: $40.00
Students will work on individual advanced projects with an emphasis on portfolio development.

***AP 2-D Art and Design (Graphic Design) STEM (T)**
Course #: 15477S1 / 15477S2
Year: 1.0 Fine Art Credit (1.0 weighted)
Grade: 11-12
Prerequisites: Instructor Approval
Fees: $40.00 per semester and AP fees
Students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions. Students may choose to submit any or all of the AP Portfolio Exams.

CTE Design Multimedia WBL (Internship) STEM (T)
Course #: 79031888S1 / 79031888S2
Semester: .5 Fine Art Credit
Grades: 11-12
Prerequisites: Current or past enrollment in CTE course in the Multimedia Design and Multimedia Arts, application, teacher approval, and reliable transportation.
Students build on prior knowledge and skills in the program of study to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education.
**A CTE internship allows students to explore a career of interest prior to leaving high school and entering a college or certification program related to the career. The experience provides an opportunity for students to learn from and network with professionals in the field. Students will evaluate their strengths and weaknesses and acquire information to make wise future academic and employment decisions. The internship must be unpaid and a minimum of 40 hours must be completed to receive credit.*

Jewelry I STEM - (E)
Course #: 15525
Semester: .5 Fine Art credit
Grades: 9-12
Fees: $40.00
This course is an introduction to metalsmithing, using both traditional and modern techniques, students will gain an understanding of historical and real-world applications. This hands-on class will expose students to jewelry making techniques such as metal fabrication, soldering, riveting, finishing, and texturing of surfaces through a variety of

projects. Class critiques and written artist statements help further develop students' critical observations and understanding of the elements and principles of art and design.

Jewelry II STEM - (E)
Course #: 15530
Semester: .5 Fine Art credit
Grades: 9-12
Prerequisite: "B" or better in Jewelry I or teacher approval.
Fees: $40.00
Jewelry II is a further exploration of metalsmithing and jewelry making techniques. Students continue to develop a variety of skills based on cultural and personal themes. They will learn new techniques such as bezel setting, glass fusing, resin, patinas, multiple seam soldering, and forming metal. Class critiques and written artist statements further develop students' knowledge of jewelry design and wearable art.

Jewelry III STEM (E)
Course #: 15535
Semester: .5 Fine Art credit
Grades: 10-12
Prerequisite: "B" or better in Jewelry II or teacher approval.
Fees: $40.00
This course requires the serious student to develop an in-depth exploration of jewelry design and wearable art. Students will further their skills and understanding of advanced metalsmithing and jewelry making techniques. New techniques include prong setting, mold making, cuttlefish casting, and chemical etching. Personal research, small group discussions, class critiques, and written artist statements further develop students' critical observations and understanding of conceptual design development.

Jewelry IV STEM (E)
Course #: 15540
Semester: .5 Fine Art credit
Grades: 10-12
Prerequisite: "B" or better in Jewelry III or teacher approval.
Fees: $40.00
Students will work on individually driven advanced projects to develop a body of work. Students will further develop their metalsmithing and jewelry making skills by learning new techniques such as millefiori, enamel, electroforming, rolling mill, and lost wax casting. Projects completed in this course will guide students' portfolio development for higher level visual arts preparation.

***AP 3-D Art and Design (Jewelry) STEM (E)**
Course #: 15480S1 / 15480S2
Year: 1.0 Fine Art Credit (1.0 weighted)
Grade: 11-12
Prerequisites: "B" or better in Level I, II, & III of your content area. Required portfolio review and interview.
Fees: $40.00 per semester and AP fees
Students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice,

experimentation, and revision, guided by questions. Students may choose to submit any or all of the AP Portfolio Exams.

Photography I - STEM (T)
Course #:15575
Semester: .5 Fine Art credit
Grades: 9-12
Fees: $40.00
This course is an introduction to photography as a fine art. Students use the camera as a tool to increase their observational skills. Students will learn DSLR modes and settings, darkroom techniques are introduced with photogram's and Holga Cameras, as well as learning to edit photographs with Adobe Photoshop®.

Photography II - STEM (T)
Course #: 15580
Semester: .5 Fine Art credit
Grades: 9-12
Prerequisite: "B" or better in Photography I or teacher approval.
Fees: $40.00
Photography II is a further exploration of photographic elements with an emphasis on developing individual creativity and visual communication skills. Students will learn more darkroom techniques including film development, printing skills, and alternative processes along with further exploration of digital manipulation through Adobe Photoshop®. Regular class critiques and written assignments help further develop students' critical observations and photographic vision. A digital camera is strongly encouraged but not required.

Photography III - STEM (T)
Course #: 15582
Semester: .5 Fine Art credit
Grades: 10-12
Prerequisite: "B" or better in Photography II or teacher approval.
Fees: $40.00
This course requires the serious student to develop an in-depth exploration of complex photographic techniques in the darkroom and on the computer. Students will further explore advanced photographic processes, with an emphasis on advanced digital manipulation in Adobe Photoshop®. Darkroom demonstrations will also enhance printing and developing practices, and readings will be assigned to build students' base knowledge of photographers and photographic techniques. A digital camera is strongly encouraged but not required.

Photography IV STEM (T)
Course #: 15585
Semester: .5 Fine Art credit
Grades: 10-12
Prerequisite: "B" or better in all lower levels and teacher approval.
Fees: $40.00
Students will work on individually driven advanced projects with an emphasis on portfolio development. Both darkroom and digital processes will be included in portfolios. Students will build on their observational skills and concepts of compositions through in-class critiques. Readings will be assigned to build students' base knowledge of photographers and photographic techniques and will be discussed in class. A digital camera is strongly encouraged but not required.

***AP 2-D Art and Design (Photography) STEM (T)**
Course #: 15478S1 / 15478S2
Year: 1.0 Fine Art Credit (1.0 weighted)
Grade: 11-12
Prerequisites: "B" or better in Photography Level I, II, III. Required portfolio review and interview.
Fees: $40.00 per semester and AP fees
Students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions. Students may choose to submit any or all of the AP Portfolio Exams.

Sculpture I
Course #: 15550
Semester: .5 Fine Art Credit
Grades: 9-12
Fees: $40.00
This course is designed for advanced sculpture students. Advanced techniques and mediums will be further explored. Students will continue exploring ways of engaging space through the creation of 5 Sculptures using a variety of different themes and materials. This course will continue building upon the knowledge in level 1.

Sculpture II
Course #: 15555
Semester: .5 Fine Art Credit
Grades: 9-12
Prerequisite: "B" or better in Sculpture I or teacher approval.
Fees: $40.00
This course is designed for advanced sculpture students. Advanced techniques and mediums will be further explored. Students will practice building a small portfolio of work exploring a single theme, this will help prepare them for AP Art and building personal artistic style.

Sculpture III
Course #: 15560
Semester: .5 Fine Art Credit
Grades: 10-12
Prerequisite: "B" or better in Sculpture II or teacher approval.
Fees: $40.00
Students will work on individual, advanced projects with an emphasis on portfolio development and creating a personalized artistic style. Students will research, plan, create, reflect, and create a series of sculptures around themes of their choosing.

Sculpture IV
Course #: 15565
Semester: .5 Fine Art Credit
Grades: 10-12
Prerequisite: "B" or better in Sculpture III or teacher approval.
Fees: $40.00

Students will work on individual, advanced projects with an emphasis on portfolio development and creating a personalized artistic style. Students will research, plan, reflect, and create a series of sculptures around themes of their choosing.

<u>*AP 3-D Art and Design (Sculpture)</u>
Course #: 15481S1 / 15481S2
Year: 1.0 Fine Art Credit (1.0 weighted)
Grade: 11-12
Prerequisites: "B" or better in Level I, II, & III of your content area. Required portfolio review and interview.
Fees: $40.00 per semester and AP fees
Students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions. Students may choose to submit any or all of the AP Portfolio Exams.

<u>CTE Credit-for-Work</u> STEM (T/E)
Course #: 49827S1 / 49827S2
Semester: .5 Elective Credit
Grades: 11-12
Prerequisites: Current or past enrollment in CTE course in the Design and Multimedia Arts pathway, reliable transportation, and a confirmed place of employment by the 10th day of the semester.
**A CTE Credit-for-Work allows students to receive school credit for working in a paid job related to this particular CTE pathway. Students must find their own employment, remain in good standing at their job, and work for a minimum of 120 hours to receive credit.*

Business and Marketing

Department Chair: Rhead Kinder

Business and Marketing

COURSE OFFERINGS

Business and Marketing	9TH	10TH	11TH	12TH	CREDIT MVHS
CTE Business and Marketing Essentials	●	●	●	●	1.0
CTE Intro to Business	●	●	●	●	0.5
CTE Entrepreneurship		●	●	●	0.5
CTE Event Marketing/ Communications		●	●	●	0.5
CTE SBE Retail			*	*	0.5
CTE Leadership			*	*	0.5

ACC Concurrent Enrollment	9TH	10TH	11TH	12TH	CREDIT MVHS	CREDIT ACC
BUS 1015 - Introduction to Business		*	●	●	0.5	3.0
BUS 1016 - Personal Finance			●	●	0.5	3.0
BUS 2016 - Legal Environment of Business			●	●	0.5	3.0
FIN 1010 - Intro to Finance			●	●	0.5	3.0
MAR 1055 - Social Media for Business		**	●	●	0.5	3.0
MAR 1060 - Customer Service		**	●	●	0.5	3.0
MAR - 2016 Principles of Marketing		**	●	●	0.5	3.0

* With instructor approval/signature.

** Prerequisite - CTE Business and Marketing Essentials

ALL BUSINESS AND MARKETING CLASSES ARE DECA/FBLA ELIGIBLE, INCLUDING CONCURRENT ENROLLMENT CLASSES.

CTE Intro to Business
Course #: 79061102
Semester: .5 Practical Art Credit
Grades: 9-12
Fees: $30.00
Standards: National Business Education Association Standards.
Introduces the application of fundamental business principles to local, national, and international forums. This course examines the relationship of economic systems, governance, regulations, and law upon business operations. It surveys the concepts of career development, business ownership, finance and accounting, economics, marketing, management, operations, human resources, regulations, and business ethics.

CTE Business and Marketing Essentials
Course #: 79061101S1 / 79061101S2
Year: 1.0 Practical Art Credit
Grades: 9-12
Fees: $30.00
Standards: National Business Educators of America Standards.
Business and Marketing Essentials (Standard), an introductory business and marketing course, enables students to acquire a realistic understanding of business processes and activities. Students examine fundamental economic concepts, the business environment, and primary business activities. They develop an understanding of and skills in such areas as customer relations, economics, emotional intelligence, financial analysis, human resources management, information management, marketing, operations, professional development, and strategic management. Throughout the course, students are presented ethical dilemmas and problem-solving situations for which they must apply academic and critical-thinking skills.

CTE Entrepreneurship STEM (T)
Course #: 79061401
Semester: .5 Practical Art Credit per semester
Grades: 10-12
Fees: $30
Standards: National Business Education Association Standards
During this course, students will demonstrate their understanding of business and management in a variety of simulated scenarios applying theories, concepts, and problem-solving. Students will complete a final project which will demonstrate their understanding of fundamental business concepts including Accounting, Business Law, Ethics, Entrepreneurship, Computer Information Systems, Finance, Human Resources, Management, Marketing, Operations, Project Management, Risk Management, and Strategic Planning. The course covers the major aspects of small business management to enable the entrepreneur to successfully start a business.

CTE Event Marketing/Communications STEM (T)
Course #: 79061301
Semester: .5 Practical Art Credit
Grades: 10-12
Fees: $30.00
Standards: National Business Education Association Standards.
Defines the importance and role of marketing, media and public relations in the event planning industry. Identify marketing and communication tools such as social media, promotional events, networking and blogs. Design a marketing plan to include target market research, communication tools, objectives, strategies, and implementation.

CTE BAM Leadership STEM (T/E)
Course #: 79061402S1
Semester: .5 Practical Art Credit
Grades: 11-12
Prerequisite: Minimum 2 years membership in DECA and/or FBLA; Teacher recommendation
Standards: National Business Education Association Standards
This leadership course is designed to empower students with essential skills and knowledge to excel in the dynamic world of business and leadership. Through a comprehensive curriculum, students will explore key concepts such as strategic planning, effective communication, decision-making, and ethical leadership. The course emphasizes practical applications through case studies, team projects, and real-world simulations, allowing students to develop critical thinking and problem-solving abilities. By delving into topics like organizational behavior, goal setting, and project management, students will not only gain a deep understanding of business principles but also cultivate the leadership qualities necessary for success in their academic and professional journeys. This course aims to inspire and prepare the next generation of innovative and socially responsible leaders.

CTE SBE Retail (*School Store) STEM (E)
Course #: 79061406S1
Semester: .5 or 1.0 Practical Art Credit
Grades: 11-12
Prerequisite: Any Business or Marketing Class AND Business/Marketing Teacher Approval
Fees: $30
Standards: National Business Education Association Standards.
This course is an entrepreneurial operation in a school setting that provides goods/services to meet the needs of a market. Students will learn hands-on retail procedures including customer service, advertising, sales, merchandising and math.

CTE BAM WBL (Internship) STEM (T/E)
Course #: 79069999S1 / 79069999S2
Semester: .5 Practical Art Credit
Grades: 11-12
Prerequisite: Any Business or Marketing Class

A CTE internship allows students to explore a career of interest prior to leaving high school and entering a college or certification program related to the career. The experience provides an opportunity for students to learn from and network with professionals in the field. Students will evaluate their strengths and weaknesses and acquire information to make wise future academic and employment decisions. The internship must be unpaid and a minimum of 40 hours must be completed to receive credit.

ACC College Ready Courses

ACC-BUS 1015 Introduction to Business
Course #: 69015
Grades: 11-12 (10th Grade with Instructor Approval)
Semester: .5 Practical Art Credit (1.0 weighted)
ACC Credit: 3 credits
Fees: $15.00 + ACC textbook fee
Focuses on the operation of the American business system. Covers fundamentals of the economy, careers and opportunities, marketing, management, production, governmental regulations, tools of business and social responsibilities.

ACC-BUS 1016 Personal Finance
Course #: 69016
Grades: 11-12
Semester: .5 Practical Art Credit (1.0 weighted)
ACC Credit: 3 credits
Fees: $15.00 + ACC Textbook fee and required online workbook fee of $25.00.
Surveys the basic personal financial needs of most individuals. Emphasizes the basics of budgeting and buying, saving and borrowing money, the intricacies of home ownership, income tax and investments , and the wise use of insurance, wills, and trusts.

ACC-BUS 2016 Legal Environment of Business
Course #: 69260
Grades: 11-12
Semester: .5 Practical Art Credit (1.0 weighted)
ACC Credit: 3 credits
Fees: $15.00 fee + ACC Textbook fee
Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention is given to economic regulation, social regulation, labor-management issues, environmental issues, and contract fundamentals. This course analyzes the role of law in social, political, and economic change business environments.

ACC-FIN 1010 Intro to Finance
Course #: 69010
Semester: .5 Practical Art Credit (1.0 weighted)

ACC Credit: 3 credits
Grades: 11-12
Fees: $15.00 fee + ACC Textbook fee
Prerequisite: Any Business/Marketing Class, Students must have an ACC "S" number
Standards: National Business Educators of America Standards.
Provides factual knowledge of financial institutions and the monetary system used in the United States in relation to the global economy. Examines tools and techniques such as capital budgeting, time value of money, analysis of financial statements, cost of capital, and risk analysis to analyze business decisions, plan and determine project and firm value, and evaluate sources of financing.

ACC-MAR 1055 Social Media for Business STEM (T)
Course #: 69217
Grades: 10-12
Semester: .5 Practical Art Credit (1.0 weighted)
ACC Credit: 3 credits
Prerequisite: For 10th grade, CTE Business and Marketing Essentials. No prereq for 11th or 12th grades. Students must have an ACC "S" number.
Fees: $15.00 fee + ACC Textbook fee + Membership DECA fee.
Presents the analysis of theoretical marketing processes and the strategies of product development, pricing, promotion and distribution, and their applications to businesses and the individual consumer. Students enrolled in this course must be concurrently enrolled in ACC. Second year marketing students work collaboratively with companies to aid in the process of coming up with fresh ideas, attracting new customers, staying relevant, growing careers, and selling products and services. Marketing II students do this through the development of a written business plan. This business plan will automatically qualify the student for competition in DECA at the State Leadership Conference. Completion of Marketing I is required to enroll in this course.

ACC-MAR 1060 Customer Service
Course #: 69003
Grades: 10-12
Semester: .5 Practical Art Credit (1.0 weighted)
ACC Credit: 3 credits
Prerequisite: For 10th grade, CTE Business and Marketing Essentials. No prereq for 11th or 12th grades. Students must have an ACC "S" number.
Fees: $15.00 + ACC Textbook fee + Membership DECA fee.
Teaches students how to use social media as a business strategy and covers how to match that strategy with the goals of the business. This course addresses current trends, ethics, regulations, legal challenges, strategy, content development, and change management. This course helps students develop a better understanding of how marketing with social media is similar to and different from traditional marketing and how to best use online methods to further business goals. Students enrolled in this course must be concurrently enrolled in ACC.
Enables students to learn the relationship of self to customers, problem solve and understand the importance of communication with customers. Specific emphasis is given to managing customer expectations by building customer rapport and creating positive outcomes.

ACC-MAR 2016 Principles of Marketing

Course #: 69216

Grades: 10-12

Semester: .5 Practical Art Credit (1.0 weighted)

ACC Credit: 3 credits

Prerequisite: CTE Business and Marketing Essentials. Students must have an ACC "S" number.

Fees: $15.00 + ACC Textbook fee + Membership DECA fee.

Second year marketing students work collaboratively with companies to aid in the process of coming up with fresh ideas, attracting new customers, staying relevant, growing careers, and selling products and services. Marketing II students do this through the development of a written business plan. This business plan will automatically qualify the student for competition in DECA at the State Leadership Conference. Completion of Marketing I and one more full year of Marketing classes is required to enroll in this course.

Construction

Department Chair: David Larsen

Basic Repairs for Home or Apartment STEM (E)
Course #: 45415
Semester: .5 Practical Art Credit
Grades: 10-12
Fees: $45.00
The Basic Repairs for Home or Apartment class will provide students with the opportunity to learn essential skills to perform maintenance and repair tasks in a personal dwelling. In addition to general safety, curriculum will include, but is not limited to, the following non-code topics: pouring and finishing a small concrete pad, framing and finishing walls, basic wiring and electrical topics, mounting a toilet, changing a bath/kitchen fixture, sprinkler systems, changing door hardware, painting, installing roofing and fencing, and basic furniture repairs. The focus of this course will be on practical skills needed for repairs that will save you, your family, and your friends money. You can make a career out of the work we will be doing!

Woodworking II (Home Repair II and Carpentry) STEM (E)
Course #: 45410
Semester: .5 Practical Art Credit
Grades: 10-12
Prerequisite: "B" or higher in Home Repair - Or special approval from Mr. Larsen/Instructor
Fees: $40.00
We are structuring this course as a "second level" Home Repair class. This is an advanced level course for individuals who are interested in progressing their woodworking skills and core knowledge. Emphasis will be placed on joinery, individual design and construction of a variety of projects, such as laminates and small furniture construction. Projects may include, but are not limited to: outdoor/indoor furniture, sheds, wall shelves and organizers, and other interest based projects.

This course will also include practice in other building trades, automotive topics, career exploration, good work habits, and employability skills. There will be a business focus as well in the course as we may build projects for subsequent sale in the community.

Carpentry courses provide information related to the building of wooden structures, enabling students to gain an understanding of wood grades and construction methods and to learn skills such as laying sills and joists; erecting sills and rafters; applying sheathing, siding, and shingles; setting door jambs; and hanging doors. Carpentry courses may teach skills for rough construction, finish work, or both. Students learn to read blueprints, draft, use tools and machines properly and safely, erect buildings from construction lumber, perform finish work inside of buildings, and do limited cabinet work.

English

Department Chair: Meg Blaze

Mountain Vista English Department Skills Based Curriculum

This curriculum is based on students receiving a progression of skills throughout their high school experience. All core courses are year-long classes.

Upon careful consideration by students, parents, and teachers, students may vertically transition between programs and pathways (e.g. students may move from Honors English I to on-level English II or from on-level English I to Honors English II).

General, College Preparatory, and Concurrent Enrollment

9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
ENGLISH I	ENGLISH II Prerequisite: successful completion of English I.	ENGLISH III Prerequisite: successful completion of English I/Honors English I and/or English II/Honors English II.	ENGLISH IV Prerequisite: successful completion of English I/Honors English I, English II/Honors English II, English III
↳	HONORS ENGLISH II Prerequisite: successful completion of English I.		ACC 1021 Comp I ACC 1022 Comp II ACC 1015 Intro to Lit ACC 2046 Lit of Women See Prerequisites below

Accelerated: Honors and Advanced Placement

9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
HONORS ENGLISH I Prerequisite: teacher recommendation	HONORS ENGLISH II Prerequisite: successful completion of English I or Honors English I and teacher recommendation	AP LANG AND COMP. Prerequisite: successful completion of English I/Honors English I and/or English II/Honors English II, and teacher recommendation.	AP LIT AND COMP. Prerequisite: successful completion of English I/Honors English I, English II/Honors English II, AP Lang, and teacher recommendation.

