



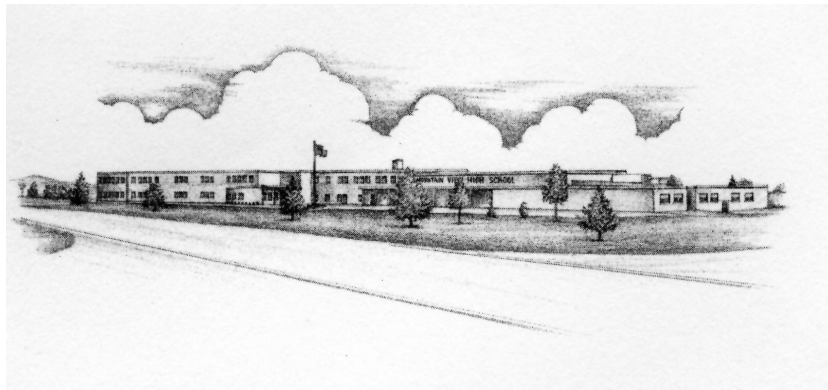
# Mountain View School District

*“A Community’s Commitment to Excellence”*

## Program of Studies

Grades 9-12

**2024-2025**



Mountain View Jr/Sr High School  
11749 State Route 106  
Kingsley, PA 18826  
(570)434-2501

Mountain View Board of Education

Mr. Jason Richmond, President  
Mr. Kenneth Decker, First Vice-President  
Mr. Michael Barhite, Second Vice-President  
Mr. Dan Very, Treasurer  
Mr. Derek O'Dell  
Mr. Michael Molenko  
Ms. Louise Cator  
Mr. Tracy Flynn  
Mr. Michael Talabiska

Administration

Dr. Michael S. Elia, Superintendent  
Dr. Mark Lemoncelli, Principal  
Mr. Daniel Lishok, Assistant Principal  
Mr. Andrew Snyder, Director of Curriculum and Instruction  
Mrs. Erica Loftus, Director of Special Services

High School Counselors

Ms. Allison Martino - 8, 10, 12  
Ms. Samantha Hayden - 7, 9, 11  
Mrs. Jamie White - At Risk Counselor

## TABLE OF CONTENTS

Scheduling Process Tentative Dates	4
Teacher Recommendations	4
Student Schedule Changes / Free Time Policy	4
Grading System	5
Honor Roll/High Honor Roll	5
Graduation with Honors	5
Class Rank	5
Course Weighting Policy	6
Dual Enrollment Classes	6
Graduation Requirements	6
Sequence of Study	7
Career and Post-Secondary Course Requirements	9
District Assessment Information	9

## **COURSE DESCRIPTIONS**

### **LANGUAGE ARTS**

English 9	10
Honors English 9	10
English 10	10
Honors English 10	10
English 11	11
Honors English 11	11
English 12	11
Honors English 12	11
Advanced Placement English Literature and Composition	11
Theatre Arts I: Introduction to Acting and Stage Movement	12
Theatre Arts II: Technical Theater	12
Creative Writing I: Fiction	12
Creative Writing II: Play Writing and Poetry	12
Public Speaking	12
Culture Shock	12
Leadership	13

### **WORLD LANGUAGES**

French I	13
French II	13
French III	13
Honors French IV	13
Spanish I	13
Spanish II	14
Spanish III	14
Honors Spanish IV	14

### **MATHEMATICS**

Essentials for Algebra	14
Algebra I	14
Geometry	15
Honors Geometry	15
Algebra II	15
Honors Algebra II	15
Pre-Calculus	15
Honors Pre-Calculus	15
Advanced Placement Calculus	15
Statistics	15

Math Applications	15
<b>SCIENCE</b>	
Physical Science 9	16
Honors Physical Science 9	16
Biology	16
Honors Biology	16
People and Their Environment	16
Essentials of Chemistry	16
Honors Chemistry	17
Honors Chemistry II	17
Honors Physics	17
Anatomy & Physiology	17
Advanced Placement Biology	17
<b>SOCIAL STUDIES</b>	
World History II	17
Honors World History II	17
American History I	18
Honors American History I	18
American History II	18
Honors American History II	18
American Government	18
Honors American Government	18
Advanced Placement U.S. Government & Politics	19
Psychology	19
<b>BUSINESS EDUCATION</b>	
Small Business Management	19
Accounting I	19
Accounting II	20
Business Law	20
Computer Applications	20
Business Essentials	20
<b>FAMILY AND CONSUMER SCIENCES</b>	
Post Graduation Preparation	20
Foods 101	21
Baking	21
<b>TECHNOLOGY EDUCATION</b>	
Introduction to Engineering and Design	21
Principles of Engineering	21
Civil Engineering and Architecture	21
Aerospace Engineering	21
Engineering Design and Development	21
Woodworking Technology I	21
Woodworking Technology II	22
Introduction to Graphic Communications/Arts	22
Digital Media	22
Advanced Printing and Graphic Reproduction	22
Computer Science Essentials	22
AP Computer Science Principles	23
Cyber Security	23
AP Computer Science A	23

## **ART EDUCATION**

Art I	24
Art II	24
Advanced Art/Portfolio Preparation	24
Crafts	24
Ceramics & Sculpture	24
3-D Design/Sculpture Studio	24

## **MUSIC EDUCATION**

Senior High Concert Band	25
Senior Band	25
Senior Concert Chorus	25
Senior Chorus	25
Piano I	25
Piano II	25
Beginner Guitar	26
Intermediate Guitar	26
Music Theory	26
Percussion Ensemble I	26
Percussion Ensemble II	26

## **HEALTH & PHYSICAL EDUCATION**

Health 09	27
Physical Education 09	27
Health and Wellness 10	27
Physical Education 11	27
Play Ball/Get-In Shape	27
Lifetime Sports	27
Personal Fitness	27
Advanced Physical Education	27

## **ADDITIONAL PROGRAMS AND SERVICES FOR STUDENTS**

NOLA	28
Youth Apprenticeship	28
Vocational Education Programs	28

MOUNTAIN VIEW SCHOOL DISTRICT DISCRIMINATION CLAUSE	30
-----------------------------------------------------	----

## **2024-2025 Scheduling Information**

### **Scheduling Process Tentative Dates**

March -- Parents/Guardians and students will receive a *Course Selection Form* to review and sign.

March/April -- School counselors will begin meeting with each student individually to review the *Course Selection Form*.

July -- School counselors will be available for any scheduling changes.

August -- School counselors will be available for any scheduling changes.

On the first day of school, students will receive their schedules in homeroom.

**All schedule changes must be completed by the tenth day of school.**

Any changes after that date will be due to administrative error only.

### **Teacher Recommendations**

Teachers will make recommendations for the placement of students' in Honors level courses based upon their current level of achievement, CDT and PVAAS projections while keeping in mind mitigating circumstances that may have affected their level of achievement. Students and parents have the right to decline any teacher recommendation for Honors level courses and choose to take the academic level courses instead.

If a student is unhappy with their recommendation, he or she can schedule an appointment with their classroom teacher to discuss it. Based on that conversation, the student may have the opportunity during the 4th quarter to make academic improvements. The teacher may change the recommendation based on these improvements.

### **Student Schedule Changes/ Free Time Policy**

The Mountain View School District Board of Education, administration, faculty and staff believe that every student should take full advantage of the time he/she spends in school and the many opportunities to take enriching courses. All students should balance study time with a productive use of compulsory time in school. Therefore, students must schedule at least 6 credits per academic year.

During the first **ten** days of school, student initiated schedule changes will be considered by the school counselors and principal. After the **tenth** day of school, students **will not be allowed** to revise their schedule unless there is an administrative error. The decision to change a schedule after the deadline will remain **solely with the principal**.

Changes to a schedule **will not** be made for the following reasons:

- A student prefers a different lunch (unless medically necessary).
- A student prefers a different teacher.
- A student prefers a different section of the course.

## **Grading System**

The Mountain View High School grading system is as follows:

A= 100-93  
B= 92-84  
C= 83-77  
D= 76-70  
F= 69-0

Calculation of final student average and value of final exams:

Marking Period #1 x 2 = \_\_\_\_\_  
Marking Period #2 x 2 = \_\_\_\_\_  
Marking Period #3 x 2 = \_\_\_\_\_  
Marking Period #4 x 2 = \_\_\_\_\_  
Final Exam Grade = \_\_\_\_\_  
Total \_\_\_\_\_ divided by 9 = Final Average

Final exams represent 1/9 of the final average for each course

## **Honor Roll & High Honor Roll**

In order to qualify for the honor roll, a student must have a minimum overall average of 88.0% in all courses. There shall be no grade of unsatisfactory or incomplete in any course, nor shall any numerically graded course be below 82.0%

In order to qualify for the high honor roll, a student must have a minimum overall average of 93%. There shall be no grade of unsatisfactory or incomplete in any course, nor shall any numerically graded course be below 88%.