Alternative, Elective, And Concurrent Enrollment

Alternative Offerings	Elective Courses	Concurrent Enrollment
English Strategies (9-12) English Language Development (9-12)	CTE Reporting (9-12) CTE Print Media I (9-12) CTE Print Media II (10-12) CTE Editing (9-12) Composition and News (10-12) Creative Writing (9-12) Creative Writing II (10-12) Public Speaking (9-12) Competitive Speech (9-12) Debate (9-12)	**ACC ENG 1021, LIT 1015, LIT 2046** Prerequisite: Cumulative 3.0+ GPA OR SAT Evidenced Reading and Writing 470+ OR ACT English 18+, OR Next Gen Accuplacer Writing 246+; If GPA 2.6-2.99, a B in second semester English III or AP Language & Composition will qualify. In addition, completion of application by deadline date and teacher approval. **ACC ENG 1022** Prerequisite: Cumulative 3.0+ GPA AND C or better in ENG 1021 OR 3 or better on AP Language exam OR SAT Evidenced Reading and Writing 620+ OR ACT English 26+. In addition, completion of application by deadline date and teacher approval.

English I
Course #: 50300S1 / 50300S2
Year: 1.0 English Credit
Grades: 9
Prerequisite: Required of all freshmen unless the student enrolls in Honors English I.
Fees: Possible online workbook fee.
This year-long course develops an understanding and appreciation of literature by focusing on the genres of novel, drama, short story, and poetry. Both semesters of this course must be successfully completed in order for a student to progress to other English classes at Mountain Vista.

Honors English I
Course #: 899100S1 / 899100S2
Year: 1.0 English Credit (0.5 weighted)
Grade: 9
Prerequisite: Students must have on-level or higher reading ability and recommendation of previous English teacher.
Fees: Required to purchase vocabulary book/program (approximately $15.00), and paperbacks (approximately $75.00).
This year-long course is for a student capable of a more challenging curriculum and provides a strong foundation for subsequent Honors English classes. This course covers the same English I, but ranges far beyond. The student will read every night and write multi-paragraph essays monthly. Both semesters of this course must be successfully completed in order for a student to progress to other advanced English classes at Mountain Vista.

English II
Course #: 50330S1 / 50330S2
Year: 1.0 English Credit
Grades: 10
Prerequisite: Successful completion of both semesters of English I, Honors English I. Required of all sophomores unless a student enrolls in Honors English II.
This year-long course will help students who want to learn to write more effectively and to overcome the structural problems in their writing. Analytic reading and examination of effective models of writing are used in addition to critical reading of a variety of texts. The course also emphasizes a critical study of the diverse literary and cultural traditions that coincide with the economic, geographic and governmental developments from ancient to modern world history. Both semesters of this course and two semesters of a freshman level English course must be successfully completed in order for a student to progress to other English classes at Mountain Vista.

Honors English II
Course #: 899101S1 / 899101S2
Year: 1.0 English Credit
Grade: 10
Prerequisite: Successful completion of both semesters of English I or Honors English I. Students must also possess strong reading and writing skills and must receive a recommendation from a previous English teacher.
Fees: Required to purchase vocabulary book/program (approximately $15.00), and paperbacks (approximately $75.00).
This year-long course is intended for a student capable of a more challenging curriculum and provides a strong foundation for junior-level and senior-level Advanced Placement classes. The student will have a rigorous reading schedule and multiple writing tasks. This course covers the same skills as English II but ranges far beyond. Both semesters of this course and two semesters of a freshman level English course must be successfully completed in order for a student to progress to other English classes at Mountain Vista.

English III
Course #: 50360S1 / 50360S2
Year: 1.0 English Credit
Grade: 11
Prerequisite: Successful completion of both semesters of English I, Honors English I, or both semesters of English II, or Honors English II. Required of all juniors unless a student enrolls in Exploring English III or AP Lang/Comp.
This year-long course will help students further improve their writing and reading skills. The course emphasizes a critical study of classical and modern American Literature together with writing for a variety of purposes and audiences. Both semesters of this course and two semesters of a freshman-level and a sophomore-level core English course must successfully be completed in order for a student to progress to other English classes at Mountain Vista.

***AP Language and Composition**
Course #: 50390S1 / 50390S2
Year: 1.0 English Credit (1.0 weighted)
Grade: 11
Prerequisite: Successful completion of 9th and 10th grade English courses. A college-level reading ability is recommended for success in this course due to the difficulty of the material.
Fees: AP Exam fees and books.
AP English Language and Composition is an introductory college-level composition course. Students cultivate their understanding of writing and rhetorical arguments. Students read a diverse selection of nonfiction and fiction works as they explore topics like rhetorical situations, claims and evidence, reasoning and organization, and style.

English IV

Course #: 50440S1 / 50440S2

Year: 1.0 English Credit

Grade: 12

Prerequisite: Successful completion of both semesters of English I, Honors English I, both semesters of English II, or Honors English II; and English III, Exploring English III, or AP Lang/Comp. Required of all seniors unless a student enrolls in Exploring English IV, AP Literature & Composition or ACC English.

This year-long course will challenge students to improve the sophistication of their writing by asking students to write for a variety of purposes and audiences (including a college application essay.) The course will stress the critical study of literary archetypes and analysis of these elements within a variety of fiction and non-fiction. Senior Project demonstrating graduation competencies in research, writing, presentation, financial literacy, and problem solving. Emphasis on nonfiction narrative writing, podcasts and independent reading. Both semesters of this class and two semesters of a freshman-level, a sophomore-level, and a junior-level core English course must be successfully completed for a student to graduate from Mountain Vista High School.

***AP Literature and Composition**

Course #: 50400S1 / 50400S2

Year: 1.0 English Credit *(*1.0 weighted)

Grade: 12

Prerequisite: Successful completion of 9th, 10th, and 11th grade English courses. A college-level reading ability is recommended for success in this course due to the difficulty of the material.

Fees: AP Exam fees and books.

AP English Literature and Composition is an introductory college-level literary analysis course. Students cultivate their understanding of literature through reading and analyzing diverse texts including novels, short stories, drama, and poetry.

ELD English I (Sheltered ESL English)

Course #: 40600S1 / 40600S2

Year: 1.0 English Credit

Grades: 9-12

Prerequisite: Teacher approval

ESL English I is designed to support English Learners new to the English language transition to the high school English program by strengthening reading, writing, listening, and communication skills. It gives students the opportunity to develop an understanding and appreciation of literature. Students will study literature through various genres: novel, drama, short story, and nonfiction as well as through common themes. The study of grammar, usage, and mechanics will be integrated with the students' writing.

ELD English II
Course #: 40601S1 40601S2/
Year: 1.0 English Credit
Grades: 9-12
Prerequisite: Teacher approval
ESL English II is designed to support English Learners new to the English language transition to the high school English program by strengthening reading, writing, listening, and communication skills. They will also explore the genres of novel, short story, nonfiction, poetry, essay, speeches, and drama. In addition, students will be expected to successfully complete a major research project; multi-paragraph, thesis-driven essays; critical analysis essays; essay tests; and first person, narrative accounts.

CTE Reporting (Intro to Journalism) - STEM (T)
Course #: 7903115
Semester: .5 Elective Credit
Grades: 9-12
Students are introduced to the variety of programs and occupations in communications and media systems. Students will demonstrate an understanding of how to gather information that may be published in print or online media. Instruction will be paired with hands-on lab experiences in reporting, both verbal and visual.

CTE Print Media I STEM (T)
Course #: 7903113S1/ 7903113S2
Year: 1.0 Elective Credit
Grades: 9-12
Students demonstrate their understanding of a variety of programs and occupations in print media using digital tools. Focus is on producing content for reader-oriented publications (the Vista yearbook, newsmag and online websites). Instruction will be paired with hands-on lab experiences in community reporting, both verbal and visual.

CTE Print Media II STEM (T)
Course #: 7903209S1 / 7903209S2
Year: 1.0 Elective
Grades: 10 -12
Prerequisite: Successful completion of Print Media I
This course is recommended for students who have completed Print Media I and who want to develop their leadership skills while expanding on various modes of reporting and creating print media for specific audiences. Instruction will be paired with hands-on lab experiences in community reporting.

CTE Editing STEM (T)
Course #: 79032301
Semester: .5 Elective
Grades: 9-12
This course is recommended for students who have completed Reporting and/or Print Media 1 and 2 and who want to develop their leadership skills while expanding on various modes of reporting and creating presentations in multiple platforms for specific audiences. Instruction will be paired with hands-on lab experiences.

Composition and News (MV Media) STEM (T)
Course #: 50411S1 / 50411S2
Year: 1.0 Elective Credit (May be repeated for elective credit)
Grades: 10-12
This class is composed of the editors in chief of the yearbook, news magazines and all social media platforms. This class will advance the skills of all students in design, organization and educating their peers. This class will focus on the barebones of creating the book and how these peers will support/teach their peers, all working towards the final product.

Creative Writing
Course #: 50470
Semester: .5 English Credit
Grades: 9-12
During this semester elective course, students will plan, write, revise, and produce several forms of creative writing including short stories, poetry, screenplays, and print or video media. Students will study examples from the various modes of creative writing to assist them in creating their own original work, and they will engage in extensive critiquing, editing, and rewriting activities.

Creative Writing II
Course #: 50480
Semester: .5 English Credit
Grades: 10-12
Prerequisite: Successful completion of Creative Writing I and teacher approval.
Creative Writing II is designed for students who want to take their creative writing to the next level and write for publication. This course teaches the art of writing for an audience as well as the skills of manuscript revision, preparation, and marketing. In addition to writing for publication, students will learn about publishing by designing, copyediting, and producing a showcase for creative writing by MVHS students.

Public Speaking
Course #: 50700
Semester: .5 Elective Credit
Grades: 9-12
In this course students will develop self-confidence through writing and presenting speeches on various subjects. The focus will be on developing the students' skills in researching, outlining, speech writing, and critical listening. Special emphasis will be placed on the creation and delivery of speeches.

Competitive Speech
Course #: 50720
Semester: .5 Elective Credit (May be repeated for elective credit)
Grades: 9-12
In this course students will study and develop skills in extemporaneous and impromptu speaking, original oratory, and interpretation of poetry, drama, and humor. Emphasis is on preparing students to complete in accordance with the guidelines set forth from the National Speech and Debate Association.

Debate

Course #: 50710

Semester: .5 Elective Credit (May be repeated for elective credit)

Grades: 9-12

Students will learn the fundamentals of argumentation and debate procedures as well as specific techniques in developing both negative and affirmative cases. Students will develop reading and composition skills for college-level work. This course will include Public Forum and Congressional debate with emphasis on the National Speech and Debate Association national debate topic for competition.

CTE Design Multimedia CAP STEM (T)

Course #: 7903888S1 / 7903888S2

Year: 1.0 Elective Credit

Grades:11-12

This course is recommended for students who have completed Reporting and/or Print Media 1 and 2. It is a course which allows for individualized, advanced, and/or cumulative work in a program of study. This work is individualized to the student within a specific program of study to allow for specialized study. It may include problem-/project-based learning or preparation for industry certification. The specific content and course design is determined by the instructor, in collaboration with the individual student.

CTE Design Multimedia WBL (Internship) STEM (T)

Course #:79031888S1 / 79031888S2

Year: 1.0 Elective Credit

Grades: 11-12

This course is recommended for students who have completed Reporting and/or Print Media 1 and 2. This requires a signature by the teacher. It is a course which allows for individualized, advanced, and/or cumulative work in a program of study. Students build on prior knowledge and skills in the program of study to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education, as deemed developmentally appropriate.

ACC College Credit Courses

*NOTE: If a Senior wants to take an ACC English course, they MUST register for TWO of the four options.

ACC-ENG 1021 English Composition I: GT-CO1
Course #: 69025
Grade: 12
Semester: .5 English Credit (1.0 weighted)
ACC Credit: 3 credits
Fees: $15.00 + Cost of textbooks and novels
Prerequisite: Cumulative 3.0+ GPA OR SAT Evidenced Reading and Writing 470+ OR ACT English 18+, OR Next Gen Accuplacer Writing 246+; If GPA 2.6-2.99, a B in second semester English III or AP Language & Composition will qualify. In addition, completion of application by deadline date and teacher approval.
Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a minimum of five compositions that stress analytical, evaluative, and persuasive/argumentative writing. This course is one of the statewide Guaranteed Transfer courses. GT-C01.

ACC-ENG 1022 English Comp II: GT-CO2
Course #: 69026
Grade: 12
Semester: .5 English Credit (1.0 weighted)
ACC Credit: 3 credits
Fees: $15.00 + Cost of textbooks and novels
Prerequisite: Cumulative 3.0+ GPA AND C or better in ENG 1021 OR 3 or better on AP Language exam OR SAT Evidenced Reading and Writing 620+ OR ACT English 26+. In addition, completion of application by deadline date and teacher approval.
Expands and refines the objectives of English Composition I. Emphasizes critical/logical thinking and reading, problem definition, research strategies, and writing analytical, evaluative, and/or persuasive papers that incorporate research. This course is one of the Statewide Guaranteed Transfer courses. GT-CO2.

ACC-LIT 1015 Introduction to Literature I: GT-AH2
Course #: 69027
Grade: 12
MVHS Semester: .5 English Credit (1.0 weighted)
ACC Credit: 3 credits
Fees: $15.00 + Cost of textbooks and novels
Prerequisite: Cumulative 3.0+ GPA OR SAT Evidenced Reading and Writing 470+ OR ACT English 18+, OR Next Gen Accuplacer Writing 246+; If GPA 2.6-2.99, a B in second semester English III or AP Language & Composition will qualify. In addition, completion of application by deadline date and teacher approval.
This is a college-level survey course that includes fiction, poetry, and drama. Emphasizes active and responsive reading. This course is one of the statewide Guaranteed Transfer courses. GT-AH2.
Recommended: College-level reading ability.

NOTE: This course may contain selections about controversial issues (identity, politics, culture, religion, violence, sexuality, etc…), which will include written and verbal assessments and discussions. This course involves some analysis of individual, personal beliefs but also consideration of diverse perspectives . A mature respect for others' values and beliefs is expected.

ACC-LIT 2046 Lit of Women: GT-AH2

Course #: 69028
Grade: 12
MVHS Semester: .5 English Credit (1.0 weighted)
ACC Credit: 3 credits
Fees: $15.00 + Cost of textbooks and novels
Prerequisite: Cumulative 3.0+ GPA OR SAT Evidenced Reading and Writing 470+ OR ACT English 18+, OR Next Gen Accuplacer Writing 246+; If GPA 2.6-2.99, a B in second semester English III or AP Language & Composition will qualify. In addition, completion of application by deadline date and teacher approval.
Examines the techniques and themes in literature of various genres by and about women by considering what it means for women to be in literature, as characters and also as authors. This is a statewide Guaranteed Transfer course in the GT-AH2 category.
NOTE: This course may contain selections about controversial issues (identity, politics, culture, religion, violence, sexuality, etc…), which will include written and verbal assessments and discussions. This course involves some analysis of individual, personal beliefs but also consideration of diverse perspectives . A mature respect for others' values and beliefs is expected.

Family Consumer Sciences

Department Chair: Maria Luckmann

Family Consumer Science Courses

Course Title	9th Grade	10th Grade	11th Grade	12th Grade
CTE Child & Adolescent Development	•	•	•	•
CTE Teen Choices	•	•	•	•
CTE Fashion I	•	•	•	•
CTE Fashion II (prerequisite: Fashion I)	•	•	•	•
CTE Interior Design I (Residential)	•	•	•	•
CTE Interior Design II (Commercial)	•	•	•	•
CTE Life Management			•	•
CTE Interpersonal Relationships			•	•
CTE Catering I & II	•	•	•	•
CTE Baking & Pastry			•	•
ACC ECE 1011 Introduction to Early Childhood Education			•	•
ACC ECE 1111 Infant & Toddler Development			•	•
CTE Teacher Cadet 1A & 1B			•	•
CTE Credit-for-Work Experience			•	•
CTE Internship			•	•

Introduction to Mindfulness
Course #: 75770
Semester: .5 Practical Art Credit
Grade: 9-12
This experiential, semester-long elective introduces mindfulness and the science surrounding it. In order to effectively understand the positive impact of mindfulness on our mental and physical health, students will explore the scientific research around mindfulness practices. Students will be given resources for stress resilience, and explore the Social Emotional Learning Competencies of improved self-awareness, self-management, social awareness, relationships and decision-making. Simultaneously, students will develop their own formal mindfulness practice both in and out of the classroom, and students will be able to apply mindfulness to daily living.

CTE Educ Child & Adolescent Dev
C**ourse #:** 79102107
Semester: .5 Practical Art Credit
Grades: 9-12
The purpose of this course is to acquire knowledge and understanding of child and adolescent development necessary for strengthening the well-being of children and families. Content focuses on perspectives of human development, research and theories, understanding and nurturing development, and challenges to development.

CTE Educ Interpersonal Relationships
Course #: 79102104
Semester: .5 Practical Art Credit
Grade: 10-12
The purpose of the course is to acquire academic knowledge and understanding for healthy, respectful, and caring relationships across the life span. Emphasis is placed on family and friend dynamics, effective communication, and healthy interpersonal relationships.

CTE [Food] Teen Choices (*Health*)
Course #: 79101104
Semester: .5 Practical Art Credit
Grades: 9-12
This course may be used for .5 credit in Physical Education, Practical Arts or Electives.
In this course, you will learn how to make healthy decisions throughout your teen years. You will learn skills and practices required by individuals to develop, manage and strengthen social, psychological, and physical wellness, interpersonal relationships, safe sexual decision making, anti-substance use practices, and understanding teens and the law.

CTE [Food] Life Management (*Personal Finances*)
Course #: 79101105
Semester: .5 Practical Art Credit
Grades: 11-12
Students will develop decision-making skills to become educated consumers with an understanding and academic knowledge of consumer resources and financial organizations. The course focuses on personal and family resources, job and career, personal and family finances, and wellness. (Relevant topics include: independent living, healthy lifestyles, career research and job portfolios, personal financial literacy, investments, credit, insurance, leasing vs. purchasing of autos and homes.)

CTE Catering 1
Course #: 79101202S1
Semester: .5 Practical Art Credit
Grade: 9-12
Fees: $80.00
This semester class is designed for students with career interests in the food industry as well as owning their own catering business. The purpose of this course is to develop skills in quantity, food preparation, safety and sanitation, planning, customer service, business plans and entrepreneurship. FCCLA is also an integral part of this course.

CTE Catering II
Course #: 79101203S2
Semester: .5 Practical Art Credit
Grade: 10-12
Prerequisite: Catering I
Fees: $80.00
This semester class is designed for students with career interests in the food industry as well as owning their own catering business. The purpose of this course is to develop skills in quantity, food preparation, safety and sanitation, planning, customer service, business plans and entrepreneurship.

CTE Baking Pastry
Course #: 79101301S1
Semester: .5 Practical Art Credit
Grades: 11-12
Fees: $40.00
Baking Pastry is a culinary class designed for the beginning and advanced student. The course includes baking and pastry mixing methods and ingredient identification. You will develop skills in advanced food science, restaurant management, and food preparation techniques. Some foods you will make in class are breads, pies, chocolates, cakes, and fondant. You will also spend time on design and decorating. Meets graduation requirements in Practical Arts.

CTE Food FCS WBL (Internship) STEM (T/E)
Course # 79101999S1 / 79101999S2
Semester: .5 Practical Art Credit
Grades: 11-12
Prerequisites: Current or past enrollment in CTE course in the Hospitality and Food Production pathway, application, teacher approval, and reliable transportation.
Students build on prior knowledge and skills in the program of study to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education.
A CTE internship allows students to explore a career of interest prior to leaving high school and entering a college or certification program related to the career. The experience provides an opportunity for students to learn from and network with professionals in the field. Students will evaluate their strengths and weaknesses and acquire information to make wise future academic and employment decisions. The internship must be unpaid and a minimum of 40 hours must be completed to receive credit.

CTE Interior Design Residential (Interior Design I) STEM (E)
Course #: 79103203
Semester: .5 Practical Art Credit
Grade: 9-12
Fees: $20.00
The purpose of this course is to expose students to various aspects of the interior design industry and is based on the industry's professional standards (Council of Interior Design Accreditation-CIDA). The first semester focuses on residential design. Students integrate knowledge, skills and practices to evaluate potential career opportunities. Areas of focus include: Introduction to Residential and Commercial Design; Design Drawings; Professional Practices/Education

CTE Interior Design Commercial (Interior Design II) STEM (E)
Course #: 79103204
Semester: .5 Practical Art Credit
Grade: 9-12
Prerequisite: "B" or higher grade in Interior Design I
Fees: $20.00
The purpose of this course is to expose students to various aspects of the interior design industry and is based on the industry's professional standards (Council of Interior Design Accreditation-CIDA). The first semester focuses on residential design. Students integrate knowledge, skills and practices to evaluate potential career opportunities. Areas of focus include: Introduction to Residential and Commercial Design; Design Drawings; Professional Practices/Education; Design Elements and Principles; and the Design Process.

CTE Fashion Design 1 STEM (E)
Course #: 79103201
Semester: .5 Practical Art Credit
Grade: 9-12
Fees: $20.00

The purpose of this course is to expose students to various aspects of the fashion design and merchandising industry. Students integrate knowledge, skills, and practices to evaluate potential career opportunities. Emphasis is placed on an introduction to fashion, fashion and textile selection, product construction and fashion merchandising.

CTE Fashion Design II STEM (E)
Course #: 79103202
Semester: .5 Practical Art Credit
Grade: 9-12
Prerequisite: "B" or higher in Fashion Design I
Fees: $20.00
The purpose of this course is to expose students to various aspects of the fashion design and merchandising industry. Students integrate knowledge, skills, and practices to evaluate potential career opportunities. Emphasis is placed on an introduction to fashion, fashion and textile selection, product construction and fashion merchandising.

CTE Design Seminar STEM (E)
Course #: 79103102
Semester: .5 Practical Art Credit
Grade: 10-12
Prerequisite: Fashion Design II OR Interior Design II
Fees: $40.00
Continue to grow and develop your design skills after taking Interior Design II and Fashion II through this Design Seminar course. You will not only continue hands-on work to refine their skills in these design fields, but also explore career pathways in design such as pattern makers, fashion buyers, design director, lighting designer, furniture designer, interior decorator, etc.

CTE Design FCS WBL (Internship) STEM (E)
Course # 79103999S1 / 79103999S2
Semester: .5 Practical Art Credit
Grade: 11-12
Prerequisites: Current or past enrollment in CTE course in the Visual and Art Design pathway, application, teacher approval, and reliable transportation.
Students build on prior knowledge and skills in the program of study to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education.
A CTE internship allows students to explore a career of interest prior to leaving high school and entering a college or certification program related to the career. The experience provides an opportunity for students to learn from and network with professionals in the field. Students will evaluate their strengths and weaknesses and acquire information to make wise future academic and employment decisions. The internship must be unpaid and a minimum of 40 hours must be completed to receive credit.

ACC-ECE 1011 Introduction to Early Childhood
Course #: 69057
Semester: .5 Practical Art Credit (1.0 weighted)
ACC Credit: 3 credits
Grades: 11-12

Prerequisites: CTE Educ Child & Adolescent Dev recommended, Students must have an ACC "S" number
Provides an introduction to Early Childhood Education. Includes the eight key areas of professional knowledge: Child Growth and Development; Health, Nutrition and Safety; Developmentally Appropriate Practices; Guidance; Family and Community Relationships; Diversity; Professionalism and Supervision. Focuses on birth through age eight.

ACC-ECE 1111 Infant & Toddler Development
Course #: 69060
Semester: .5 Practical Art Credit (1.0 weighted)
ACC Credit: 3 credits
Grades: 11-12
Prerequisites: ECE 1011 with passing grade, Students must have an ACC "S" number
Presents an overview of theories, applications (including observation), and issues pertinent to infant and toddler development in group and/or family settings. Includes state requirements for licensing, health, safety and nutrition. Focuses on birth through age three.

CTE Teacher Cadet 1A
Course #: 79102201 **These courses must be taken together*
Semester: 0.5 Practical Art Credit
Grades: 11-12
Prerequisite: Application process, Instructor approval
This is the first semester of a full-year course is designed for students who have a strong interest in, or who are considering a career related to, the occupation of "teacher" at any age or grade level. Students will complete self-assessments, participate in individual and group projects, complete observations at various ages and stages of learning, and increase their understanding of themselves and others as "learners". The culminating event in this class is 50 hours of field experience during the second semester at an area school where students will plan and deliver lessons under the supervision of a cooperating teacher. This academic elective course is fast-paced and students may apply for college credit with a "B" or higher in the class.

CTE Teacher Cadet 1B (ACC-EDU 2011 Introduction to Education & ACC-EDU 2088 Practicum II)
Course #: 6902211 & 6902288
Semester: 1.0 Practical Art Credit (1.0 weighted)
ACC Credit: 4 credits
Grades: 11-12
Prerequisite: Must be taken with CTE Teacher Cadet 1A
Focuses on the historical, social, political, philosophical, cultural, and economic forces that shape the United States public school system. This course includes current issues of education reform, technology as it relates to education, and considerations related to becoming a teacher in the state of Colorado. The course addresses diversity in the preschool through secondary school system. The Practicum portion provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the education facility and with the direct guidance of the Instructor.

CTE Educ FCS WBL (Internship) STEM (T/E)
Course # 79102999S1 / 79102999S2
Semester: .5 Practical Art Credit

Grade 11-12
Prerequisites: Current or past enrollment in CTE course in the Education pathway, application, teacher approval, and reliable transportation.
Students build on prior knowledge and skills in the program of study to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education. A CTE internship allows students to explore a career of interest prior to leaving high school and entering a college or certification program related to the career. The experience provides an opportunity for students to learn from and network with professionals in the field. Students will evaluate their strengths and weaknesses and acquire information to make wise future academic and employment decisions. The internship must be unpaid and a minimum of 40 hours must be completed to receive credit.

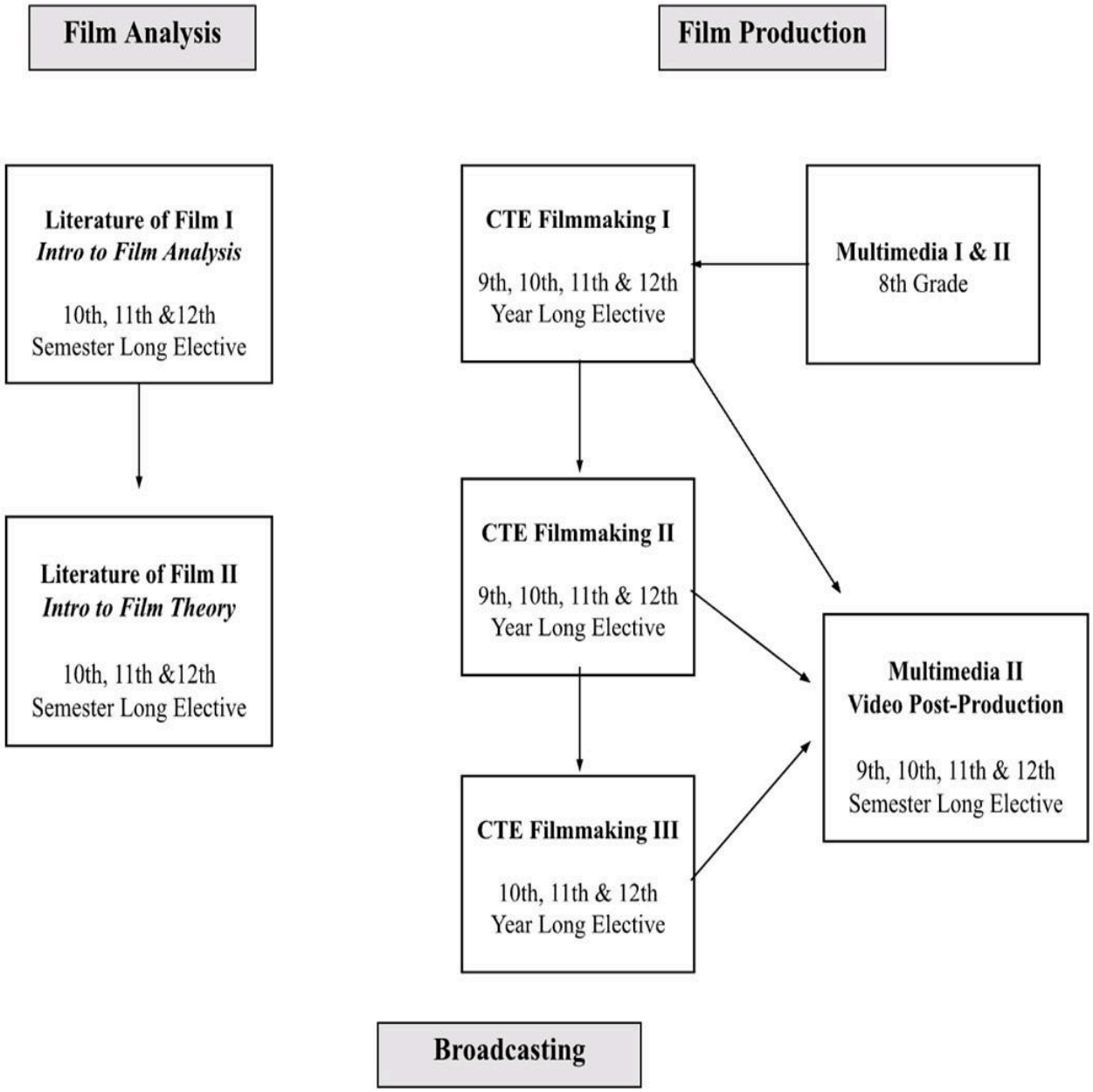
CTE Credit-for-Work STEM (T/E)

Course #: 49827S1 / 49827S2
Semester: .5 Practical Art Credit
Grades: 11-12
Prerequisites: Current or past enrollment in CTE course in Hospitality, Food, Design, or Education class, reliable transportation, and a confirmed place of employment by the 10th day of the semester.
CTE Credit-for-Work allows students to receive school credit for working in a paid job related to this particular CTE pathway. Students must find their own employment, remain in good standing at their job, and work for a minimum of 120 hours to receive credit.

Film Studies

Department Chair: Jake Sabot

Mountain Vista High School
Film Studies Flowchart



CTE Filmmaking I (Beginning Film Production) STEM (T)
Course #: 7903108S1 / 7903108S2
Year: 1.0 Elective Credit
Grades: 9-12
Fees: $30
Fundamentals of video production, including story development as well as the techniques and aesthetics of shooting, lighting, and editing. Emphasis is on hands-on production experience using digital video. Students will write, shoot, and edit original films.

CTE Filmmaking II (Intermediate Film Production) STEM (T)
Course #: 7903203S1 / 7903203S2
Year: 1.0 Elective Credit
Grades: 9-12
Fees: $30
Prerequisite: Students must earn a grade of C or higher in Beginning Film Production or get teacher approval.
This course will reinforce the fundamentals of video production taught in the Introduction to Filmmaking course and will expand in scope to include more advanced principles, mechanics, and processes of the video production process. Students will learn more advanced sound recording, lighting techniques, production scheduling and will begin using industry standard film editing software for their original films. In addition, students will work on submissions for film festivals.

CTE Filmmaking III (Advanced Film Production) STEM (T)
Course #: 7903303S1 / 7903303S2
Year: 1.0 Elective Credit
Grades: 10-12
Fees: $30
Prerequisites: Students must earn a grade of C or higher in Intermediate Film Production.
Advanced Film Production students will focus on mastering the skills they have learned in the Beginning and Intermediate Film Production courses. Students will write, shoot, and edit original films. In addition, students will build portfolios showcasing their filmmaking skills in preparation for college/job application.

CTE Broadcast Production (Sports Broadcasting) STEM (T)
Course #: 7903107S1 / 7903107S2
Year: 1.0 Elective Credit
Grades: 9-12
Fees: $30.00
Students will learn advanced video production techniques and develop practical media experience. Students will learn about the basics of preparing for and broadcasting live sporting events. Students will produce internet broadcasts of MVHS live sporting events as well as video segments for Vista Now.

CTE Digital Media & Comm - AV I (MVTV BROADCAST) STEM (T/E)
Course #: 7903112S1 / 7903112S2
Year: 1.0 Elective Credit
Grades: 10-12
Fees: $35.00
Prerequisite: Students must earn a grade of C or higher in Beginning Film Production or get teacher approval.
The MVTV class offers students who have a high interest in TV broadcast communication and Film Production to put together content rich television programs and short films. This course demands a high level of creative ability and rigorous analytical skills. The focus of the course is two-fold: 1) the intensive study of television and film production techniques and 2) the hands-on production of a television news show MVTV broadcast to the school along with producing short films/field reports for the broadcasts. Students will be responsible for learning in a variety of ways: the production of television broadcasts and segments using high end technical equipment such as digital cameras, microphones, and industry standard editing software

Multimedia II - Video Production (Post Production/Film Editing) STEM (T/E)
Course #: 31000
Semester: .5 Elective Credit
Grades: 9-12
Fees: $35.00
Prerequisite: Students must earn a grade of C or higher in Filmmaking I or get teacher approval.
This course will focus on post production techniques using industry standard video production tools. Students will learn the basics of After Effects as well as Adobe Premiere to create and refine creative, student driven projects.

Literature of Film I (Introduction to Film Analysis)
Course #: 70745
Semester: .5 Elective Credit
Grades: 10-12
During this semester elective course, students will learn the basics of what goes into making a film: photography, mise-en scene (composition), movement, editing, and sound. With this basis of knowledge students will view and analyze various film clips and entire films that exemplify quality filmmaking. Students will discuss and analyze (both orally and in writing) their interpretations of the films by coupling their understanding of literary analysis (character development, theme, symbolism, etc.) with their understanding of film terminology.

Literature of Film II (Introduction to Film Theory)
Course #: 70747
Semester: .5 Elective Credit
Grades: 10-12
Prerequisite: Must have a C or higher in Literature of Film I
This advanced film class will focus on film theories including auteur theory and genre theory. Building off of the knowledge gained in Literature of Film I, students will discuss (both orally and in writing) how the theories affect our interpretation and appreciation of films. In addition, students will research the Production Code and its effect on film ratings, directors and studio films and how we still see lasting effects of the regulations passed in the 1930s. Finally, students will learn about and review films utilizing an understanding of Film Rhetoric.

CTE Prod & Managerial Arts WBL (Internship) - STEM (T/E)

Course # 79033999S1 / 79033999S2

Semester: .5 Elective Credit

Grade: 11-12

Prerequisites: Current or past enrollment in CTE course in Film Studies and Video Production pathway, application, teacher approval, and reliable transportation.

Students build on prior knowledge and skills in the program of study to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education.

A CTE internship allows students to explore a career of interest prior to leaving high school and entering a college or certification program related to the career. The experience provides an opportunity for students to learn from and network with professionals in the field. Students will evaluate their strengths and weaknesses and acquire information to make wise future academic and employment decisions. The internship must be unpaid and a minimum of 40 hours must be completed to receive credit.

CTE Credit-for-Work - STEM (T/E)

Course #: 49827S1 / 49827S2

Semester: .5 Elective Credit

Grades: 11-12

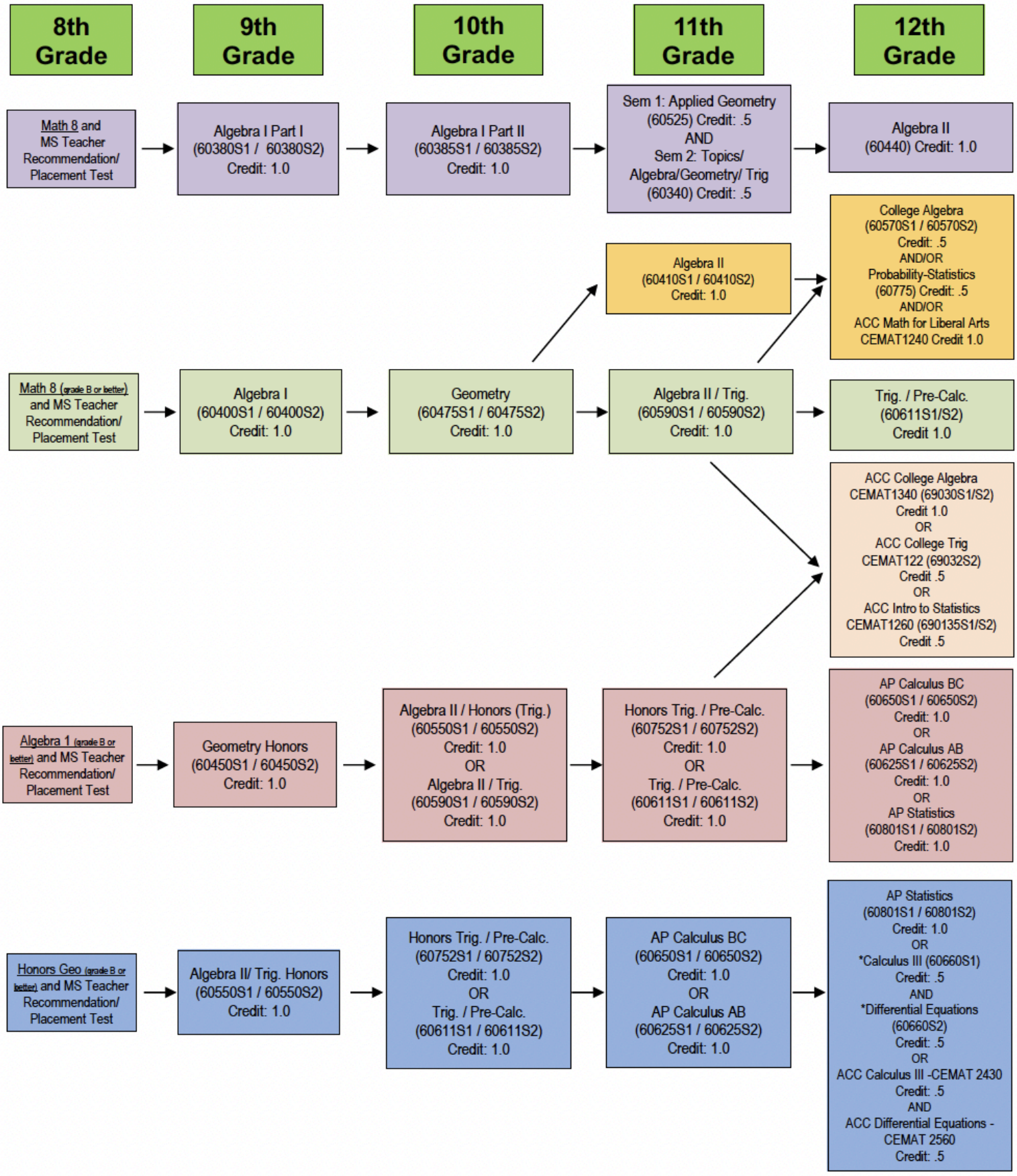
Prerequisites: Current or past enrollment in CTE course Film Studies and Video Production, reliable transportation, and a confirmed place of employment by the 10th day of the semester.

CTE Credit-for-Work allows students to receive school credit for working in a paid job related to this particular CTE pathway. Students must find their own employment, remain in good standing at their job, and work for a minimum of 120 hours to receive credit.

Math

Department Chairs: MacKenzie Boeckmann and Katie Allison

Mountain Vista High School Math Course Flowchart



- Three years of Mathematics are required for graduation from DCSD High Schools.
- Four years of Mathematics are required to be admitted to a four year college in Colorado.

Updated 10/28/2024

Algebra 1 Part 1
Course #: 60380S1 / 60380S2
Year: 1.0 Mathematics Credit*
Grades: 9-10
Prerequisite: Teacher recommendation.
Fees: Graphing calculator (TI-84+ or TI-83+) highly recommended. Online textbook/workbook fee may apply.
**Counts as only .5 credit under HEAR Guidelines*
This course requires a two-year commitment from the student. Completion of both Algebra I Part 1 and Algebra I Part 2 will count as one credit for CCHE and NCAA requirements.
In this year-long course, students study the first half of Algebra I and are expected to complete the course by taking Algebra I Part 2 the following year. Students (1) review basic computational skills; (2) begin working with variables to simplify algebraic expressions; (3) solve linear equations; (4) study real numbers, polynomials, and graphing. Organizational and study skills are emphasized.

Algebra 1 Part 2
Course #: 60385S1 / 60385S2
Year: 1.0 Mathematics Credit*
Grades: 10-11
Prerequisite: Algebra I Part 1 and/or teacher recommendation.
Fees: Graphing calculator (TI-84+ or TI-83+) highly recommended. Online textbook/workbook fee may apply.
**Counts as only .5 credit under HEAR Guidelines*
Successful completion of both Algebra I Part 1 and Part 2 will fulfill the Algebra I graduation requirement. In addition, completion of both Algebra I Part 1 and Algebra I Part 2 will count as one credit for CCHE and NCAA requirements.
In this year-long course, students study the second half of Algebra I. Students (1) continuing work with variables and real numbers; (2) deepen their understanding of linear equations and inequalities, both algebraically and graphically; (3) solve quadratic equations; graph quadratic functions; (4) begin factoring; (5) explore polynomials and radicals.

Algebra I STEM
Course #: 60400S1 / 60400S2
Year: 1.0 Mathematics Credit
Grades: 9-11
Prerequisite: Grade of B or better in Math 8 (8th grade math) and teacher recommendation.
Fees: Graphing calculator (TI-84+ or TI-83+) highly recommended . Online textbook/workbook fee may apply.
*Meets HEAR Guidelines
Students will master the following critical areas: (1) interpreting linear, quadratic, and exponential functions given graphically, numerically, symbolically, and verbally, and translate between representations; (2) using linear models to describe relationships between quantities and analyze the appropriateness of linear models; (3) creating and solving linear equations, inequalities, and systems of equations; (4) using the law of exponents, graphing of exponential functions including modeling growth and decay; (5) solving quadratic equations; graphing of quadratic functions; comparing the key characteristics of quadratic functions to those of linear and exponential functions.

Applied Geometry
Course #: 60525
Year: .5 Mathematics Credit* (offered first semester only)
Grades: 10-12
Prerequisite: Algebra I or equivalent. Teacher recommendation.
Fees: Graphing calculator (TI-83+) highly recommended. Online textbook/workbook fee may apply.
*May meet HEAR Guidelines depending on the level of classes taken following it.
**Does not meet NCAA requirements*
The focus of this course is geometric foundations, measurement, and applications. Students taking this course will use a variety of tools and techniques to communicate the reasoning involved in solving problems.