## **Graduation with Honors**

In order for a student to graduate with honors, he/she must maintain a four year average (grades 9-12) of 91% in all courses. Students maintaining an average of 91% to 92.999% will receive the distinction of Cum Laude; 93% to 94.999% average will be distinguished as Magna Cum Laude; 95% and above will be distinguished as Summa Cum Laude.

## **Class Rank**

The class rank and final averages will be computed on the 145th day for marks up to and including the 3rd marking period only. One further set of nine weeks' marks will be recorded on report cards at the end of the school year. To detect any significant change in class rank, teachers submit midpoint grades for the fourth marking period for the top twenty seniors on day 157. The class standing and final averages will be recalculated for any students that may have a change in graduation status. Any changes in the final average will result in a reranking of the top twenty students. Honors status for graduation will be based on this day 157 average. (Per board policy)

## **Course Weighting Policy**

For the purpose of calculating a student's GPA, the following percentages will be applied to a student's final grade in the following course categories as determined by the rigor of the course. Those courses are marked with ★ in the Program of Studies.

- **Advanced Placement Courses: 1.075**
  - o Ex – 91 final average X 1.075 = 98 final average
- **Honors Courses: 1.025**
  - o Ex – 91 final average X 1.025 = 93 final average

## **Dual Enrollment Classes**

Students in grades 10-12 may take designated courses for college credit through agreements with local colleges for a reduced tuition cost. These courses are marked with a + in the Program of Studies. Talk to your school counselor for enrollment costs, instructions, and deadlines.

The following courses are currently Dual Enrollment Courses:

Public Speaking	Honors Pre-Calculus	Statistics
Honors Physics	Honors American History II	Honors Chemistry II
Spanish III	Honors Spanish IV	Psychology
AP Calculus	Cybersecurity	

## **Graduation Requirements**

Through the Comprehensive Planning process, the Mountain View School District's Board of Education approved the following graduation requirements that will require students to complete a rigorous academic program of studies in order to be eligible for graduation. These requirements will include the following disciplines and the number of units required:

### **For the graduating classes of 2019 and beyond**

- English/Language Arts	4
- Social Studies	4
- Mathematics - (Grades 9, 10, and 11)	3
- Science – (Grades 9, 10, and 11)	3
- Physical Education	1.0
- Health	1.0
- Family and Consumer Sciences	0.5
- Business (SCCTC students are exempt)	0.5
- <b>Electives</b>	<b>7</b>
<b>TOTAL</b>	<b>24</b>



## Sequence of Study

### Grade 9

<u>Course</u>	<u>Credits Required</u>
English 9	1
Math	1
Physical Science	1
World History II	1
<b>Physical Education</b>	0.5
<b>Health 9</b>	0.5
Electives	2
<b>Total Credits</b>	7

### Grade 10

<u>Course</u>	<u>Credits Required</u>
English 10	1
Math	1
Biology	1
Am. History I	1
<b>Health and Wellness 10</b>	0.5
<b>Intro to Business</b>	0.5
Electives	2
<b>Total Credits</b>	7

### Grade 10 CTC Students

<u>Course</u>	<u>Credits Required</u>
English 10	1
Math	1
Biology	1
Am. History I	1
CTC	3
<b>Total Credits</b>	7

Electives	2
<b>Total Credits</b>	7

**Grade 11 CTC Students**

**Grade 11**

<b><u>Course</u></b>	<b><u>Credits Required</u></b>
English 11	1
Math	1
Science	1
Am. History II	1
<b>Physical Education</b>	0.5
<b>Post Graduate Prep</b>	0.5

<b><u>Course</u></b>	<b><u>Credits Required</u></b>
English 11	1
Math	1
Science	1
Am. History II	1
CTC	3
<b>Total Credits</b>	7

**Grade 12**

<b><u>Course</u></b>	<b><u>Credits Required</u></b>
English 12	1
Am. Government	1
Electives	5
<b>Total Credits</b>	7

**Grade 12 CTC Students**

<b><u>Course</u></b>	<b><u>Credits Required</u></b>
English 12	1
Am. Government	1
Physical Education	0.5
Health	0.5
FACS	1
CTC	3
<b>Total Credits</b>	7

## **Career and Post-Secondary Course Requirements**

The Mountain View Career Team has designed developmentally appropriate career exploration requirements at every level to address students' academic and vocational planning.