Topics/Algebra/Geometry/Trig
Course #: 60340S2
Year: .5 Mathematics Credit* (offered second semester only)
Grades: 10-12
Prerequisite: Grade of C or better in Applied Geometry and teacher recommendation .
Fees: Graphing calculator (TI-84+ or TI-83+) highly recommended. Online textbook/workbook fee may apply.
*May meet HEAR Guidelines depending on the level of classes taken following it.
**Does not meet NCAA requirements*
This course is an extension of algebra and applied geometry, and will include basic concepts of trigonometry. Students will also develop test-taking strategies.

Geometry STEM
Course #: 60475S1 / 60475S2
Year: 1.0 Mathematics Credit
Grades: 9-11
Prerequisite: Grade of C or better in Algebra I and teacher recommendation.
Fees: Graphing calculator (TI-84+ or TI-83+) highly recommended. Online textbook/workbook fee may apply.
*Meets HEAR Guidelines
Students will master the following critical areas: (1) analyses of transformations and formal constructions to prove and use conjectures about congruent polygons; (2) analysis of transformations to prove and use conjectures about polygon similarity and extend to trigonometry; (3) analytic geometry that connect algebra and geometry including measurement contexts and the Pythagorean Theorem; (4) prove basic theorems about circles, chords, secants, and tangents and using the Cartesian coordinate system to explore circles and parabolas; (5) interpret probabilities to make informed decisions.

Honors Geometry STEM
Course #: 899201S1 / 899201S2
Year: 1.0 Mathematics Credit (0.5 weighted)
Grades: 9
Prerequisite: Grade of B or better in 8th Grade Algebra I and teacher recommendation.
Fees: Graphing calculator (TI-84+ or TI-83+) highly recommended. Online textbook/assignment portal fee may apply.
*Meets HEAR Guidelines
This course is designed to prepare students for AP (Advanced Placement). Students will be expected to successfully investigate and perform higher cognitive demand tasks that maintain the complexity of the discipline. Students will be exposed to additional topics, and must make a commitment to put forth the required effort in order to move from acquisition to application of knowledge at a faster pace, with greater depth, and increasing complexity. Students will master the following critical areas: (1) analyses of transformations and formal constructions to prove and use conjectures about congruent polygons; (2) analysis of transformations to prove and use conjectures about polygon similarity and extend to trigonometry; (3) analytic geometry that connect algebra and geometry including measurement contexts and the Pythagorean Theorem; (4) prove basic theorems about circles, chords, secants, and tangents and using the Cartesian coordinate system to explore circles and parabolas; (5) interpret probabilities to make informed decisions.

Algebra II STEM
Course #: 60440S1 / 60440S2
Year: 1.0 Mathematics Credit
Grades: 11-12
Prerequisite: Grade of C or better in Applied Geometry and Topics, and teacher recommendation.
Fees: Graphing calculator (TI-84+ or TI-83+) highly recommended. Online textbook/assignment portal fee may apply.
*Meets HEAR Guidelines
Algebra II is designed to follow Applied Geometry and Topics. Algebra II expands and clarifies the concepts introduced in Algebra I and Geometry. This course prepares students for college entrance exams and gives students a well-rounded examination of higher-level mathematics. Topics include linear and quadratic functions and systems of equations, rational and exponential functions, polynomials, factoring, logarithms, and basic probability and statistics.

Algebra II/Trig STEM
Course #: 60590S1 / 60590S2
Year: 1.0 Mathematics Credit
Grades: 10-12
Prerequisite: Grade of C or better in Geometry and teacher recommendation.
Fees: Graphing calculator (TI-84+ or TI-83+) highly recommended. Online textbook/assignment portal fee may apply.
*Meets HEAR Guidelines
Students will master the following critical areas: (1) using properties, structure, and graphing of polynomial, rational and radical expressions to solve equations and analyze relationships; (2) model periodic functions using trigonometry and explore trigonometric identities; (3) synthesize and generalize understanding of functions expanding to include complex number solutions; (4) solve, graph, and analyze exponential and logarithmic functions and equations and use these functions to model the world; (5) making inferences and drawing conclusions based on analysis of data.

Honors Algebra II/Trig STEM
Course #: 899202S1 / 899202S2
Year: 1.0 Mathematics Credit (0.5 weighted)
Grades: 9-10
Prerequisite: Grade of B or better in both Algebra 1 and Geometry Honors and teacher recommendation.
Fees: Graphing calculator (TI-84+ or TI-83+) highly recommended. Online textbook/assignment portal fee may apply.
*Meets HEAR Guidelines
This course is designed to prepare students for AP (Advanced Placement) courses. Students will be expected to successfully investigate and perform higher cognitive demand tasks that maintain the complexity of the discipline. Students will be exposed to additional topics, and must make a commitment to put forth the required effort in order to move from acquisition to application of knowledge at a faster pace, with greater depth, and increasing complexity. Students will master the following critical areas; (1) using properties, structure, and graphing of polynomial, rational and radical expressions to solve equations and analyze relationships; (2) model periodic functions using trigonometry and explore trigonometric identities; (3) synthesize and generalize understanding of functions expanding to include complex number solutions; (4) solve, graph, and analyze exponential and logarithmic functions and equations and use these functions to model the world; (5) making inferences and drawing conclusions based on analysis of data.

Trig/PreCalc STEM
Course #: 60611S1 / 60611S2
Year: 1.0 Mathematics Credit
Grades: 11-12
Prerequisite: Grade of C or better in Algebra II/Trig and teacher recommendation.
Fees: Graphing calculator (TI-84+ or TI-83+) highly recommended. Online textbook/assignment portal fee may apply.
*Meets HEAR Guidelines
Students will (1) continue their exploration of functions focusing on rational, logarithmic, and trigonometric functions; (2) master matrices, trigonometric identities, vectors, and complex numbers; (3) explore polar and parametric equations, sequences and series, and conic sections; (4) examine limits and their properties. Successful completion of this course prepares students for AP Calculus AB.

Honors Trig / PreCalc STEM
Course #: 899205S1 / 899205S2
Year: 1.0 Mathematics Credit (0.5 weighted)
Grades: 10-12
Prerequisite: Grade of B or better in Honors Algebra 2/Trig and teacher recommendation.
Fees: Graphing calculator (TI-84+ or TI-83+) highly recommended. Online textbook/assignment portal fee may apply.
*Meets HEAR Guidelines
This course is designed to prepare students for AP (Advanced Placement) courses. Students will be expected to successfully investigate and perform higher cognitive demand tasks that maintain the complexity of the discipline. Students will be exposed to additional topics, and must make a commitment to put forth the required effort in order to move from acquisition to application of knowledge at a faster pace, with greater depth, and increasing complexity. Students will (1) continue their exploration of functions focusing on rational, logarithmic, and trigonometric functions; (2) master matrices, conic sections, advanced probability, trigonometric identities, vectors and complex numbers; (3) explore polar and parametric equations, sequences and series; (4) examine limits and their properties; (5) and compute derivatives of polynomials. This course includes the elements of Calculus that prepares students for AP Calculus BC.

College Algebra
Course #: 60570S1
Semester: 0.5 Mathematics Credit
Grades: 11-12
Prerequisite: Grade of C or better in Algebra II and teacher recommendation. This course is not intended for students who have successfully completed Algebra 2/ Trig or Trig/PreCalculus.
Fees: Graphing Calculator (TI-84+ or TI-83+). Online textbook/assignment portal fee may apply.
*Meets HEAR Guidelines
College Algebra is a semester-long extension of topics from Algebra II or Algebra II/Trig. As a semester course, it is designed for those students who want another course in math but do not feel they are quite prepared for the pace and rigor of Trig/Precalculus. In this course students study algebraic functions and their graphs (linear, quadratic, cubic, exponential, logarithmic, and absolute value). Other topics may include series and sequences, conic sections, matrices, probability and statistics.

Probability-Statistics
Course #: 60775
Semester: 0.5 Mathematics Credit
Grades: 11-12
Prerequisite: Grade of C or better in Algebra II and teacher recommendation. This course is not intended for students who have successfully completed Algebra 2/Trig or Trig/PreCalculus.
Fees: Graphing calculator (TI-84+ or TI-83+) highly recommended. Online textbook/assignment portal fee may apply.
*Meets HEAR Guidelines
As a semester course, it is designed for those students who want another course in math but do not feel they are quite prepared for the pace and rigor of Trig/Precalculus. In this course students will study topics in probability and statistics including experimental design and presentation and interpretation of data.

***AP Calculus AB** **STEM**
Course #: 60625S1 / 60625S2
Year: 1.0 Mathematics Credit (1.0 weighted)
Grades: 11-12
Prerequisite: Grade of C or better in Honors Pre-Calculus; or a grade of C or better in Trig./Precalculus and teacher recommendation.
Fees: AP Exam fees and books. Graphing calculator is highly recommended and it is required on the AP Calculus Exam. Online textbook/assignment portal fee may apply.
*Meets HEAR Guidelines
*Graduation Competency Eligible-A score of 2 or higher on the AP exam in this course will satisfy the graduation competency requirement for math.

AP Calculus AB is an introductory college-level calculus course. Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and

verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions.

***AP Calculus BC STEM**
Course #: 60650S1 / 60650S2
Year: 1.0 Mathematics Credit (1.0 weighted)
Grades: 11-12
Prerequisite: Grade of B or better in Honors Trig./Pre-Calculus and teacher recommendation.
Fees: AP Exam fees and books. Graphing calculator is highly recommended and it is required on the AP Calculus Exam. Online textbook/assignment portal fee may apply.
*Meets HEAR Guidelines
*Graduation Competency Eligible-A score of 2 or higher on the AP exam in this course will satisfy the graduation competency requirement for math.
AP Calculus BC is an introductory college-level calculus course. Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions.

***AP Statistics STEM**
Course #: 60801S1 / 60801S2
Year: 1.0 Mathematics Credit (1.0 weighted)
Grade: 11-12
Prerequisite: Grade of C or better in Trig/Precalculus and teacher recommendation.
Fees: AP Exam fees and books. Graphing calculator (TI-84+) required on the AP Statistics exam. Online textbook/assignment portal fee may apply.
*Meets HEAR Guidelines
*Graduation Competency Eligible-A score of 2 or higher on the AP exam in this course will satisfy the graduation competency requirement for math.
Advanced Placement® Statistics is designed around a national framework (designed by the College Entrance Examination Board) to prepare students to take the AP Statistics examination in May for possible college credit.
AP Statistics includes: (1) descriptive statistics; (2) designing and implementing a study; (3) inferential statistics; (4) and probability theory and simulation. Activities in the course will involve using research, using simulation activities to represent different statistical distributions, designing and conducting a research study, and collecting experimental data that has a useful or interesting purpose for a certain population. A considerable amount of reading and writing will be expected of students in this math course.

***Calculus III STEM**
Course #: 60660S1
Semester: 0.5 Mathematics Credit (1.0 weighted)
Grades: 11-12
Prerequisite: Successful completion of AP Calculus BC and teacher recommendation.
Fees: Graphing calculator is highly recommended. Online textbook/assignment portal fee may apply.

This semester-long course represents the continuation of the calculus sequence. It is a systematic approach to the understanding of multivariable calculus. Topics include: vectors, vector-valued functions, and multivariable calculus including partial derivatives, multiple integrals, line integrals and their applications.

***Differential Equations STEM**
Course #: 60661S2
Semester: 0.5 Mathematics Credit *(weighted)*
Grades: 11-12
Prerequisite: Successful completion of AP Calculus BC and teacher recommendation.
Fees: Graphing calculator is highly recommended. Online textbook/assignment portal fee may apply.
Differential equations are widely used as a tool for modeling diverse phenomena ranging from population growth to elementary particles. Topics include first order differential equations, second order differential equation, higher order differential equations, systems of differential equations, Laplace transforms, series methods, and approximations.

ACC COLLEGE READY CLASSES

Students will create a "transcript" at/with Arapahoe County College (ACC). Credits will transfer to a four-year college, if the receiving college accepts credits from ACC. Students enrolled in this course must be concurrently enrolled in ACC.

Graduation Competency Eligible: A passing grade in any of the following ACC concurrent enrollment MAT courses will satisfy the graduation competency requirement for math.

ACC-MAT 1240 Math for Liberal Arts: GT-MA1 STEM
Course #: 69031
MVHS Semester: 1.0 Mathematics Credit
ACC Credit: 4 Credits
Grades: 12
Prerequisite: Successful completion of high school Algebra II with B or better and 3.0+ cumulative GPA. ACT Math score ≥ 19 OR SAT Math score ≥ 500 OR Accuplacer score of 240+ in Quantitative Reasoning, Alg, & Stats, OR Accuplacer score of 245+ in Advanced Algebra and Functions
Fees: $15.00 + Online textbook/assignment portal fee may apply.
Develops mathematical and problem-solving skills. Content is selected to highlight connections between mathematics and the society in which we live. Topics include set theory and logic, mathematical modeling, probability and statistical methods, financial math (loans and investments), and consumer mathematics.

ACC-MAT 1340 College Algebra: GT-MA1 STEM
Course #: 69030
MVHS Semester: 1.0 Mathematics Credit
ACC Credit: 4 Credits
Grades: 12
Prerequisite: Successful completion of high school Algebra II with B or better and 3.0+ cumulative GPA. ACT Math score ≥ 23 OR SAT Math score ≥ 560 OR Accuplacer score of 245 or above in Advanced Algebra and Functions

Fees: $15.00 + Textbook fee and online assignment portal
Topics include: a brief review of intermediate algebra, equations, and inequalities, functions and their graphs, exponential and logarithmic functions, linear and nonlinear systems, selections of topics among graphing of the conic sections, introduction to sequences and series and permutations and combinations, the binomial theorem and theory of equations.

ACC-MAT 1420 College Trigonometry: GT-MA1 STEM
Course #: 69032
MVHS Semester: 0.5 Mathematics Credit
ACC Credit: 3 Credits
Grades: 12
Prerequisite: Successful completion of ACC College Algebra with C or better. ACT Math score ≥ 25 OR SAT math score ≥ 620 OR Accuplacer score of 280 or above in Advance Algebra and Functions.
Fees: $15.00 + Online textbook/assignment portal fee may apply.
Topics include: trigonometric functions (with graphs and inverse functions), identities and equations, solutions of triangles, complex numbers, and other topics as time permits. This is a traditional prerequisite course to the calculus sequence.

ACC-MAT 1260 Intro Statistics: GT-MA1 STEM
Course #: 690135
MVHS Semester: 0.5 Mathematics Credit (1.0 weighted)
ACC Credit: 3 Credits
Grades: 12
Prerequisite: Successful completion of high school Algebra II with B or better and 3.0+ cumulative GPA. ACT Math score ≥ 19 OR SAT Math score ≥ 500 OR Accuplacer score of 240+ in Quantitative Reasoning, Alg, & Stats, OR Accuplacer score of 245+ in Advanced Algebra and Functions
Fees: $15.00 + Online textbook/assignment portal fee may apply.
This course introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature.

ACC-MAT 2430 Calculus III: GT-MA1 STEM
Course #: 69225
MVHS Semester: 1.0 Mathematics Credit (1.0 weighted)
ACC Credit: 4 Credits
Grades: 11 or 12
Prerequisite: AP Calculus BC exam score of 4 or 5 and 3.0 GPA and teacher recommendation.
Fees: $15.00 + Online textbook/assignment portal fee may apply.
This semester-long course represents the continuation of the calculus sequence. It is a systematic approach to the understanding of multivariable calculus. Topics include: vectors, vector-valued functions, and multivariable calculus including partial derivatives, multiple integrals, line integrals and their applications.

ACC-MAT 2560 Differential Equations: GT-MA1 STEM

Course #: 69227
MVHS Semester: 0.5 Mathematics Credit (1.0 weighted)
ACC Credit: 3 Credits
Grades: 11 or 12
Prerequisite: AP Calculus BC exam score of 4 or 5 and 3.0 GPA and teacher recommendation.
Fees: $15.00 + Online textbook/assignment portal fee may apply.
Differential equations are widely used as a tool for modeling diverse phenomena ranging from population growth to elementary particles. Topics include first order differential equations, second order differential equation, higher order differential equations, systems of differential equations, Laplace transforms, series methods, and approximations.

Music

Department Chair: Michael Wright

Guitar (Beginning)
Course #: 70487
Semester: .5 Fine Art Credit
Grades: 9-12
Prerequisite: Consent of Instructor
Fees: Purchase of book
Materials needed: Your own acoustic guitar (no electric guitars).
This course is designed for the student with little or no guitar experience. Basic guitar skills including reading music, chords, and tablature will be taught. This course will also introduce various guitar styles such as folk, classical, blues and rock. Students must provide their own acoustic guitar. Electric guitars will not be used in this class.

Guitar II
Course #: 70488
Semester: .5 Fine Art Credit
Grades: 9-12
Prerequisite: Successful completion of Guitar, audition, OR consent of the instructor.
Fees: Purchase of book
Materials needed: Your own acoustic guitar (no electric guitars).
This guitar class is intended for students already capable of note playing and chord playing. Students will build upon basic knowledge learned in Beginning Guitar or private lessons by exploring specific guitar styles and techniques, more advanced chord shapes, and small group guitar playing. Students must provide their own acoustic guitar. Admittance into this class is dependent on instructor approval.

Piano I
Course #: 70485
Semester: .5 Fine Art Credit
Grades: 9-12
Fees: Purchase of book
This course is designed for the student with little or no piano keyboard experience. Basic musical skills like reading music, proper keyboard fingering, notes, and chords will be taught. The course will also introduce various musical styles, like classical, jazz, rock, and blues.

Piano II
Course #: 70486
Semester: .5 Fine Art Credit
Grades: 9-12
Prerequisite: Piano I, audition, or consent of the instructor.
Fees: Purchase of book
This keyboard class is intended for students already capable of note playing and chord playing. Students will build upon basic knowledge learned in Beginning Keyboard or private lessons by exploring specific keyboard styles and techniques, more advanced musical structures, and small group playing. Admittance into this class is dependent on instructor approval.

Music Theory (Composition)
Course#: 70660
Semester: .5 Fine Art Credit
Grades: 9-12
Fees: Purchase of book
This class is meant for anyone wishing to develop a deeper understanding of the mechanics of music. Through the exploration of song writing and simple composition, the students will study the fundamentals of music such as rhythm, melody, harmony, form, structure, and instrumentation.

Music Comp/Midi ***STEM***
Course#: 70680
Semester: .5 Fine Art Credit
Grades: 11-12
Fees: Purchase of book
This class will expose students to the fascinating and creative world of composition through technology. In addition students will explore basic theory, original song composition, music history and appreciation of diverse music styles.

***AP Music Theory**
Course#: 70659S1 / 70659S2
Year: 1.0 Fine Art Credit (1.0 weighted)
Grades: 11-12
Prerequisite: Consent of the Instructor
Fees: AP Exam fees and books.
AP Music Theory is an introductory college-level music theory course. Students cultivate their understanding of music theory through analyzing performed and notated music as they explore concepts like pitch, rhythm, form, and musical design.

Wind Ensemble (Audition Required)
Course #: 70300S1 / 70300S2
Year: 1.0 Fine Art Credit
Grades: 9-12
Prerequisite: Audition required.
Fees: Instrument rental of $50.00/Semester for school owned instruments. Percussion use fee of $60.00/semester. Specific concert attire required.
The Wind Ensemble is composed of woodwinds and brass. Students will study and prepare advanced music covering a variety of styles and time periods. Students will perform high-quality literature and continue to develop technique and musical expression. The Wind Ensemble will perform several times per year. All performances are required.

Symphonic Band
Course #: 70325S1 / 70325S2

Year: 1.0 Fine Art Credit
Grades: 9-12
Fees: Instrument rental of $50.00/Semester for school owned instruments. Percussion use fee of $60.00 per semester. Specific concert attire required.
The Symphonic Band is composed of woodwinds and brass. Students will study and prepare music covering a variety of styles and time periods. Students will perform high-quality literature and continue to develop technique and musical expression. The band will perform several times per year. All performances are required.

Orchestra (Beginning Strings)
Course #: 70460S1 / 70460S2
Year: 1.0 Fine Art Credit
Grades: 9-12
Fees: Optional instrument rental fee ($50 per semester) and mandatory concert attire purchase $35 - $50.
Orchestra is a beginning class for Violin, Viola, String Bass, and Harp musicians, experienced and inexperienced who wish to study and perform in the area of Orchestral music. This course is open to all freshmen, sophomores, juniors and seniors. Students will study proper techniques for quality sound production on their instrument as well as music from all major style periods. Select string instruments are available for rent. Students will perform in several required concerts per year. Out of school performances will be required.

Orchestra/String
Course #: 70465S1 / 70465S2
Year: 1.0 Fine Art Credit
Grades: 9-12
Fees: Instrument rental of $50.00/Semester for school-owned instruments. Specific concert attire required.
This ensemble is designed for the traditional string orchestra: violin, viola, cello, and bass. Students will be exposed to a variety of music including all styles and time periods. The Orchestra will perform several times per year. All performances are required.

Chamber Orchestra (Audition Required)
Course #: 70461S1 / 70461S2
Year: 1.0 Fine Art Credit
Grades: 9-12
Prerequisite: Audition required.
Fees: Instrument rental of $50.00/Semester for school owned instruments. Specific concert attire required.
The Chamber Orchestra will study and prepare advanced orchestral music covering a variety of styles and time periods. Students will perform high-quality literature and continue to develop technique and musical expression. The Chamber Orchestra will perform several times per year. All performances are required.

Jazz Ensemble I (Audition Required)
Course #: 70375S1 / 70375S2
Year: 1.0 Fine Art Credit
Grades: 9-12
Prerequisite: Audition required. Students are required to be in a concert ensemble in addition to Jazz Ensemble.
Fees: Instrument rental of $50.00/Semester for school owned instruments.

This course will focus on the study and performance of various styles of jazz with an emphasis on improvisation. Participation in all performances is required. Woodwind, brass, and percussion must also enroll in either Wind Ensemble or Symphonic Band.

Percussion Techniques
Course#: 70400S1 / 70400S2
Year: 1.0 Fine Art Credit
Grades: 9-12
Fees: $60.00 instrument usage fee per semester, book cost (varies), concert attire (costs vary).
This year-long course is for students to develop and enhance skills in all percussion instruments. Students of percussion techniques will learn the music for their respective bands (Symphonic Band and Wind Ensemble) as well. Lesson objectives will be focused on rudiments, note reading, pitch identification and proper playing techniques. Students will be required to attend out-of-school day rehearsals and performances of their respective group. Students will also explore percussion ensemble repertoire.

Treble Choir
Course #: 70512S1 / 70512S2
Year: 1.0 Fine Art Credit
Grade: 9
Fees: Performance attire (cost to be determined).
Students should have a strong interest in vocal music. This women's choir is open to anyone in grade 9. Fundamentals of good vocal and choral performance will be covered. Literature will represent carious styles and periods. Participation in all performances and dress rehearsals is required.

Voice
Course #: 70640S1 / 70640S2
Year: .5 Fine Art Credit
Grades: 9-12
Students should have a strong interest in developing vocal music talents. The course is open to any student who is interested in developing his or her vocal technique and ability to communicate effectively and efficiently with the voice. The basics of good vocal technique will be explored through reading, vocalizing and singing a wide variety of vocal solos. Students may be asked to produce a brief paper covering some aspects of vocal technique and participate in a solo recital.

Concert Choir
Course #: 70500S1 / 70500S2
Year: 1.0 Fine Art Credit
Grades: 10-12
Fees: Performance attire (cost to be determined).
Students should have a strong interest in vocal music. This women's choir will explore a large variety of choral literature. The fundamentals of proper vocal technique, stylistic practices, and music theory are covered. Participation in all performances and dress rehearsals is required.

Goldtones (Audition Required)
Course #: 70555S1 / 70555S2
Year: 1.0 Fine Art Credit
Grades: 10-12
Prerequisite: Audition or permission of instructor.
Fees: Performance attire (cost to be determined).
Students should have a good voice quality, be able to read music and have a strong interest in vocal music, as well as an interest in a cappella music. This select male and female group is composed of voices selected by audition on a basis of classroom behavior, voice quality, music reading skills, and interest in the performance of all genres of music. All performances and dress rehearsals are required.

Women's Jazz Choir (Audition Required)
Course #: 70616S1 / 70616S2
Year: 1.0 Fine Art Credit
Grades: 10-12
Prerequisite: Audition or permission of instructor.
Fees: Performance attire (cost to be determined).
Sophomores, Juniors and Seniors may audition for this advanced choir. The class explores various styles of jazz and acapella singing. There is also a strong focus on stage presence and performance. Sight reading, rhythmic comprehension and stylistic singing skills are required.

Tenor Bass Choir (Men's Select Choir)
Course #: 70565S1 / 70565S2
Year: 1.0 Fine Art Credit
Grades: 9-12
Fees: Performance attire (cost to be determined).
Students should have a strong interest in vocal music. This men's choir will explore a large variety of choral literature. The fundamentals of good vocal and choral performance will be covered. Participation in concerts and dress rehearsals is required.

Physical Education

Department Chair: Keri Atchison

Adventure Experience
Course #: 75575
Semester: .5 Physical Education Credit
Grades: 10-12
Prerequisite: Not available to 9th graders. This is not a dress-out class BUT students are required to wear gym shoes everyday and jeans are not allowed during the 6 week climbing unit! (Students should NOT sign up for this class if they have an extreme fear of heights and are not ready to work towards overcoming the fear).
Fees: $20 plus one field trip/bus fee.
Adventure Experience at MVHS includes practical skills students will need to enjoy the great state in which we live. Colorado offers a variety of outdoor adventure activities, and this program will introduce students to several of them! Students will learn Wilderness First Aid, basic camping and survival skills, paddle sports basics, outdoor gear use and maintenance, and compass orienteering. Additional skills taught in this class include how to change a car tire, bicycle maintenance, knot tying, and yes, indoor rock climbing on the ropes challenge course in the gym! This class has a variety of things to offer the athlete, or the non-athlete…Students will be challenged, work collaboratively on a team, and learn several skills they can apply immediately as they explore the Colorado outdoors. Adventure awaits…so try something new!

Adventure Leadership
Course #: 75585
Semester: .5 Physical Education Credit
Grades: 11-12
Prerequisite: Adventure Experience. This is not a dress out class BUT students are required to wear gym shoes everyday and jeans are not allowed during the 6 week climbing unit! (Students should NOT sign up for this class if they have an extreme fear of heights and are not ready to work towards overcoming that fear).
Fees: $20 plus two field trip/bus fees.
Adventure II allows students to not only expand upon their climbing skills, it prepares students for future ropes course facilitation, teaching, advanced orienteering and geocaching. A CPR/First Aid certification from the American Heart Association is included in the curriculum. This will aid students as they apply for after school jobs or babysitting. Adventure Leadership students also get the amazing opportunity to travel weekly to local elementary schools to help facilitate team building with primary students during their P.E. classes. Curriculum includes basic mountain biking skills, and trail trekking around the open space trail system behind MVHS. (Having a mountain bike is not required for this course, but it would be beneficial to have access to one during our warm weather-outside days and bike maintenance sessions). Outdoor rock climbing becomes the focus during the warmer months. Students will learn anchor building, rappelling, ropes rescue techniques and self-rescue maneuvers. In the spring, Adventure Leadership students will spend class time preparing for the Annual MV Adventure Race held in May at Chatfield Reservoir. This team competition includes biking around the lake, crossing the lake in a raft, and running to Geocache points for clues. Only seniors will be able to compete in the race, however, underclassmen will be thoroughly involved with setting and attempting the course and race-day organization.

Team Sports
Course #: 75302 (Fall) /75303 (Spring)

Semester: .5 Physical Education Credit (may be repeated for credit)
Grades: 9-12
This course will incorporate the components of fitness (cardiovascular, muscular endurance, muscular strength and flexibility) in daily fitness routines. Along with daily fitness, students will be evaluated on their demonstration of intermediate and advanced skills, sportsmanship, strategy, game rules and team interaction. The overall goal is to supply students with the knowledge and skills of each team sport, so that they may enjoy life-long appreciation and participation after high school. There are a variety of sports offered throughout the semester. The outdoor activities may include soccer, flag football, softball and ultimate Frisbee. The indoor activities may include volleyball, basketball, floor hockey and team handball.
Note: only one Team Sports and Fitness class allowed per semester.

Individual Sports
Course #: 75313 (Fall) /75314 (Spring)
Semester: .5 Physical Education Credit (may be repeated for credit)
Grades: 9-12
Fees: $75 fee for bowling and racquetball trips.
This course is designed for students to learn lifetime fitness skills such as but not limited to tennis, badminton, pickleball, golf and archery. Classes will also take 12 field trips during block class periods and learn how to bowl at AMF Littleton Lanes along with going to Northridge Rec Center to learn how to play racquetball. Students will also work towards stronger cardiovascular endurance throughout the semester.

Athletic Training I
Course #: 75330
Semester: .5 Physical Education Credit
Grades: 10-12
Fees: $30
This course will prepare students to meet emergency and non-emergency athletic injuries with knowledge and skill. Accident prevention, first-aid care, and anatomical terms of injury evaluation procedures are included. This class will be taught through lectures, class discussion, guest speakers, practical application of skills, practice labs, and problem solving.

Strength/Conditioning
Course #: 75350 (Fall) / 75351 (Spring)
Semester: .5 Physical Education Credit (may be repeated for credit)
Grades: 9-12
Fees: $20.00
This class is an intensive course for students who desire to develop explosive muscular strength as well as cardiovascular and muscular endurance. The focus of the course is to strengthen the major muscle groups as well as develop a high level of fitness through intense plyometric exercises. The core lifts for weight training include bench press, squats, incline press, and hang cleans. The program will also incorporate a speed/agility training program to develop an overall high level of conditioning. While this is not a bodybuilding or "sculpting" class, it is designed to increase muscular mass and overall body strength. Students taking this course should be prepared to be self-starters and work towards self-initiated strength and conditioning goals.

Power Weights
Course #: 75376 (Fall) / 75377 (Spring)
Semester: .5 Physical Education Credit
Grades: 9-12
Prerequisite: Approval from PE Department (Coach Looney)
Fees: $50.00
This advanced strength and conditioning course addresses the specific needs of all students looking to enhance their physical performance. Emphasis will be on the development of core strength in major muscle groups, improving speed and agility, and injury prevention. This is a performance-based course.

Shape Up
Course #: 75322
Semester: .5 Physical Education Credit
Grades: 9-12
Fees: $20.00
This course is designed to help students understand and apply basic fitness concepts that can be utilized throughout a lifetime. Cardiovascular fitness, flexibility, circuit weight training, and cross training principles will be emphasized on a daily basis. Students will work toward personal goals and learn how to design an exercise program that meets their needs.

Dance & Fitness (Beginning Dance)
Course #: 75450
Semester: .5 Physical Education Credit
Grades: 9-12
This course will provide students the opportunity to learn basic fundamentals of Ballet, Jazz/Lyrical/Modern, and Funk dance. Each dance unit will include technique, strengthening and flexibility exercises, choreography and performance.

Broadway Dance
Course #: 70910
Semester: .5 Physical Education Credit
Grades: 9-12
This course is designed to teach the student who is new to dance the basics of a wide variety of stage movements that are utilized in performance situations. Course work will include the following: study of choreographers and choreography from Broadway musicals, video reconstruction, improvisational techniques, jazz, tap, modern and ballet techniques. Students will be required to dress out in clothing appropriate for movement and participate in warm-ups and the dance class. The students will also be required to choreograph their own piece at the end of each unit. This is a performance based class. This class may be repeated for credit.

Advanced Dance

Course #: 75461

Semester: .5 Physical Education Credit

Grades: 9-12

Prerequisite: Successful completion of Dance & Fitness or Broadway Dance.

Fees: $20.00

This course is designed for those students who have a strong background in dance. The dance units will include Ballet, Jazz/Lyrical/Modern, and Funk. Students will have the opportunity to study professional dance choreography and techniques, to choreograph their own dances and to explore the various dance careers available.

Science

Department Chair: Jody Lanterna-Lewis

Mountain Vista High School Science Course Map

The curriculum is based on each student receiving a progression of knowledge and skills throughout his/her high school experience.
All general science and AP science courses are 1.0 credit year-long courses;
elective and CTE Health Science course options are 1.0 credit year-long courses unless indicated with * (0.5 credit semester-long courses).

9th Grade	10th Grade	11th Grade	12th Grade
Applied Biology (with teacher approval)	**Global Science** (with teacher approval)	**Elective Courses**	**Elective Courses**
Biology *(most students will enroll in Biology in 9th grade)*	**Chemistry** *(most students will enroll in Chemistry in 10th grade)*	**Physics** *(most students will enroll in Physics in 11th or 12th grade)*	**Physics** *(most students will enroll in Physics in 11th or 12th grade)*
		and/or	*and/or*
		Advanced Placement (AP) Courses (with prerequisites and teacher approval)	**Advanced Placement (AP) Courses** (with prerequisites and teacher approval)
		and/or	*and/or*
		Elective / CTE Courses (with prerequisites and teacher approval)	**Elective / CTE Courses** (with prerequisites and teacher approval)
Honors Biology (with prerequisites and teacher approval)	**Honors Chemistry** (with prerequisites and teacher approval)	**Physics**	**Physics**
	and (if desired)	*or*	*or*
	AP Physics 1 (with prerequisites and teacher approval)	**AP Physics 1** (with prerequisites and teacher approval)	**AP Physics 1** (with prerequisites and teacher approval)
	and/or	*and/or*	*and/or*
	Advanced Placement (AP) Courses (with prerequisites and teacher approval)	**Advanced Placement (AP) Courses** (with prerequisites and teacher approval)	**Advanced Placement (AP) Courses** (with prerequisites and teacher approval)
	and/or	*and/or*	*and/or*
	Elective / CTE Courses (with prerequisites and teacher approval)	**Elective / CTE Courses** (with prerequisites and teacher approval)	**Elective / CTE Courses** (with prerequisites and teacher approval)

Advanced Placement (AP) Courses:
- AP Biology
- AP Chemistry
- AP Physics 1
- AP Physics 2
- AP Physics C
- AP Environmental Science

Elective Courses:
- Aquatic Biology *
- Astronomy *
- Biotechnology *
- Zoology *

CTE (Career and Technical Education) Health Science Courses:
- CTE Anatomy & Physiology
- CTE Introduction to Health Science *
- CTE Certified Patient Care Technician *
- CTE Medical Forensics *
- CTE Health Science WBL (Work-Based Learning) Internship *
- CTE Credit-for-Work *

Students may move into or out of skills, regular, and/or honors level courses in subsequent years with the consideration and approval of the teachers, the parents, and the counselors.
Regular and accelerated students may concurrently enroll in multiple science courses (in 10th, 11th, and/or 12th grade) with the consideration and approval of the teachers, the parents, and the counselors.

Biology STEM
Course #: 80350S1 / 80350S2
Year: 1.0 Science Credit
Grade: 9
*Meets HEAR Guidelines
Biology is the study of life. Topics to be explored include: Introduction to Biology (Characteristics of Life, Themes of Biology, Homeostasis, Energy, and Evolution); The Chemical Basis of Life (Biochemistry and Biological Molecules); Cell Structure and Function (Cell/Plasma Membrane) and Cellular Organelles; Cellular Transport; Cellular Energy (Photosynthesis and Cellular Respiration); Cellular Reproduction (The Cell Cycle, Mitosis, and Meiosis); DNA; Heredity and Genetics; Evolution and Classification; and Ecology. The course will emphasize experimental design and will require data collection and data analysis.

Honors Biology STEM
Course #: 899300S1 / 899300S2
Year: 1.0 Science Credit (0.5 weighted)
Grades: 9 -10
Prerequisites: Successful completion of Algebra I or As in Math 8, recommendation from previous science teacher, and signed contract
*Meets HEAR Guidelines
Biology is the study of life. Topics to be explored include: Introduction to Biology (Characteristics of Life, Themes of Biology, Homeostasis, Energy, and Evolution); The Chemical Basis of Life (Biochemistry and Biological Molecules); Cell Structure and Function (Cell/Plasma Membrane) and Cellular Organelles; Cellular Transport; Cellular Energy (Photosynthesis and Cellular Respiration); Cellular Reproduction (The Cell Cycle, Mitosis, and Meiosis); DNA; Heredity and Genetics; Evolution and Classification; and Ecology. The course will emphasize experimental design and laboratory experimentation, and will require extensive data collection and thorough data analysis.
***The content of the course is advanced and the pace of the course is accelerated. Increased levels of curricular depth, challenge, and rigor will be achieved through additional laboratory experiences, data analysis, assignments, and projects not required of traditional students. This course is designed for students who have both genuine interest and exceptional ability in science.**

Applied Biology
Course #: 80360S1 / 80360S2
Year: 1.0 Science Credit
Grade: 9
Prerequisites: Referral from previous science teacher
*May Meet HEAR Guidelines
Biology is the study of life. Topics to be explored include: Introduction to Biology (Characteristics of Life, Themes of Biology, Homeostasis, Energy, and Evolution); The Chemical Basis of Life (Biochemistry and Biological Molecules); Cell Structure and Function (Cell/Plasma Membrane) and Cellular Organelles; Cellular Transport; Cellular Energy (Photosynthesis and Cellular Respiration); Cellular Reproduction (The Cell Cycle, Mitosis, and Meiosis); DNA; Heredity and Genetics; Evolution and Classification; and Ecology. ***The materials and activities for the course are designed to be concrete and are adapted for students who have NOT been successful in traditional science classes.**

Global Science
Course #: 80624S1 / 80624S2
Year: 1.0 Science Credit
Grade: 10
Prerequisites: Successful completion of Applied Biology or Biology and referral from previous science teacher.
*Meets HEAR Guidelines
Global Science is an integrated science course combining biological, chemical, physical, and environmental science concepts and focusing on the study of human interaction with the environment. Students will explore basic principles of ecology, including the study of the earth's biomes and the role and impact of human activities on natural systems. Topics may include ecosystem structure and function, overpopulation, resource depletion and management, toxic substances, and the pollution of air, water, and land. Students will examine the interrelationships of the natural world, identify and analyze environmental problems both natural and man-made, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving and/or preventing them.

Chemistry STEM
Course #: 80375S1 / 80375S2
Year: 1.0 Science Credit
Grades: 10-12
Prerequisites: Successful completion of Biology and successful completion of Algebra I with a grade of C or higher; it is recommended that student passes semester 1 Chemistry to continue to semester 2 Chemistry
*Meets HEAR Guidelines
Chemistry covers the broad concepts upon which modern chemistry rests, including the mathematics of science, atomic structure, naming and writing formulas, chemical reactions, stoichiometry, gasses, periodicity, bonding, solutions and concentrations, acids and bases, nuclear chemistry, and thermochemistry. Laboratory work is an essential part of the course, and the course requires extensive data analysis.

Honors Chemistry STEM
Course #: 899302S1 / 899302S2
Year: 1.0 Science Credit (0.5 weighted)
Grades: 10 - 11
Prerequisites: Successful completion of or concurrent enrollment in Honors Biology and recommendation from previous science teacher
*Meets HEAR Guidelines
Honors Chemistry covers the broad concepts upon which modern chemistry rests, including the mathematics of science, atomic structure, naming and writing formulas, chemical reactions, stoichiometry, gasses, periodicity, bonding, thermodynamics, solutions and concentrations, and acids and bases. In addition, Honors Chemistry will address concepts such as redox, nuclear chemistry, biochemistry, and organic chemistry. Laboratory work is an essential part of the course, and the course requires extensive data analysis.
***The content of the course is advanced and the pace of the course is accelerated. Increased levels of curricular depth, challenge, and rigor will be achieved through additional laboratory experiences, data analysis, assignments, and projects not required of traditional students. The course is designed for students who have both genuine interest and exceptional ability in both math and science.**

Physics **STEM**
Course #: 80430S1 / 80430S2
Year: 1.0 Science Credit
Grades: 11-12
Prerequisites: Successful completion of Geometry
*Meets HEAR Guidelines
Physics is a socially constructed laboratory based course in which students model the behavior of the physical world graphically, mathematically, and diagrammatically. Students will participate in the formulation of models that address the behavior of objects relating to Newtonian Mechanics including Motion, Forces, Energy, Momentum, and Waves. Students will employ a wide variety of communication skills, graphing skills, and basic laboratory equipment assembly skills.

CTE Anatomy and Physiology A & B **STEM**
Course #: 79112201 / 79112202 (Must be taken together)
Year: 1.0 Science Credit
Grades: 11-12
Prerequisites: Successful completion of Biology or Honors Biology, and Chemistry or Honors Chemistry
Fees: $20.00, per semester
*Meets HEAR Guidelines
Anatomy and Physiology is an advanced laboratory course designed for students interested in pursuing further study and/or future careers in any area of health, medicine, or biomedical sciences. Students focus on anatomy and physiology (including the structures of the human body, the functions of the body systems, and the interactions between the systems), medical terminology, and human disorders and diseases. Students explore both anatomical and physiological science as well as the health, medical, and biomedical science applications of the science. The first semester of this two-semester course provides a deep exploration of the human body and biological systems. Students expand their knowledge of the body and terminology / phonetic pronunciations used to describe and locate body parts. Students study the systems of the body in depth throughout both semesters, including an overall review of human development and body processes. The course includes infection control and standard precautions, which emphasizes the importance of maintaining health and safety in the healthcare work environment. Additionally, it highlights the latest practices and protocols.

Aquatic Biology **STEM**
Course #: 80475
Semester: 0.5 Science Credit
Grades: 11-12
Prerequisites: Successful completion of Applied Biology, Biology, or Honors Biology
Fees: $10.00
*Meets HEAR Guidelines
Aquatic Biology is a laboratory course to acquaint students with the biology and ecology of freshwater and/or marine environments. Students will study the ecological importance and interrelations of aquatic organisms.

Astronomy STEM
Course #: 80600
Semester: 0.5 Science Credit
Grades: 11-12
Fees: $5.00
*Meets HEAR Guidelines
Astronomy is an introductory survey course that explores the historical and current development of astronomy. Major topics include earth /moon / sun system, the size and scale of the solar system bodies, constellations, and the properties and life cycles of stars. The activities used to teach course content will include some problem solving components requiring a basic understanding of algebra.