<u>Grade 9</u>	Naviance Assessments and projects in Health Career Fair Optional Tour of Susquehanna County Career and Technology Center
<u>Grade 10</u>	Naviance Assessments and projects in Introduction to Business Job Shadowing College Tour Field Trip exploring private, public and technical post-secondary options
<u>Grade 11</u>	Naviance Assessments and projects in Post Graduate Preparation ASVAB Testing and career exploration based on results Career Fair Optional post-secondary education fair and college visit field trip

An accumulation of all student career related work will be kept electronically in our Naviance program. All of these pieces of evidence will be reviewed for completion leading up to graduation.

## **District Assessment Information**

Pennsylvania assesses academic standards in ELA (Reading/Writing), Mathematics, and Science through the Keystone Exams. These standards identify what a high school student should know and be able to do at the end of three specific courses: **Algebra I, Biology, and English 10**. The Keystone Exam for a given subject is a standards-based, criterion-referenced assessment used to measure a student's attainment of the PA Core Standards, while also determining the degree to which school programs enable students to obtain proficiency of the standards.

**To help students become proficient on the Keystone Exams, mandatory remediation classes may be provided to students during the first semester who achieved either Basic or Below Basic level on a Keystone Exam, and those students will be retested in the Winter Wave during December and January. In the second semester, remediation will also be required for those students currently enrolled in a Keystone Exam course (Algebra I, Biology, and/or English 10), whose teacher recommends it based upon class average, CDT and PVAAS data.**

Classroom Diagnostic Tools (CDT) and the Pennsylvania Value Added Assessment System (PVAAS) in Science, Reading, and Mathematics will be used to identify student strengths and weaknesses in an effort to help them meet and exceed the state standards.

# COURSE DESCRIPTIONS

+ = Dual Enrollment Course (See page 4)

(P) = Prerequisite

★ = Weighted Course (See page 4)

## LANGUAGE ARTS

The Language Arts curriculum offers four years of required courses in honors and/or academic English in grades 9 through 12.

### **English 9 (109)--Introductory Survey to High School Literature 1 credit Grade 9**

Spanning many different cultures and genres, English 9 is an introductory survey of literature at the high school level with classic texts such as *Romeo and Juliet*, *The Odyssey*, and *To Kill a Mockingbird*, and a variety of short stories, poetry, and non-fiction. Along with instruction in vocabulary and writing skills, the class focuses on interpretation and analysis of texts with the goal of developing the skills needed for success in reading, writing, and standardized exams at the secondary level. As in previous years, students will also be required to complete independent reading and demonstrate their understanding of it.

### **★ Honors English 9 (119)--Introductory Survey to High School Literature 1 credit Grade 9** **(P) 92% in ELA 8 or 85% in Honors ELA 8 and/or teacher recommendation.**

Honors English 9 is a more intensive introductory survey of literature at the high school level using classic texts such as *Romeo and Juliet*, *The Odyssey*, and *To Kill a Mockingbird*, as well as a variety of short stories, poetry, and non-fiction texts. The course focuses on interpretation and analysis of texts alongside writing and vocabulary instruction with the goal of developing the skills needed for success in English at the secondary level and standardized exams. Students will also be required to complete independent reading and demonstrate their understanding of it. Additionally, students will have a summer reading and writing assignment to complete before the school year begins.

### **English 10 (110)--Introduction to World Literature 1 credit Grade 10**

English 10 exposes students to classic and contemporary literature from around the world. Units are designed to instruct students in the elements of literature, as well as written and oral communication. Students will read short stories, novels, poetry, and drama throughout the year and analyze these works through class discussion and writing in order to gain a better understanding of our world and ourselves. This course also assists students in their preparation for the Pennsylvania Keystone Literature Exam. Students will also be required to complete independent reading and demonstrate their understanding of it.

### **★ Honors English 10 (120)--Introduction to World Literature 1 credit Grade 10** **(P) 92% in English 9 or 85% in Honors English 9 and/or teacher recommendation**

Honors English 10 provides students with an intensive study of both traditional and contemporary literature from around the world. Units are designed to reinforce the elements of literature, written and oral communication, and to strengthen critical thinking skills. Students will read short stories, novels, poetry, and drama throughout the year and analyze these works in class discussion and writing in order to gain a better understanding of our world and ourselves. This course also assists students in their

preparation for the Pennsylvania Keystone Literature Exam. Students will also be required to complete independent reading and demonstrate their understanding of it; additionally, students will have a summer reading and writing assignment to complete before the school year begins.