CTE Medical Forensics STEM (T/E)
Course #: 79112203
Semester: 0.5 Science Credit
Grades: 11-12
Prerequisites: Successful completion of Biology or Honors Biology
Fees: $10.00
*Meets HEAR Guidelines
Medical Forensics is a semester course designed to create an awareness of the branch of health science relating to medical forensics. This laboratory-based course focuses on introductory skills and assessment in order to develop the ability to identify, analyze, and process logically using deductive reasoning and problem-solving. Medical forensics involves many aspects of health science instruction including laboratory skills and safety, microscopy, toxicology, measurement, physical evidence identification, pathology, anthropology, entomology, psychology, blood spatter analysis, and career exploration.

Survey of Biotech Engineering STEM (T/E)
Course #: 80346
Semester: 0.5 Science Credit
Grades: 11-12
Prerequisites: Successful completion of Biology or Honors Biology and Chemistry or Honors Chemistry
Fees: $35.00
*Meets HEAR Guidelines
Biotechnology is a laboratory science course that allows students to work with DNA and proteins to manufacture products intended to improve the quality of human life. Examples include inserting jellyfish genes into bacteria to make them glow in the dark and amplifying DNA from a crime scene and pool of suspects to help solve crimes. The course exposes students to cutting-edge technologies as well as current and controversial issues in the field. The knowledge and skills gained will benefit students as they venture into many different fields including health sciences, forensics, agriculture, and engineering.

Zoology STEM
Course #: 80500
Semester: 0.5 Science Credit
Grades: 11-12
Prerequisites: Successful completion of Applied Biology, Biology, or Honors Biology
Fees:$25.00
*Meets HEAR Guidelines
Zoology is a laboratory class designed to acquaint students with the biology and classification of members of the animal kingdom. Students will study the vertebrates in the animal kingdom, including their comparative structures and evolutionary relationships.

***AP Biology STEM**
Course #: 80365S1 / 80365S2
Year: 1.0 Science Credit (1.0 weighted)
Grades: 11-12
Prerequisites: Successful completion of Biology or Honors Biology, successful completion of Chemistry or Honors Chemistry, and recommendation from previous science teacher
Fees: Laboratory fee and purchase of textbook required. In addition, there is a fee required to take the AP Exam.
*Meets HEAR Guidelines
AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore topics like evolution, energetics, information storage and transfer, and system interactions.

***AP Environmental Science STEM**
Course #: 80370S1 / 80370S2
Year: 1.0 Science Credit (1.0 weighted)
Grades: 11-12
Prerequisites: Successful completion of Biology or Honors Biology, successful completion of Algebra I, and successful completion of or concurrent enrollment in Chemistry or Honors Chemistry
Fees: Laboratory fee and purchase of textbook required. In addition, there is a fee required to take the AP Exam.
* Meets HEAR Guidelines
Students cultivate their understanding of the interrelationships of the natural world through inquiry-based lab investigations and field work as they explore concepts like the energy transfer, interactions between earth systems, interactions between different species and the environment, and sustainability.

***AP Chemistry STEM**
Course #: 80400S1 / 80400S2
Year: 1.0 Science Credit (1.0 weighted)
Grades: 11-12
Prerequisites: Successful completion of Biology or Honors Biology, successful completion of Chemistry or Honors Chemistry, and recommendation from previous science teacher
Fees: Laboratory fee and purchase of textbook required. In addition, there is a fee required to take the AP Exam.
*Meet HEAR Guidelines

AP Chemistry is an introductory college-level chemistry course. Students cultivate their understanding of chemistry through inquiry-based lab investigations as they explore topics like scale, proportion, and quantity; structure and properties of substances; transformations; and energy.

***AP Physics I: Algebra-Based STEM**
Course #: 80656S1 / 80656S2
Year: 1.0 Science Credit (1.0 weighted)
Grades: 10-12
Prerequisites: Successful completion of Algebra I and recommendation from previous science teacher. Recommended to be in Geometry Honors or Algebra II Honors concurrently.
Fees: Laboratory fee required. In addition, there is a fee required to take the AP Exam.
*Meets HEAR Guidelines
AP Physics 1 is an algebra-based, introductory college-level physics course. Students will cultivate their understanding of physics through classroom study, in-class activity, and hands-on inquiry-based laboratory work. Topics include: Kinematics - both linear and 2-D, Force - including dynamic two body systems, Energy, Momentum, Torque, Rotation, and Simple Harmonic Motion.

***AP Physics 2: Algebra Based STEM**
Course #: 80657S1 / 80657S2
Year: 1.0 Science Credit (1.0 weighted)
Grades: 11-12
Prerequisites: Successful completion of Physics or AP Physics 1, including competencies in Force, Motion, and Energy; and successful completion of Chemistry or Honors Chemistry with competencies in atomic structure, electrical charge conservation, and nucleon identities.
Fees: Laboratory fee and purchase of textbook required. In addition, there is a fee required to take the AP Exam.
*Meets HEAR Guidelines
AP Physics 2 is an algebra-based, introductory college-level physics course. Students will cultivate their understanding of physics through classroom study, in-class activity, and hands-on inquiry-based laboratory work. Topics include: Electrical Charge and Field, Electrical Potential, Circuits, Magnetism, Light (including geometric optics, the wave model, and the photon model), and Nuclear Physics including the standard model.

***AP Physics C: Mechanics STEM**
Course #: 80655S1 / 80655S2
Year: 1.0 Science Credit (1.0 weighted)
Grades: 11-12
Prerequisites: Successful completion of Trigonometry/Precalculus and successful completion of or concurrent enrollment in Calculus AB or Calculus BC
Fees: Laboratory fee and purchase of textbook required. In addition, there is a fee required to take the AP Exam.
*Meets HEAR Guidelines
AP Physics C: Mechanics is a calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in one of the physical sciences or engineering. Students cultivate their understanding of physics through classroom study and activities as well as hands-on laboratory work as they explore concepts like change, force interactions, fields, and conservation.

CTE-Gen Intro to Health Sci A STEM
Course #: 79112101S1
Semester: 0.5 Science Credit
Grades: 10-12
Prerequisites: Successful completion of Biology with a B or better
Fees: $10.00 In addition, there is a fee to take the certification exam.
This semester-long introductory Health Science course provides an overview of the challenging environments and occupations in the healthcare field. This course introduces students to the five pathways that make up the health science cluster (Diagnostic, Therapeutic, Support Services, Health Informatics, Biotechnology Research and Development). In addition, students are provided a hands-on application of foundational skills and knowledge including health maintenance, employability skills, teamwork, healthcare systems, communications, and legal issues in healthcare. This course includes preparation for Basic Life Support for Healthcare Providers certification.

Patient Care Technician Certification (CPCT/A) STEM
Course #: 79119998
Semester: 0.5 Credit
Grades: 11 (spring semester only) and 12
Prerequisites: Successful completion of or concurrent enrollment in CTE Anatomy & Physiology A & B
Fees: Laboratory fee required. In addition there is a fee to take the certification exam.
The Patient Care Technician Certification (CPCT/A) course provides preparation for the National Healthcareer Association (NHA) CPCT/A certification exam. The course also instills the knowledge and standards needed for excellence in Patient Care Technician practice. The NHA CPCT/A certification is an approved certification found on the Career Development Incentive Program (CDIP) approved programs list.

CTE Health Science WBL - (Internship) - STEM
Course # 79119999S1 / 79119999S2
Semester: 0.5 Elective Credit
Grades: 11-12
Prerequisites: Current or past enrollment in CTE course in the CTE Health Science pathway, application, teacher approval, and reliable transportation.
Students build on prior knowledge and skills in the program of study to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education. A CTE internship allows students to explore a career of interest prior to leaving high school and entering a college or certification program related to the career. The experience provides an opportunity for students to learn from and network with professionals in the field. Students will evaluate their strengths and weaknesses and acquire information to make wise future academic and employment decisions. The internship must be unpaid and a minimum of 40 hours must be completed to receive credit.

CTE Credit-for-Work
Course #: 49827S1 / 49827S2
Semester: 0.5 Elective Credit

Grades: 11-12
Prerequisites: Current or past enrollment in a CTE course in the CTE Health Science pathway, reliable transportation, and a confirmed place of employment by the 10th day of the semester.
CTE Credit-for-Work allows students to receive school credit for working in a paid job related to this particular CTE pathway. Students must find their own employment, remain in good standing at their job, and work for a minimum of 120 hours to receive credit.

Social Studies

Department Chair: Cory Hawk

Mountain Vista Social Studies Flowchart

***3.0 Credits**

****Strongly recommended*** that all students take *FOUR years/4.0 credits* of Social Studies, especially those students who plan on attending a four-year college or university

(See page 4 of the "Academic Planning Guide" for specific district and school course graduation requirements)

9th Grade

World History/World Geography

OR

AP Human Geography

10th Grade

U.S. Government
and
Elective
(highly recommended)

OR

AP World History
or
AP European History

11th Grade

US History 1877-1953
and
US History Since 1954

OR any option below

AP US History,
ACC US History 1210
and
ACC US History 1220, US History 1877 to Present (Rock & Soul of America)

AND
(optional)

Social Studies Elective

12th Grade

US Economics
and
Elective
(highly recommended)

OR

AP Microeconomics
AP Macroeconomics
AP US Government

AND
(optional)

Social Studies Elective

10th, 11th, and 12th Grade Electives

Colorado History
Contemporary World Issues
Medieval History
Modern European History
Sport in Americana
World Religions

11th and 12th Grade Electives

Criminal Justice
Psychology
Regional Geography
Sociology
AP Courses
ACC Courses

AP Courses

Comparative Government
European History
Human Geography
Microeconomics
Macroeconomics
Psychology
US Government and Politics
US History
World History

Concurrent Enrollment ACC Courses

Western Civilization: 1650-Present
ACC US History to the Civil War
ACC US History Since Reconstruction

AP and Concurrent Enrollment ACC Courses Typically Taken By Grade

9th
AP Human Geography

10th
AP World History
AP European History

11th
AP US History
AP Psychology
AP Microeconomics
AP Macroeconomics
AP US Government
AP Comparative Government & Politics
ACC Western Civilization: 1650-Present
ACC US History to Civil War
ACC US History Since Reconstruction

12th
AP Microeconomics
AP Macroeconomics
AP US Government
AP Comparative Government & Politics
AP Psychology
ACC Western Civilization: 1650-Present
ACC US History to Civil War
ACC US History Since Reconstruction

World Geography

Course #: 85835

Semester: .5 Geography Credit

Grade: 9

In this course students will examine the many facets of world history and geography from the beginning of the 20th century to the present day. The purpose of this course is to apply how lessons learned from the past can be applied to teach us about the world today.

Course Objectives

- Use the historical method of inquiry to formulate compelling questions, evaluate primary and secondary sources, analyze and interpret data, and argue for an interpretation of history defended by textual evidence.
- Key concepts of continuity and change, cause and effect, complexity, unity and diversity, and significant ideas throughout the world from 1500 C.E. to the present.
- Use geographic tools and resources to analyze Earth's human systems and physical features to investigate and address geographic issues.
- Geographic variables influence interactions of people, places, and environments.
- The interconnected nature of the world, its people and places.

World History

Course #: 85302

Semester: .5 World History Credit

Grade: 9

In this course students will examine the many facets of world history and geography from the 1500s to the beginning of the 20th century. The purpose of this course is to apply how lessons learned from the past can be applied to teach us about the world today.

Course Objectives

- Use the historical method of inquiry to formulate compelling questions, evaluate primary and secondary sources, analyze and interpret data, and argue for an interpretation of history defended by textual evidence.
- Key concepts of continuity and change, cause and effect, complexity, unity and diversity, and significant ideas throughout the world from 1500 C.E. to the present.
- Use geographic tools and resources to analyze Earth's human systems and physical features to investigate and address geographic issues.
- Geographic variables influence interactions of people, places, and environments.
- The interconnected nature of the world, its people and places.

Geography Regional
Course #: 85868
Semester: .5 Geography Credit
Grades: 11-12
This required course covers basic principles of physical and cultural geography and is designed to help students understand how geography affects the social, political and economic processes in different regions of the world. Students will examine the various developed and developing regions in relation to the five themes of geography: location, place, region, movement and human-environment interaction. Basic geographic concepts such as maps, climate, land forms, resources, and population, as well as cultural, economic and political systems will be covered.

United States Government
Course #: 85700
Semester: .5 Government Credit
Grade: 10-12
In this course students will examine the many facets of government. Topics that will be focused on in this course include, but are not limited to: government types, American government structure, Constitution/Bill of Rights, and participation in American government. Students will utilize skills such as problem solving, analyzing and summarizing information, participation in government, and research.

Sociology
Course #: 85770
Semester: .5 Social Studies Elective Credit
Grades: 11-12
This course provides students with an overview and general understanding of sociology. Students will examine patterns of social behavior and interactions in society. Since these patterns are often found when groups interact, they will be a focus of study. Other possible topics include: social interactions, methods used by sociologists to study social patterns, the nature and impact of culture, the socialization of individuals in society, marriage and family, collective behavior in society, and the nature of social change.

Criminal Justice I
Course #: 68050
Semester: .5 Social Studies Elective Credit
Grades: 11-12
Criminal Justice I – Law Enforcement, Courts, and Corrections is a semester-long class designed for students who are considering careers in criminal justice related fields. Students will learn about criminal justice careers, crime and the criminal justice system, criminal law, courts and the judiciary, the prosecution and the defense, the criminal trial, punishment and sentencing, corrections and crime scene basic principles.

US History 1877 - 1953
Course #: 85531
Semester: .5 American History Credit
Grade: 11
In this course students will examine American History from the end of the Civil War through World War II. Students will cover topics such as the Reconstruction, Industrialization, Progressive Era, World Wars I and II, and the Twenties/Depression. These topics will be explored through government, economics, world relations, social culture, and contributions to modern America. Students will utilize skills such as analyzing and summarizing information, chronological order, and research.

US History Since 1954
Course #: 85533
Semester: .5 American History Credit
Grades: 11
In this course students will examine US History from the drop of the atomic bomb in WWII through present times. Students will cover topics such as the end of WWII, Cold War, Korean War, 1950s, Civil Rights, 1960s, Vietnam War, 1970s, 1980s, 1990s, and Turn of the Century. These topics will be explored through government, economics, world relations, social culture, and contributions to modern America. Students will utilize skills such as analyzing and summarizing information, chronological order and research.

US History 1877 to Present (The Rock & Soul of America)
Course #: 85532S1 / 85532S2
Year: 1.0 American History Credit
Grades: 11 - 12
In this course students will view American History through the lens of music and other primary sources. Students will explore, discuss, and critically analyze music and other artifacts to illuminate the lives of people and the events that shaped the United States from Post-Civil War America to the 2020's. With music and an emphasis on thinking and connecting, students will be able to examine the men and women of all ethnicities and socioeconomic backgrounds who contributed to the fabric of our society.

Sport in Americana
Course #: 851001
Semester: .5 Social Studies Elective Credit
Grades: 10-12
This history elective will explore the development of sport(s) in America. Students will gain insight into the relationship between sports and the social, economic, cultural, and political forces at play in the United States and beyond. The course will address the historical context and significance of race, gender, ethnicity, and social class. Students will engage in historical investigations through readings, primary sources, audio and visual materials, and class discussions and projects.

Modern European History
Course #: 85375
Semester: .5 World History Credit
Grades: 10-12
In this course students will examine the history of Europe from the Middle Ages to the present. It will explore the impact that extremist ideologies, political philosophies and modern industrial warfare have had on that continent and the world. Students will utilize skills such as analyzing and summarizing information, chronological order and research.

US Economics
Course #: 85800
Semester: .5 Economics Credit
Grades: 11-12
Prerequisite: Need teacher approval to take as an 11th grader.
In this course students will examine the economic principles and concepts that will enable them to gain a greater economic understanding of current events and issues. Economic reasoning skills will be emphasized. Students will utilize skills such as analyzing and summarizing information, including the US stock market and research.

Contemporary World Issues
Course #: 85745
Semester: .5 World History Credit
Grade: 10-12
This upper level course will focus on the analysis and interpretation of contemporary world issues. Students will examine current events through themes such as Power, Conflict, Justice, and Technology. Debate, research, discussion, critical thinking, and media analysis are all skills that will be applied during the course of the semester. Students will be required to stay current on world, national, and local issues of importance, if it's in the news, we will likely be talking about it.

Medieval History
Course #: 85350
Semester: .5 World History Credit
Grades: 10-12
This course explores the fascinating journey of Europe from the "Dark Ages" to the High Middle Ages. Students will dive into the political, social, and cultural transformations that shaped medieval Europe, learning about key events, figures, and the evolution of medieval society. This class will focus on critical thinking skills, historical analysis, and understanding the context of medieval times, while debunking myths and addressing misconceptions about this often misunderstood era.

Colorado History
Course #: 85725
Semester: .5 Elective Credit
Grade: 10-12
This course will provide the student with an overview from the first residents of Colorado through the 21st Century. The course will focus on the influential historical figures that have shaped the state as well as the geography of Colorado. This will be a class that will encourage the students to get out and experience all of the amazing aspects that the state has to offer. Each student will take a required "field trip" on your own to one of our many historical sites.

Psychology
Course #: 85750
Semester: .5 Elective Credit
Grade: 11-12
In this course students will examine the many facets of Psychology. Topics that will be focused on in this course include Methods, Biopsychology, Developmental psychology, Cognitive psychology and Social psychology. Students will utilize skills such as problem solving, summarizing and analyzing information and research

World Religions
Course #: 85870
Semester: .5 Elective Credit
Grade: 10-12
This course will prepare the student to understand and participate in the ever-increasing interactions among all nations and cultures of the world. The student will leave the class with basic knowledge of the five major religions of the world along with a strong philosophical understanding of other people and cultures. This knowledge is imperative in preparation for college and the international world that our students are inheriting.

***AP US History**
Course #: 85625S1 / 85625S2
Year: 1.0 US History Credit (1.0 weighted)
Grades: 11-12
Prerequisite: Teacher recommendation and successful completion of 9th and 10th grade Social Studies.
Fees: AP exam cost, textbook and supplemental material.
This survey of American History is taught in chronological sequence and emphasizes social, political and economic themes tested on the Advanced Placement American History exam. College-level writing and study skills will be emphasized. Extensive college-level reading is required. Students are encouraged to take the Advanced Placement Test at the end of the year.

***AP European History**

Course #: 85500S1 / 85500S2
Year: 1.0 World History Credit (1.0 weighted)
Grade: 10-12
Prerequisite: Teacher recommendation and successful completion of 9th grade Social Studies.
Fees: AP Exam cost, textbook and supplemental material.
AP European History is an introductory college-level European history course. Students cultivate their understanding of European history through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like interaction of Europe and the world; economic and commercial developments; cultural and intellectual developments; states and other institutions of power; social organization and development; national and European identity; and technological and scientific innovation.

***AP US Government and Politics**

Course #: 85720
Semester: .5 Government Credit (1.0 weighted)
Grade: 11-12
Prerequisite: Teacher recommendation and successful completion of 9th and 10th grade Social Studies.
Fees: AP Exam cost, textbook and supplemental material.
AP U.S. Government and Politics is an introductory college-level course in U.S. government and politics. Students cultivate their understanding of U.S. government and politics through analysis of data and text- based sources as they explore topics like constitutionalism, liberty and order, civic participation in a representative democracy, competing policy-making interests, and methods of political analysis.

***AP Psychology**

Course #: 85760S1 / 85760S2
Year: 1.0 Social Studies Elective Credit (1.0 weighted)
Grade: 11-12
Prerequisite: Teacher recommendation and successful completion of 9th and10th grade Social Studies.
Fees: AP exam cost, textbook and supplemental material.
AP Psychology is an introductory college-level psychology course. Students cultivate their understanding of the systematic and scientific study of human behavior and mental processes through inquiry-based investigations as they explore concepts like the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology.

***AP Human Geography**

Course #: 85905S1 / 85905S2
Year: 1.0 Social Studies Credit (1.0 weighted)
Grades: 9
Prerequisite: Department approval/application
Fees: AP exam cost, textbook and supplemental material.
AP Human Geography is an introductory college-level human geography course. Students cultivate their understanding of human geography through data and geographic analyses as they explore topics like patterns and spatial organization, human impacts and interactions with their environment, and spatial processes and societal changes.

***AP Microeconomics**

Course #: 85630
Semester: .5 Social Studies Credit (1.0 weighted)
Grades: 11-12
Prerequisite: Algebra I
Fees: AP exam cost, textbook and supplemental material.
AP Microeconomics is an introductory college-level microeconomics course. Students cultivate their understanding of the principles that apply to the functions of individual economic decision-makers by using principles and models to describe economic situations and predict and explain outcomes with graphs, charts, and data as they explore concepts like scarcity and markets; costs, benefits, and marginal analysis; production choices and behavior; and market inefficiency and public policy.

***AP Macroeconomics**

Course #: 85631
Semester: .5 Social Studies Credit (1.0 weighted)
Grades: 11-12
Prerequisite: Algebra II or Math Analysis (for AP Macro)
Fees: AP exam cost, textbook and supplemental material.
AP Macroeconomics is an introductory college-level macroeconomics course. Students cultivate their understanding of the principles that apply to an economic system as a whole by using principles and models to describe economic situations and predict and explain outcomes with graphs, charts, and data as they explore concepts like economic measurements, markets, macroeconomic models, and macroeconomic policies.