**English 11 (111)--Introduction to American Literature**

**1 credit  
Grade 11**

English 11 is a survey of American literature from the colonial period to the present. Students will encounter many celebrated writers in different genres and well-known selections from American literary history by reading excerpts and novels. Some of the major themes include building democracy, the individual and society, idealism versus realism, and identity in the modern world. In addition to continued instruction in vocabulary and writing skills, the course focuses on analyzing literature through citing textual evidence to demonstrate understanding.

★ **Honors English 11 (121)--Introduction to American Literature**

**(P) 92% in English 10 or 85% in Honors English 10 and/or teacher recommendation**

**1 credit  
Grade 11**

English 11 is a survey of American literature from the colonial period to the present. Students will encounter many celebrated writers in different genres and well-known selections from American literary history by reading excerpts and several novels. Some of the major themes include building democracy, the individual and society, idealism versus realism, and identity in the modern world. In addition to continued instruction in vocabulary and writing skills, the course focuses on analyzing text to both deepen and demonstrate understanding as well as prepare students for college level writing and reading. Additionally, students will have a summer reading and writing assignment to complete before the school year begins .

**English 12 (112)--Introduction to British Literature**

**1 credit  
Grade 12**

English 12 is a study of British literature from different literary periods including Anglo-Saxon, Medieval, the Elizabethan Age, Age of Enlightenment, the Romantic Movement, the Victorian Period and/or the Modern Age, through novels, poetry, short stories, and drama. Assessments will include, but not be limited to, quizzes, graded discussions, alternative assessment projects, essays, and tests. Understanding of major themes will be integrated into student writing, which will include research components. Presentation skills will be stressed through group projects and individual presentations.

★ **Honors English 12 (122) --Introduction to British Literature**

**(P) 92% in English 11 or 85% in Honors English 11 and teacher recommendation**

**1 credit  
Grade 12**

This comprehensive course in English literature is designed to acquaint students with literary periods, including excerpts from the Anglo-Saxon Period, the Medieval Age, the Elizabethan Age, the Age of Enlightenment, the Romantic Movement, the Victorian Period, and the Modern Age. The course will also emphasize writing as a process. Students will write a variety of compositions and a research paper. Students will also engage in organized presentations such as debates and poetry recitation. There are weekly vocabulary assignments. Additionally, students will have a summer reading and writing assignment to complete before the school year begins.

★ **Advanced Placement English Literature and Composition (136)**

**(P) 92% in Honors English 11 and/or teacher recommendation**

**1 credit  
Grade 12**

This class is designed to provide students with a learning experience equivalent to the introductory year of college literature coursework. Students will be engaged in careful reading and critical analysis of individual literature selections. Through the close reading of literary texts, students will deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. Students enrolling in this class are expected to have solid skills in reading and writing Standard English. All students will be challenged with a rigorous academic curriculum. Additionally, students will have a summer reading and writing assignment to complete before the school year begins.

**Theatre Arts I: Introduction to Acting and Stage Movement (138)** **½ credit**  
**\*Semester course** **Grades 9- 12**

This course will focus on the theory and performance of theater arts. The students will study the techniques of staging different types of plays, the jargon of the theater, and basic acting and movement skills. Students will develop a better understanding and appreciation of the theater through hands-on projects and study. Evaluation will be conducted via tests, research papers, quizzes, journals, and performance projects. This course will fulfill one credit towards the humanities requirement.

**Theatre Arts II: Technical Theater – A Focus on Stage Management, Set Design, Lighting Design, Costume Props, & Props Design (139)** **½ credit**

**\*Semester Course** **Grades 9- 12**  
This course will allow students to continue their study of the theory of the theater arts. The students will read and analyze selected plays from different eras of history to find sub-text of characters, artistic designs, and director's choices. Students will design sets and lighting plots; they will also act out and direct selected scenes from plays using techniques studied. Students will be evaluated via tests, research papers, quizzes, journals, performance, and projects. This course will fulfill one credit towards the humanities requirement.

**Creative Writing I: Short Fiction & Nonfiction (140)** **½ credit**  
**\*Semester Course** **Grades 9 – 12**

Students will write original short stories, as well as non-fictional biographies, essays, and personal narratives, after studying characteristics of each genre. Students will choose one writer of their choice and research his/her style to develop a unique style of their own. An anthology of the students' selected works will be printed each year. Students will be evaluated via tests, writing samples, portfolios, quizzes, journals, research papers, and projects.

**Creative Writing II: Poetry and Playwriting (141)** **½ credit**  
**\*Semester Course** **Grades 9 - 12**

Students will write original poetry and plays after studying characteristics of each genre. Students will choose poets and playwrights to research their styles and then work to develop a unique style of their own. An anthology of the students' selected works will be printed each year. Students will be evaluated via tests, writing samples, portfolios, quizzes, journals, research papers, and projects.