***AP World History: Modern**

Course #: 85340S1/ 85340S2
Year: 1.0 World History Credit (1.0 weighted)
Grades: 10- 12
Prerequisite: Teacher recommendation and successful completion of 9th grade Social Studies.
Fees: AP exam cost, textbook and supplemental material.
This class focuses primarily on the past thousand years of global experience. Students analyze interaction among major societies, change and continuity across the world, the impact of technology and demography, social and gender structures, cultural and intellectual developments and changes in states.

AP Comparative Government and Politics

Course #: 85723
Semester: 0.5 Social Studies Elective Credit (1.0 weighted)
Grades: 11-12
AP Comparative Government and Politics is an introductory college-level course in comparative government and politics.The course uses a comparative approach to examine the political structures; policies; and political, economic, and social challenges of six selected countries: China, Iran, Mexico, Nigeria, Russia, and the United Kingdom. Students cultivate their understanding of comparative government and politics through analysis of data and text-based sources as they explore topics like power and authority, legitimacy and stability, democratization, internal and external forces, and methods of political analysis.

AP African American Studies
Course #: 85724S1 / 85724S2
Year: 1.0 Social Studies Elective Credit (1.0 weighted)
Grades: 11-12
AP African American Studies is an interdisciplinary course that examines the diversity of African American experiences through direct encounters with varied sources. Students explore key topics that extend from early African kingdoms to the ongoing challenges and achievements of the contemporary moment. Given the interdisciplinary character of African American Studies, students in the course will develop skills across multiple fields, with an emphasis on developing historical, literary, visual, and data analysis skills.

ACC College Ready Courses

Students will create a "transcript" at/with Arapahoe County College (ACC). Credits will transfer to a four-year college, if the receiving college accepts credits from ACC. Students enrolled in this course must be concurrently enrolled in ACC.

ACC-HIS 1210 United States History to Reconstruction: GT-HI1
Course #: 69081
Semester: .5 American History credit (1.0 weighted)
ACC Credit: 3 credits
Grades: 11-12
Fees: $15.00
Prerequisite: Cumulative 3.0+ GPA OR SAT Evidenced Reading and Writing 470+ OR ACT English 18+, OR Next Gen Accuplacer Writing 246+; If GPA 2.6-2.99, a B in second semester English III or AP Language & Composition will qualify. In addition, completion of application by deadline date and teacher approval.
Explores trends within events, people, groups, ideas, and institutions in North America and the United States to Reconstruction. This class focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, region, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-H11 category.

ACC-HIS 1220 US History since the Civil War: GT-H11
Course #: 69102
Semester: .5 American History credit (1.0 weighted)
ACC Credit: 3 credits
Grades: 11-12
Fees: $15.00
Prerequisite: Cumulative 3.0+ GPA OR SAT Evidenced Reading and Writing 470+ OR ACT English 18+, OR Next Gen Accuplacer Writing 246+; If GPA 2.6-2.99, a B in second semester English III or AP Language & Composition will qualify. In addition, completion of application by deadline date and teacher approval.
Explores events, trends, peoples, groups, cultures, ideas and institutions in United States History, including the multiple perspectives of gender, class, and ethnicity, between the period of the American Civil War and the present. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in the discipline.

ACC-HIS 1320 Western Civilization: 1650-Present: GT-HI1
Course #: 69082
Semester: .5 Elective Credit (1.0 weighted)
ACC Credit: 3 credits

Grades: 11-12
Fees: $15.00 + ACC Textbook fee
Prerequisite: Cumulative 3.0+ GPA OR SAT Evidenced Reading and Writing 470+ OR ACT English 18+, OR Next Gen Accuplacer Writing 246+; If GPA 2.6-2.99, a B in second semester English III or AP Language & Composition will qualify. In addition, completion of application by deadline date and teacher approval.
Explores a number of events, peoples, groups, ideas, institutions, and trends that have shaped Western Civilization from 1650 to the present. Reflects the multiple perspectives of gender, class, religion, and ethnic groups. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in this discipline.

Engineering and Computer Science

Department Chair: Kent Allison

MVHS ENGINEERING PATHWAYS

1

** **Prerequisite course for ALL other Engineering courses.**

CTE Principles of Engineering & Technology

Topics include - OnShape CAD, 3D Printing/Additive Manufacturing, Electronics, Woodworking, Laser Engraving and Graphic Design

2

*Students must take Principles of Engineering & Technology before any of these courses

CTE Intro to Engineering Design

The next level of Engineering Course - Continuation and more indepth from Principles class. Topics in clude Robotics, Rockets, CAD, Additive/Subtractive Manufacturing

CTE Applied Engineering

Topics include further skill development with tools and software from the Stem Lab - various project choice. Applied course for students interested in further developing their skills as future engineers.

CTE Robotics and Automated Systems

Topics include Robotic design, programing and manufacturing. Student will have an understanding of the historical and current uses of robots and automated systems; programmable circuits, interfacing both inputs and outputs; ethical standards for engineering and technology professions; and testing and maintenance of robots and automated systems.

CE - ACC CAD 2455 Solidworks

Concurrent Enrollment - Students will use Solidworks CAD Software in intermediate and advanced pathways to have an opportunity to take a Solidworks Certified Associate or Professional Industry Certifications (CSWA-CSWP)

3

*Students must take Principles of Engineering & Technology and others before any of these courses

CE - ACC CAD 2660 3D Printing/Additive Manufacturing

*CAD 2455 is the prerequisite for this class - Topics include design, build and test addtive manufacturing processes. *Industry Certification Opportunity

CE - ACC CAD 2456 Advanced Solidworks

*CAD 2455 is the prerequisite for this class -Introduces advanced applications of the 3D parametric software SolidWorks. Sheet Metal, Weldments, Surfacing, Drawing Tools, and Mold Tools *Industry Certification Opportunity

CTE Internship/Tech Support

Application Approval - students troubleshoot lab equipment and produce projects for various school groups while learning valueable skills in an internship setting

CTE Engineering/Tech Work Based Learning

Apply for work based internships/apprenticeships/trials and or entrepreneurship activities related to Engineering disciplines

CTE Engineering/Tech Capstone

The culmination of Engineering Courses - indiviualized, advanced and/or cumulative work in a chosen field of study

ENGINEERING

Engineering

CTE Principles of Engineering & Technology (Introduction to Engineering) STEM (T/E)
Course #: 79140101
Semester: .5 Practical Art Credit
Grades: 9-12
Fees: $50.00 materials fee required
Principles of Engineering and Technology is designed to introduce students to the STEM cluster and for students who are interested in learning more about careers in engineering and technology. This course covers basic skills required for engineering and technology fields of study. Upon completion of this course, students are able to identify and explain the steps in the engineering design process. They can evaluate an existing engineering design, use fundamental sketching and engineering drawing techniques, complete simple design projects using the engineering design process, and effectively communicate design solutions to others. Projects in OnShape CAD, 3D Printing, Woodworking, Laser Engraving, Soldering, Electronic, and Graphic Design.

CTE Intro to Engineering Design (Engineering I) STEM (T/E)
Course #: 79140201
Semester: .5 Practical Art Credit
Grades: 9-12
Prerequisite: CTE Principles of Engineering and Technology
Fees: $50.00
Introduction to Engineering Design is a fundamental course for students interested in developing their skills in preparation for careers in engineering and computer science. This course covers essential knowledge, skills, and concepts required for postsecondary engineering and computer science fields of study. Upon completion of this course, proficient students are able to describe various engineering disciplines, as well as admissions requirements for postsecondary engineering and engineering technology programs in Colorado. They will also be able to identify simple and complex machines, calculate various ratios related to mechanisms, explain fundamental concepts related to energy, understand Ohm's Law, follow the steps in the engineering design process to complete a team project, and effectively communicate design solutions to others.

CTE Robotics & Automated Systems (Engineering II) STEM (T/E)
Course #: 79140302
Semester: .5 Practical Art Credit
Grades: 9-12
Prerequisite: CTE Principles of Engineering and Technology
Fees: $50.00
Robotics & Automated Systems is an applied course for students who wish to explore how robots and automated systems are used in industry. Upon completion of this course, students will have an understanding of the historical and current uses of robots and automated systems; programmable circuits, interfacing both inputs and outputs; ethical standards for engineering and technology professions; and testing and maintenance of robots and automated systems.

CTE Applied Engineering Design (Engineering III) STEM (T/E)
Course #: 79140301
Semester: .5 Practical Art Credit
Grades: 10-12
Prerequisite: CTE Principles of Engineering and Technology
Fees: $50.00 for consumable and tech supplies
Applied Engineering Design is an applied course for students interested in further developing their skills as future engineers. This course covers knowledge, skills, and concepts required for postsecondary engineering and technology fields of study. Upon completion of this course, proficient students are able to explain the differences between scientists and engineers, understand the importance of ethical practices in engineering and technology, identify components of control systems, create simple free body diagrams, use measurement devices employed in engineering, conduct basic engineering economic analysis, follow the steps in the engineering design process to complete a team project, and effectively communicate design solutions to others.

CTE ENG & Tech Capstone (Engineering IV) STEM (T/E)
Course # 79148888S1
Semester: .5 Practical Art Credit
Grades: 11-12
Prerequisite: CTE Principles of Engineering and Technology
Fees: $50 for consumable and tech supplies
This course allows for individualized, advanced, and/or cumulative work in a program of study. This work is individualized to the student within a specific program of study to allow for specialized study. It may include problem-/project-based learning or preparation for industry certification. The specific content and course design is determined by the instructor, in collaboration with the individual student. Students will create a personal web portfolio for personal projects. One required unit in Computer Aided Machining using the STEM LAB Tormach 770mx Mill.

MVHS COMPUTER SCIENCE PATHWAYS

1

CTE Computer Science Foundations
A fun and engaging course that teaches the fundamentals of programming concepts through text-based coding using **Python**. This course is based in the belief that programming and computer science should be creative, fun and engaging.
GRADES: All **PREREQUISITES:** None
PERFECT FOR: Students looking to combine creativity with computer science exploration while learning (or refreshing) Python skills.

CE - ACC CIS 118 - Intro to PC Applications
This course introduces basic computer terminology, file management, and PC system components. Provides an overview of office application software including word processing, spreadsheets, databases, and presentation graphics.
GRADES: All **PREREQUISITES:** None
PERFECT FOR: Students seeking fundamental computer proficiency in office software applications while earning college credits.

2

AP Computer Science Principles
AP Computer Science Principles is an introductory college-level computing course that is rigorous, engaging, and approachable. Students will work with data, collaborate to solve problems, and develop computer programs as they explore concepts like creativity, data and information, programming, the internet, and the impact of computing.
GRADES: All **PREREQUISITES**: None
PERFECT FOR: Students seeking an AP experience that is approachable in a relevant subject matter while also being motivated enough to study for AP exam when class is not in session. This is a **one semester** course in the fall.

CTE Cybersecurity 1
This course interweaves essential networking concepts with relevant, hands-on problem-solving activities to maximize students' understanding of network hardware and configuration, the use of protocols to enable reliable and accurate transmission of data between different hosts around the world, and relevant security practices that secure the transmission of data both within and between computer networks.
GRADES: All **PREREQUISITES:** None
PERFECT FOR: Students beginning a track in cybersecurity and/or wanting to explore the field of networking.

CTE Cybersecurity 2
This course will explore the current cyber threat landscape to understand the types of adversaries faced by organizations and the techniques adversaries use to compromise systems and data. Learn how vulnerabilities create risk and how organizations implement security controls to manage that risk. Topics in the course include physical, operational, application, and network security; security controls; cryptography; access control; attacks and detection; response; and recovery. Research emerging trends in cybersecurity and get hands-on experience implementing security protocols.
GRADES: All **PREREQUISITES:** None
PERFECT FOR: Students interested in protecting digital systems, understanding cyber threats, and exploring how to defend against them in a hands-on, real-world context.

CTE Web Design Foundations
Learn the highly relevant skills and languages needed to develop web pages and websites. This is an excellent class for those interested in both computer science, liberal arts and/or multimedia design.
GRADES: All **PREREQUISITES:** None
PERFECT FOR: Students wanting to explore the world of creating content with technology in an approachable and creative class.

CTE Introduction to Multimedia
An introduction into the design, production, and integration of multimedia elements to create engaging and interactive digital content, including illustrations, videos, audio, animations, and more using industry standard software.
GRADES: All **PREREQUISITES:** None
PERFECT FOR: A great beginning class for students interested in graphic design, video production, or any multimedia creation.

3

AP Computer Science A

Students will get familiar with the concepts and tools of computer science as you learn a subset of the **Java** programming language. Students use hands-on work to design, write, and test computer programs that solve problems or accomplish tasks.
GRADES: 10, 11, 12
PREREQUISITES: CTE Computer Science Foundations or AP Computer Science Principles
PERFECT FOR: Students who enjoy the problem solving and computational thinking involved in programming and wish to explore an object oriented language with the rigors of an AP class format.

CTE Game Design

This course blends problem-solving, game design, and computer science to introduce fundamental gaming and computer science concepts. It offers tracks for those passionate about video game programming, visual and special effects in game design, or those in between.
GRADES: 10, 11, 12
PREREQUISITES: Any level 1 or level 2 computer science pathway course.
PERFECT FOR: If you like video games, this is the class for you!

4

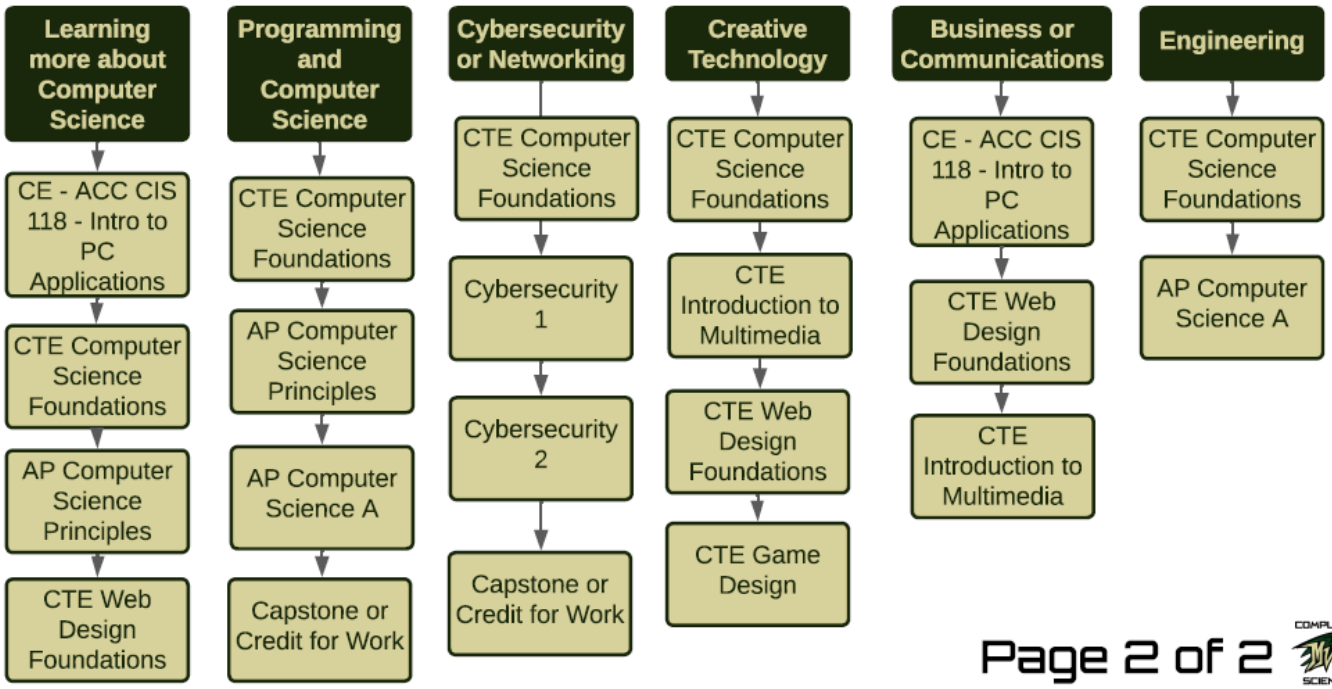
CTE IT WBL (Internship) CAPSTONE STEM (T) / (E)

Students build on prior knowledge and skills in the program of study to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education.
GRADES: 11, 12
PREREQUISITES: Current or past enrollment in CTE course in the Engineering and Tech pathway, application, & teacher approval.
PERFECT FOR: Students who want to further their knowledge in a computer science topic beyond level 1, 2 or 3 courses. This course will guide you in making a plan and connecting you with industry experts to achieve a computer science learning goal.

CTE CREDIT FOR WORK

CTE Credit-for-Work allows students to receive school credit for working in a paid job related to this particular CTE pathway. Students must find their own employment, remain in good standing, and work for a minimum of 120 hours.
GRADES: 11, 12
PREREQUISITES: Current or past enrollment in CTE course in the Engineering and/or computer science pathway, application, teacher approval, and reliable transportation.
PERFECT FOR: Students seeking authentic work place experience in the field of computer science.

What's your interest? POSSIBLE (not required) course pathway:



COMPUTER SCIENCE

CTE Intro to Multimedia STEM (T/E)
Course #: 79123203
Semester: .5 Practical Art Credit
Grades: 9-12
Fees: $35.00 for consumable materials and technical supplies.
Develop your skills in multimedia and video production. Topics include how to film and edit video with special effects, create 3D models, manipulate digital photographs, draw and animate 2D scenes, and design websites. You will also learn how to use industry leading tools such as Final Cut Pro and the Adobe Suite, and at the same time increase your proficiency in general computer skills in Mac OS X

CTE Web Design Foundations STEM (T/E)
Course #: 79123201S1
Semester: .5 Practical Art Credit
Grades: 9-12
Fees: $35.00 for consumable materials and technical supplies.
Learn the highly relevant skills and languages needed to develop web pages and websites. This is an excellent class for those interested in both computer science, liberal arts and/or multimedia design.

CTE Game Design STEM (T/E)
Course #: 79121303S1
Semester: .5 Practical Art Credit
Grades: 9-12
Prerequisite: Any level 1 or level 2 multimedia or computer science course
Fees: $35.00 for consumable materials and technical supplies.
This course blends problem-solving, game design, and computer science to introduce fundamental gaming and computer science concepts. It offers tracks for those passionate about video game programming, visual and special effects in game design, or those in between.

CTE Computer Science Foundations STEM (T/E)
Course #: 79120001
Semester: .5 Practical Arts Credit
Grades: 9-12
Prerequisites: None
Fees: $15
A fun and engaging course that teaches the fundamentals of programming concepts through text-based coding using Python. This course is based in the belief that programming and computer science should be creative, fun and engaging.

***AP Computer Science Principles STEM (T/E)**
Course #: 30506S1
Semester: .5 Practical Art Credit (1.0 weighted)
Grades: 9-12
Fees: AP Exam fee
AP Computer Science Principles is an introductory college-level computing course that is rigorous, engaging, and approachable. Students will work with data, collaborate to solve problems, and develop computer programs as they explore concepts like creativity, data and information, programming, the internet, and the impact of computing. ***This is a one semester course in the fall with the AP exam in the spring.**

***AP Computer Sci A STEM (T/E)**
Course #: 30505S1 / 30505S2
Year: 1.0 Practical Art Credit (1.0 weighted)
Grades: 10-12
Prerequisites: Successful completion of CTE Computer Science Foundations or AP Computer Science Principles or instructor approval.
Fees: AP Exam fee
Students will get familiar with the concepts and tools of computer science as you learn a subset of the Java programming language. Students use hands-on work to design, write, and test computer programs that solve problems or accomplish tasks.

AP CK Cybersecurity 1: NF STEM (T/E)
Course #: 30507S1 / 30507S2
Year: 1.0 Practical Art Credit
Grades: 9-12
Prerequisites: None
AP CK Cybersecurity 1 - Networking Fundamentals: This is a full-year high school course that covers the fundamentals of networking. It is equivalent to a college-level Introduction to Networking course. The course interweaves essential networking concepts with relevant, hands-on problem-solving activities to maximize students' understanding of network hardware and configuration, the use of protocols to enable reliable and accurate transmission of data between different hosts around the world, and relevant security practices that secure the transmission of data both within and between computer networks.

Networking Fundamentals is designed to help students develop understanding and skills that will contribute to their ability to pass widely recognized professional cybersecurity certifications such as CompTIA Network+, Cisco Certified Networking Associate (CCNA), and Cisco Certified Support Technician (CCST): Networking.

AP CK Cyber: Security STEM (T/E)
Course #: 30508S1/30508S2
Year: 1.0 Practical Art Credit
Grades: 9-12
Prerequisites: None

This is a full-year course covering foundational cybersecurity concepts and skills and is equivalent to a college-level Introduction to Cybersecurity course. Students will explore the current cyber threat landscape to understand the types of adversaries organizations face and the techniques adversaries use to compromise systems and data. Students will learn how vulnerabilities create risk and how organizations implement security controls to manage that risk. Topics in the course include physical, operational, application, and network security; security controls; cryptography; access control; attacks and detection; and response and recovery. Students will research emerging trends in cybersecurity and gain hands-on experience implementing security protocols.