**+ Public Speaking (171)** **1 credit**  
**Grades 9 - 12**

This course will allow students to develop proficiency in researching, designing, and delivering speeches and presentations to a variety of audiences for a variety of purposes. The course will also allow students to participate in in-class debates and forums on current topics. Students will research topics, discover issues, and formulate positions as they apply to political, social and personal concerns.

**Culture Shock (137)** **1 credit**  
**World War II** **Grades 9-12**

**World War II was a conflict like no other in human history. Everything that made World War I such a monumental event was soon eclipsed by the scale and impact of World War II. World War II involved more nations and soldiers than any major war before or since. However, war involves more than just battle plans and soldiers fighting. It affects and changes all aspects of a society, from its art and music to its technology and economy. In this course, we'll examine how World War II impacted American culture and changed our country forever.**

## **Leadership**

**1/2 credit  
Grades 11-12**

This course will focus on the theoretical and practical applications of leadership and human relations. In answering the question, “What is leadership?” students will examine theories such as situational, participative, transformational, and servant leadership. Consideration of leadership as it applies to self, class, school and community; issues of followership; and the roles we play in life will be evaluated throughout this course. The course will be evaluated via tests, writing, quizzes, journals, communication/participation, and include a community service based culminating project.

## **WORLD LANGUAGE**

### **(All courses in this category count towards the Humanities credit requirement)**

At Mountain View High School, students may elect to study French or Spanish. A four-year sequence in both French and Spanish are presently offered.

### **French I (158)**

**1 credit  
Grades 9 - 12**

This course is an elementary French course in which the students will be introduced to the language through the National Standards for Foreign Language Learning. The students will acquire an acceptable pronunciation through oral practice and repetition exercises with the help of websites, technology, and the teacher. Students will also learn the basic elements of the language: grammar, simple vocabulary, simple verb tenses, idiomatic expressions, etc., and will be able to carry on simple conversations in French. Reading and writing skills will be reinforced through the use of dialogues from the text and exercises from the workbook. French I students will also become familiar with the culture of the French people and the importance of the French language. Periodic diversions from the normal classroom techniques will include flashcards, word games, crossword puzzles, bingo, CDs, and videos.

### **French II (159)**

#### **(P) French I**

**1 credit  
Grades 10 - 12**

French II is a continuation of French I with more detailed emphasis on the national standards. The students will review the vocabulary and grammatical structures already studied in French I, but will now study more detailed grammatical elements of the French language such as direct and indirect object pronouns, compound tenses, irregular verbs, idioms, etc. Through the use of technology, the students will better their pronunciation and acquire the ability for listening comprehension. The acquisition of a reading vocabulary, the continual development of conversational ability, and a cultural awareness of France and the other Francophone countries is also emphasized in French II. The students will be able to read dialogues, scenes, or other appropriate materials (many of which indirectly deal with aspects of French culture) and answer both oral and written questions.

### **French III (160)**

#### **(P) French II**

**1 credit  
Grades 11 - 12**

French III is a sequential continuation of content covered in French II. However, the students will study advanced French grammar in French III, where major emphasis will be given to developing reading ability and to his/her total language ability. Students will be able to read with comprehension, to discuss, or to write about (composition) the scenes, short stories, articles, novels and poems from the different sources. The French III student will also study elements of French culture, such as geography, history, art, government, Paris, French Africa, Canada, etc.

### **★ Honors French IV (161)**

#### **(P) French III**

**1 credit  
Grade 12**

This course will emphasize more advanced French grammar and a more extended vocabulary with a wide variety of correlated French reading material from French literature, culture articles, poems, short stories, novels, French history, etc. In French IV the students will increase their language proficiency, develop better reading skills, and become more creative with oral and written expression.

**Spanish I (164)**

**1 credit**  
**Grades 9 - 12**

All four Spanish level courses are based on the five C's of the National Standards for Foreign Language Learning: Communication, Cultures, Communities, Connections, and Comparisons. In this introductory course, students engage in conversations, provide and obtain information, study cultures of Spanish-speaking countries, and understand and interpret written and spoken language on a variety of topics. Students will also learn and use the basic elements of the language -- grammar, vocabulary, simple verb tenses, and some idiomatic expressions in order to be able to carry on simple conversations.

**Spanish II (165)**

**1 credit**  
**Grades 10 - 12**

**(P) Spanish I**

This course continues to develop the skills introduced in Spanish I with more emphasis on conversation, providing information on past events, exchanging opinions, giving polite commands, and interpreting written and spoken language on a variety of topics. Emphasis on culture includes daily routines, music, dance and art.

**+ Spanish III (166)**

**1 credit**  
**Grades 11 - 12**

**(P) Spanish II**

Spanish III is a continuation of Spanish II with a more expanded vocabulary, advanced Spanish grammar, providing information on past and future events, exchanging opinions, and interpreting written and spoken language on a variety of topics. Students will demonstrate an understanding of the relationship between practices and perspectives of the Spanish culture and reinforce and further their knowledge of other disciplines through Spanish, and use language for personal enjoyment and enrichment. Cultural emphasis will focus on art, music, and folklore.

**★ + Honors Spanish IV (167)**

**1 credit**  
**Grade 12**

**(P) Spanish III**

Spanish IV is a continuation of Spanish III with more advanced grammar and composition, and an emphasis on the integration of reading, writing, listening and speaking skills. An assortment of Spanish, Mexican, and Latin American material, emphasizing art, music, literature, and dance will be used to improve acquired skills and develop an understanding of the relationship between the practices and perspectives of the culture studied.

## **MATHEMATICS**

**Essentials for Algebra (228)**

**1 credit**

**(P) Teacher recommendation**

**Grade 9**

This course will cover the basic concepts and applications of algebra. Fundamental algebraic topics will be studied and the use of algebra will be investigated. This course is based on the need for all students to be exposed to algebraic concepts to better prepare them for the Algebra I course.

**Algebra I (206)**

**1 credit**

**(P) Teacher recommendation**

**Grade 9-10**

This course emphasizes the overall structure of the real system and the manipulative skills of algebra as reflections of this structure. The concepts of variables, number properties, positive and negative numbers, factoring, relationships between numbers, and mathematical symbols and notation are studied and then applied to the simplification of the evaluation of and performing of operations with algebraic expressions. The concepts of sets and number properties are applied to the solution and the graphing of equations and



inequalities. Emphasis is placed on the development of reasoning, changing words into symbols, and the application to word problems.

**Geometry (208) 1 credit**  
**(P) Algebra I Grade 9-12**

Geometry is a deductive system of reasoning about points, lines, planes, and/or combinations of these which arrives at conclusions from accepted and proven facts. Topics covered are points, lines, planes, angles, parallel lines and planes, congruent triangles, similar polygons, right triangles, circles, areas of plane figures, areas and volumes of solids, proofs, and coordinate geometry.

★ **Honors Geometry (209) 1 credit**  
**(P) 92% in Algebra I or 85% in Algebra I-J and/or teacher recommendation Grades 9-10**

Honors Geometry will include the same concepts and operations as Geometry. However, there will be a faster pace and more in-depth coverage with less repetitive review and drill. This course is recommended for college-bound students with good mathematical skills.

**Algebra II (210) 1 credit**  
**(P) Geometry Grades 10-12**

Students will work with functions including polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers.

★ **Honors Algebra II (211) 1 credit**  
**(P) 92% in Geometry or 85% in Honors Geometry and/or teacher recommendation Grades 10-11**

Honors Algebra II will include the same concepts and operations as Algebra II. However, there will be a faster pace and more in-depth coverage with less repetitive review and drill. This course is recommended for college-bound students with good mathematical skills.

**Pre-Calculus (212) 1 credit**  
**(P) Algebra II or Honors Algebra II Grades 11-12**

This advanced math course covers a wide range of topics beginning with a review of algebra. New topics discussed include composite and inverse functions, circle and triangle trigonometry, exponents, logarithms, and polynomials.

★ **+ Honors Pre-Calculus (213) 1 credit**  
**(P) 92% in Algebra II or 85% in Honors Algebra II and/or teacher recommendation Grades 11-12**

This advanced math course covers a wide range of topics beginning with a review of algebra. New topics discussed include composite and inverse functions, circle and triangle trigonometry, exponents, logarithms, and polynomials.

★ **+ Advanced Placement Calculus (215) 1 credit**  
**(P) 92% in Pre-Calculus; 85% in Honors Pre-Calculus and/or teacher recommendation Grade 11-12**

Advanced Placement Calculus consists of studies in calculus and related topics which are comparable to similar courses in colleges and universities. This course will adhere to the College Board requirements for an advanced placement course and prepares the student for the advanced placement exam. The score achieved in this national exam determines the amount of college credit that the student may receive in Calculus.