Work Based Learning

CTE IT WBL (Internship) Capstone STEM (T/E)
Course # 79149999S1/ 79149999S2
Semester: .5 Science
Grades: 11-12
Prerequisites: Current or past enrollment in CTE course in the Engineering and Tech pathway, application, teacher approval, and reliable transportation.
Students build on prior knowledge and skills in the program of study to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education.
A CTE internship allows students to explore a career of interest prior to leaving high school and entering a college or certification program related to the career.

CTE Credit-for-Work STEM (T/E)
Course #: 49827S1 / 49827S2
Semester: .5 Practical Art Credit
Grades: 11-12
Prerequisites: Current or past enrollment in CTE course in the Technology, Engineering & Computer Science pathway, reliable transportation, and a confirmed place of employment by the 10th day of the semester.
CTE Credit-for-Work allows students to receive school credit for working in a paid job related to this particular CTE pathway. Students must find their own employment, remain in good standing at their job, and work for a minimum of 120 hours to receive credit.

ACC College Ready Courses

ACC-CIS 1018 Intro to PC Applications STEM (T)
Course #: 69020
Grades: 9-12
MVHS Semester: 0.5 Practical Art Credit (1.0 weighted)
ACC Credit: 3 credits
Prerequisite: Students must have an ACC "S" number
Fees: $15.00 + Purchase of a textbook

Introduces computer concepts and components, as well as application-suite software and the Internet. Includes descriptions of and hands-on experiences with work processing, spreadsheets, databases, operating environments and other common PC application packages. Pathway: Business, Public Administration, Accounting, Finance, Information Technology, Architecture. Credits: 3 ACC; towards AGS, AA, AS, AAS in Computer Information Systems, Convergent Technology, Broadband Technology, Architectural Technology, CAD, and Certifications in Telecommunications, Engineering, Business, Accounting, CIS.

ACC-CAD 2455 Solidworks STEM (T/E)
Course #: 69075
MVHS Semester: 0.5 Practical Art Credit (1.0 weighted)
ACC Credit: 3 credits
Grades: 11-12
Prerequisite: CTE Principles of Engineering & students must have an ACC "S" number.
Fees: $15.00 + Purchase of a textbook
Introduces parametric feature-based solid modeling 3D concepts to build confidence in 3D thinking and progresses to three-dimensional parameters. This course provides instruction on how to construct, modify, and manage complex parts in 3D space as well as to produce 2D drawings from the 3D models. Students will have the opportunity to earn a Certified Solidworks Associate (CSWA) and Certified Solidworks Professional (CSWP) Industry Certification.

ACC-CAD 2660 - 3D Printing/Additive Manufacturing STEM (T/E)
Course #: 69164
MVHS Semester: 0.5 Practical Art Credit (1.0 weighted)
ACC Credit: 3 credits
Grades: 11-12
Prerequisite: CTE Principles of Engineering and Technology and CAD 2455 with a grade of "C" or better. Students must have an ACC "S" number
Fees: $15.00 + Purchase of a textbook
Provides the student with the ability to blend the virtual and real design worlds together through the use of 3D CAD Modeling, and 3D Printing. Students will utilize the MVHS 3D Printing lab with all types of printing with specialization in part bonding and fit, finishing techniques, design for 3D printing and safety. Students will create a personal web portfolio to highlight projects created within the course.

ACC-CAD 2456 - Advance Solidworks STEM (T/E)
Course #: 69076
MVHS Semester: 0.5 Practical Arts Credit (1.0 weighted)
ACC Credit: 3 Credits
Grades: 11-12
Prerequisite: CAD 2455 with a grade of "C" or getter. Students must have an ACC "S" number
Fees: $15 + Purchase of a textbook
Introduces advanced applications of the 3D parametric software SolidWorks. Focuses include management of design data, advanced assembly, analysis of model creations, documentation of bill of materials and parts lists, rendering, animation, and dynamic simulation and testing a model assembly. Students will have the opportunity to earn CSWPA

Certifications in Weldments, Drawing Tools, Surfacing, Mold Tools and Sheet Metal as well as prepare for the Certified Solidworks Expert Exam.

Theatre

Department Chair: Michael Wright

Mountain Vista High School Theatre Flowchart

STAGE FLIGHT THEATRE

Acting/Directing

CTE Technical Theatre A
All grades

CTE Technical Theatre B
All grades

Acting/Directing

CTE Production and Managerial Arts (formerlyTheatre I)
9th Grade

CTE Production and Managerial Arts (formerly Theatre I)
9th & 10th Grade

CTE Stage Production Management (formerly Theatre III)
10th & 11th Grade

Theatre IV/Director
11th & 12th

CTE Production and Managerial Arts CAP (formerly Theatre Production Ensemble)

CTE Production & Managerial Arts (Theatre I)
Course #: 7903002
Semester: .5 Fine Arts Credit
Grades: 9-12
Fees: $30.00
Students are introduced to the variety of programs and occupations in the arts, audio/video technology, and communication systems. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.

CTE Performance & Communication (Theatre II)
Course #: 7903109S1
Semester: .5 Fine Arts Credit
Grades: 9-12
Prerequisite: CTE Production & Managerial Arts (Theatre I)
Fees: $30.00
This course introduces students to methods of performance and performance-dependent careers. Though performance is a significant part of this course, further topics include financial awareness, promotion and marketing, and management and leadership.

CTE Stage Production Manager (Theatre III) STEM (T/E)
Course #: 7903204S1 / 7903204S2
Year: 1.0 Fine Arts Credit
Grades: 10-12
Prerequisite: Theatre I and II and/or teacher approval.
Fees: $30.00
This course introduces students to various areas of management within the stage production industry which include stage manager (working with assistants, actors, and directors), theater manager (advertising, box office sales, public relations), human resources (training, hiring, safety, compensation, law), and financial manager (payroll and budget).

Theatre IV Director (Play Production & Directing) - STEM (T/E)
Course #: 70730S1 / 70730S2
Year: 1.0 Fine Arts Credit
Grades: 11-12
Prerequisite: Theatre I, II, III & instructor approval.
Fees: $30.00
This course focuses on principles of directing and advanced acting for the advanced performer. Units include directing exercises, student-directed one-act plays, and children's theatre. This class also writes, produces and directs a full production.

CTE Prod & Managerial Arts CAP (Theatre Production Ensemble)
Course #: 7903304S1 / 7903304S2
Year: 1.0 Fine Arts Credit
Grades: 11-12
Prerequisite: Theatre I,II. II and audition/application.
Fees: $30.00
This audition-only course is for the advanced theatre student who wants to pursue theatre in college and beyond. The course combines advanced acting work and production as well as play analysis and creation of original works. Play production is the core of this class. Students may be required to participate in the extracurricular productions.

CTE Technical Theatre A (Technical Theatre I) STEM (T/E)
Course #: 7903111S1
Semester: .5 Fine Arts Credit
Grades: 9-12
Fees: $30.00
Introduces methods of constructing and painting scenery and properties, operating stage lighting and sound equipment, and implementing costumes and multimedia. This course explores the proper procedures of serving on stage crews.

CTE Technical Theatre B (Technical Theatre II) STEM (T/E)
Course #: 7903111S2
Semester: .5 Fine Arts Credit
Grades: 9-12
Prerequisite: Technical Theatre I and teacher approval.
Fees: $30.00
Introduces methods of constructing and painting scenery and properties, operating stage lighting and sound equipment, and implementing costumes and multimedia. This course explores the proper procedures of serving on stage crews.

CTE Prod & Managerial Arts WBL (Internship) - STEM (T/E)
Course #: 79033999S1/ 79033999S2
Semester: .5 Fine Arts Credit
Grades: 11-12
Prerequisites: Current or past enrollment in CTE course in the Theatre Arts pathway, application, teacher approval, and reliable transportation.
Students build on prior knowledge and skills in the program of study to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education.
A CTE internship allows students to explore a career of interest prior to leaving high school and entering a college or certification program related to the career. The experience provides an opportunity for students to learn from and network with professionals in the field. Students will evaluate their strengths and weaknesses and acquire information to make wise future academic and employment decisions. The internship must be unpaid and a minimum of 40 hours must be completed to receive credit.

CTE Credit-for-Work - STEM (T/E)
Course #: 49827S1 / 49827S2
Semester: .5 Practical Art Credit
Grades: 11-12
Prerequisites: Current or past enrollment in CTE course in the Theatre Arts pathway, reliable transportation, and a confirmed place of employment by the 10th day of the semester.
CTE Credit-for-Work allows students to receive school credit for working in a paid job related to this particular CTE pathway. Students must find their own employment, remain in good standing at their job, and work for a minimum of 120 hours to receive credit.

World Language

Department Chair: Christine Tadlock

Spanish I
Course #: 95600S1 / 95600S2
Year: 1.0 Elective Credit
Grades: 9-12
Fees: Workbook/Novels
Students will learn how to communicate in Spanish in three modes (interpersonal, presentational, and interpretive) in the context of the culture of the Spanish speaking countries. They will for example, hold basic conversations, understand reading passages or audio selections and will write or present about their experiences at a novice level. The teacher and students will work together to stay in level appropriate Spanish.

Spanish II
Course #: 95610S1 / 95610S2
Year: 1.0 Elective Credit
Grades: 9-12
Prerequisite: Successful completion (C or above) of Level I
Fees: Workbook/Novels
Students will continue developing their communicative skills in the three modes (interpersonal, presentational, and interpretive) in the context of the culture of Spanish speaking countries. They will, for example, hold lengthier conversations, understand and interpret reading passages and audio selections and will write or present about events, some in the past, at a novice to intermediate low level. The teacher and students will work together to stay in level appropriate Spanish.

Spanish III
Course #: 95620S1 / 95620S2
Year: 1.0 Fine Art or Practical Art Credit (0.5 weighted)
Grades: 9-12
Prerequisite: Successful completion (C or above) of Level II
Fees: Workbook/Novels
Students will continue developing their communicative skills in the three modes (interpersonal, presentational, and interpretive) in the context of the culture of Spanish speaking countries. They will, for example, hold more detailed conversations, interact more independently, understand, interpret and analyze reading passages and audio selections, and will write in short paragraphs or present about topics in the past, present, future and subjunctive at an intermediate low to mid level. The teacher and student will work together to stay in level appropriate Spanish.

Spanish IV / Pre-Ap Spanish Language & Culture
Course #: 95631S1 / 95631S2
Year: 1.0 Fine Art or Practical Art Credit (0.5 weighted)
Grades: 10-12
Prerequisite: Successful completion (C or above) of Level III
Fees: Workbook/Novels
Level IV classes are conducted entirely in the target language. The students work on improving their fluency by speaking, reading, writing and listening to the language they are learning. Vocabulary study continues, as does practice and review of the grammatical structures already learned. Classroom discussions are conducted on topics of interest to the students. The reading is from works of native authors.
*After Level IV students may continue on to AP Spanish or Spanish V. If you plan to do both, AP Spanish Language must come before Spanish V.

***AP Spanish Language/Culture**
Course #: 95640S1 / 95640S2
Year: 1.0 Fine Art or Practical Art Credit (1.0 weighted)
Grades: 11-12
Prerequisite: Successful completion of Level IV or with teacher recommendation.
Fees: Purchase of the AP textbook, workbook and AP Exam fee.
Students continue building their fluency in the language through oral, written, listening and reading practice. These classes are conducted entirely in the language with both students and teachers communicating only in the target language. Students in AP Level classes prepare to take the Language Advanced Placement tests, which are given in May. This coursework is designed to prepare students to take the AP exam, which students may take to earn college credit.

French I
Course #: 95400S1 / 95400S2
Year: 1.0 Elective Credit
Grades: 9-12
Fees: May apply for Workbook/Novels
Students will learn how to communicate in French in three modes (interpersonal, presentational, and interpretive) in the context of the culture of French speaking countries. They will, for example, hold basic conversations, understand reading passages or audio selections and will write or present about their experiences at a novice level. The teacher and students will work together to stay in level appropriate French.

French II
Course #: 95410S1 / 95410S2
Year: 1.0 Elective Credit
Grades: 9-12
Prerequisite: Successful completion (C or above) of Level I.
Fees: May apply for Workbook/Novels
Students will continue developing their communicative skills in the three modes (interpersonal, presentational, and interpretive) in the context of the culture of French speaking countries. They will, for example, hold lengthier

conversations, understand and interpret reading passages and audio selections and will write or present about events, some in the past, at a novice level. The teacher and students will work together to stay in level appropriate French.

French III

Course #: 95420S1 / 95420S2
Year: 1.0 Fine Arts or Practical Arts Credit (0.5 weighted)
Grades: 9-12
Prerequisite: Successful completion (C or above) of Level II
Fees: May apply for Workbook/Novels
Students will expand their communicative skills in the three modes (interpersonal, presentational, and interpretive) in the context of the culture of French speaking countries. They will, for example, hold more detailed conversations, interact more independently, understand, interpret and analyze reading passages and audio selections and will write in short paragraphs or present about topics in the past, preset, or future at an intermediate low to mid level. The teacher and students will work together to stay in level appropriate French.

French IV

Course #: 95435S1 / 95435S2
Year: 1.0 Fine Arts or Practical Arts Credit (0.5 weighted)
Grades: 10-12
Prerequisite: Successful completion of Level III.
Fees: May apply for Workbook/Novels
Students will continue expanding their communicative skills in the three modes (interpersonal, presentational, and interpretive) in the context of the culture of French speaking countries. They will, for example, hold detailed conversations, interact independently, understand, interpret and analyze reading passages and audio selections and will write longer paragraphs or present about topics in the past, preset, or future at an intermediate low to mid level. The teacher and students will work together to stay in level appropriate French.

AP French Language/Culture

Course #: 95440S1 / 95440S2
Year: 1.0 Fine Art or Practical Art Credit (1.0 weighted)
Grades: 11-12
Prerequisite: Successful completion of French IV with teacher recommendation.
Fees: Purchase of AP text and workbook and AP Exam fee.
Students will refine their communicative skills in the three modes (interpersonal, presentational, and interpretive) in the context of the culture of French speaking countries. The course will prepare them for the AP exam and explore concepts related to family and community, personal and public identity, beauty and aesthetics, science and technology, contemporary life, and global challenges. Students may opt out of taking the exam. Students will for example engage in conversations, interact independently, understand, interpret, analyze and evaluate reading passages and audio selections, and will write paragraphs and essays or present about topics in the past, present, or future at an intermediate mid to high level. The teacher and students will work together to stay in level appropriate French.

American Sign Language I

Course #: 95300S1 / 95300S2
Year: 1.0 Elective Credit
Grades: 9-12

This year-long course will expose students to American Sign Language, focusing on visual/receptive skills and basic communication. Students will develop syntactic knowledge of ASL, finger spelling, numbers, common phrases, basic vocabulary, specialized signs, and basic communication skills.

American Sign Language II
Course #: 95302S1 / 95302S2
Year: 1.0 Elective Credit
Grades: 10-12
Prerequisite: Successful completion (C or above) of ASL Level I or teacher recommendation.
This year-long course will expose students to vital aspects of deaf culture and community. It emphasizes further development of receptive skills, expressive skills, application of syntactic and grammatical structures, and sign language colloquialisms used in conversational signing.

American Sign Language III / ACC-ASL 1121 American Sign Language I
Course #: 95303S1 / 69114
Year: 1.0 Fine Art or Practical Art Credit (ASL III is 0.5 weighted; ACC-ASL is 1.0 weighted)
ACC Credit: 5 credits
Grades: 10-12
Prerequisite: Successful completion (C or above) of ASL Level II or teacher recommendation.
This course will reinforce the student's exposure to vital aspects of deaf culture and community.
It will extend proficiency of receptive skills, expressive skills, application of syntactic and grammatical structures and sign language colloquialisms used in conversational signing. Further study of vocabulary, idioms, culture, ASL linguistics, word shapes, and topics will be essential for both left and right- handed students. Students will study implementation of grammatical information through rule-governed movements of the face and head to find compelling meaning through a variety of facial behaviors. Use of space as related to the signer is also significant and will be discussed. ASL poetry and its significance in ASL linguistic studies will be introduced. Deaf culture, norms, and behaviors will be studied.

American Sign Language IV/ ACC-ASL 1122 American Sign Language II
Course #: 95304S1 / 69115
Year: 1.0 Fine Art or Practical Art Credit (ASL IV is 0.5 weighted; ACC-ASL is 1.0 weighted)
ACC Credit: 5 credits
Grades: 11-12
Prerequisite: "C" or better in ASL III/ASL 1121 or teacher recommendation.
The literacy centers will be used in this course. Further study of ASL and its grammar, syntax, and cultural features will be addressed. Students will write and sign stories of their bilingual/multicultural lives, as well as the bilingual, multicultural lives of other Deaf individuals as they acquire graphic design skills to illustrate various literary works. ASL poetry, that was learned in ASL III, will be reinforced through poetry analysis. The direct experience method will be used to enhance the learning process and help students develop competency and fluency in the language. The primary focus of the course will be in storytelling which can then be applied in a variety of methods (expressions, sentences, and extended thoughts) and modes (conversations, presentations, and productions).
A "Literacy Center" will be created as a place where all components of literacy can be developed and reinforced. Students work in the "center" individually or in groups on activities designed to support the development of ASL skills using research-based practices and state of the art technology. Reading components learned include vocabulary,

comprehension, fluency and phonetic principle through ASL phonology, phonological awareness and visual identification skills.

Special Courses

CTE - (Career and Technical Education)
Year: Credit varies
Grades: 11-12
Prerequisite: Approval from counselor, an application, space available and the ability to provide own transportation.
Training and/or exposure to various and skill-based programs are available through the Area Career and Technical School. These programs are provided through the efforts and facilities of several area schools in Douglas County School District and Arapahoe Community College. Interested students should see their counselor.

Program Possibilities

Agriculture Education
Auto Technology
Aviation Technology
Certified Nurses Aide (ACC)
Construction Management
Cosmetology
Criminal Justice
Culinary Arts (ProStart)
Cyber Security
Drone Science
EMT
Fire Science
Teacher Cadet

Aide - Office
Course: 48855 (Fall) / 48856 (Spring)
Semester: .25 elective credit
Grade: 11-12
Prerequisite: Recommendation from office staff
Students will work on various office projects including distribution of information to students and faculty. A pass/fail grade will be given.

Aide - Counseling
Course: 48875 (Fall) / 48876 (Spring)
Semester: .25 elective credit
Grade: 11-12
Prerequisite: Recommendation from counselor and office staff
Students will work on various office projects including distribution of information to students and faculty. A pass/fail grade will be given.

Aide - Teacher
Course: 48885 (Fall) / 48886 (Spring)
Semester: .25 elective credit
Grade: 11-12
Prerequisite: Application and recommendation from teacher

Peer Internship
Course: 40420
Semester: .5 elective credit
Grade: 10-12

Prerequisite: Approval of Special Education instructor and application required.
This course provides students the opportunity to interact with students who have varying levels of disabilities. Students are trained in philosophy to ensure that all students are included in regular education classroom activities as well as to serve when needed in a tutorial role. Appropriate for anyone wishing to make a difference in another student's life.

English Strategies I, II, III & IV
Course #: Strat I = 20013S1 / 20013S2
Strat II = 20034S1 / 20034S2
Strat III = 20052S1 / 20052S2
Strat IV = 20162S1 / 20162S2
Year: 1.0 Language Arts Credit
Prerequisite: This course is for Special Education students. Teacher approval is required.
This class will focus on developing skills and strategies for students to read and write meaningfully in a high school environment. Emphasis will be placed on developing reading, writing, and communication skills, as well as organizing and synthesizing information. The desired outcome is that students will be able to read and write meaningfully for a variety of purposes and audiences.

Math Strategies I
Course #: 20200S1 / 20200S2
Year: 1.0 Mathematics Credit
Prerequisite: This course is for Special Education students. Teacher approval is required.
This course will focus on developing the skills and strategies needed for students to develop math proficiency in a high school environment. Emphasis is placed on developing math skills and remediating computational skills. District Content Standards 1, 2, and 6, together with IEP goals and objectives, are used as the basis with emphasis on life skills application. Increase basic math skills to prepare students for beginning Algebra with the emphasis on pre-algebra concepts. This class can be very individualized to meet the needs of students at their level of functioning and to prepare them for future class placement.

Math Strategies II
Course #: 20202S1 / 20202S2
Year: 1.0 Mathematics Credit
Prerequisite: This course is for Special Education students. Teacher approval is required.
This course will focus on developing the skills and strategies needed for students to develop math proficiency in a high school environment. Emphasis is placed on developing math skills and remediating computational skills. District Content Standards 1, 2, and 6, together with IEP goals and objectives, are used as the basis with emphasis on life skills application. Increase basic math skills to prepare students for beginning Algebra with the emphasis on pre-algebra concepts. This class can be very individualized to meet the needs of students at their level of functioning and to prepare them for future class placement.

Government Strategies
Course #: 20051
Semester: 0.5 Social Studies Credit
Prerequisite: This course is for Special Education students. Teacher approval is required.

This course will focus on developing skills in social studies. Emphasis is placed on world geography and economic principles through analysis of US and European history. This class can be individualized to meet the needs of students at their level of functioning and to prepare them for future class placement.

World History Strategies

Course #: 20079S2

Semester: 0.5 Social Studies Credit

Prerequisite: This course is for Special Education students. Teacher approval is required.

This course is specifically designed for students with an Individualized Education Plan (IEP) with a modified course focusing on pre-history to current day.