**+ Statistics (216) 1 credit**  
**(P) Algebra II and/or administrative approval Grades 11-12**

Statistics will include topics such as measures of central tendency, normal curve, T-test, Z-test, standard deviation, and probability.

**Math Applications (205)****1 credit****(P) Teacher recommendation. Can only be taken as third and final math credit****Grades 11-12**

The application of arithmetic, algebraic and geometric concepts will be integrated into real-life situations. Studies, projects and other hands-on activities will be used to demonstrate the role of mathematics in the everyday routine.

**SCIENCE****Physical Science 9 (309)****1 credit****Grade 9**

Physical Science will explore many different topics pertaining to physics, chemistry and earth science including: effects of forces, transformations of energy, structure of matter, behaviors of matter, the changes in matter, plate tectonics, minerals and space science. The focus is on using techniques to foster reading for learning and cooperative classrooms. Students who are engaged in their learning build skills for success far outside of our science class.

**★ Honors Physical Science 9 (330)****1 credit****(P) 92% in Science 8 and/or teacher recommendation****Grade 9**

Honors Physical Science will explore many different topics pertaining to physics, chemistry and earth science including: effects of forces, transformations of energy, structure of matter, behaviors of matter, the changes in matter plate tectonics, minerals and space science. This course has an academic focus and consists of abundant laboratory experiences. All efforts will be focused on preparing students for post-secondary education through an intensive science course. The focus is on using techniques to foster reading for learning and cooperative classrooms. Students who are engaged in their learning build skills for success far outside of our science class.

**Biology (310)****1 credit****Grade 10**

General Biology covers Basic Principles of Life, Chemistry of Life, Homeostasis and Transport, Bioenergetics, Cell Growth and Reproduction, Genetics, Ecology and Evolution. The course involves hands-on and virtual laboratory experiences, lecture, study island, and cooperative learning. This course will prepare students for success on the Biology Keystone Exam.

**★ Honors Biology (311)****1 credit****(P) 92% in Physical Science 9 or 85% in Honors Physical Science 9 and/or teacher recommendation****Grade 10**

Honors Biology covers Basic Principles of Life, Chemistry of Life, Homeostasis and Transport, Bioenergetics, Cell Growth and Reproduction, Genetics, Ecology and Evolution. The course involves hands-on and virtual laboratory experiences, lecture, study island, independent research, and cooperative learning. This course will prepare students for success on the Biology Keystone Exam as well as Advanced Placement Biology which is why the rigor and pace is accelerated.

**People and Their Environment I (312)****1 credit****Grades 10 - 12**

People and the Environment is a course designed to introduce students to the study of the environment around them and how people can affect and are affected by that environment. The students will study various Environmental Science and Ecological concepts. Topics studied will include: Wildlife, Aquatics, Forestry, and Sustainable Energy and Living. Another focus of the class is connecting current real-life issues and concerns to the content at a local and global level and discussing how these topics affect our students.

**Essentials of Chemistry (313)****1 Credit****(P)****Algebra I****Grades 10-12**

The purpose of Essentials of Chemistry is to provide students with a general background in chemistry, chemical theory, and laboratory experiments. The major areas of study include Safety and Matter, Measurement and Dimensional Analysis, The Atom/Periodic Table, Electronic Structure and Periodic Trends, Bonding and Nomenclature, Chemical Reactions, Chemical Quantities and Chemical Quantities in Reactions, Solutions and Stoichiometry, Aqueous Reactions, and Gases. Emphasis will be placed upon problem solving and developing critical and analytical thinking skills.

**Honors Chemistry (314)**

**1 credit**

**(P) Algebra I**

**Grades 10 – 12**

Although Chemistry is usually taken in the junior year, a student may schedule this course as a sophomore with permission of the instructor and counselor. The course content includes such topics as Safety and Matter, Measurement and Dimensional Analysis, The Atom/Periodic Table, Electronic Structure and Periodic Trends, Bonding and Nomenclature, Chemical Reactions, Chemical Quantities and Chemical Quantities in Reactions, Solutions and Stoichiometry, Aqueous Reactions, and Gases. Laboratory experiments and laboratory reports are also a key component to enhance knowledge in topics listed above.

★ **+ Honors Chemistry II (332)**

**1 credit**

**(P) 92% in Chemistry and/or teacher recommendation**

**Grades 11 – 12**

This course is designed for those students who will need a chemistry background for college and is a dual enrollment course. The course expands upon the topics covered in Chemistry and extends the knowledge base to include: Thermochemistry, Thermodynamics, Entropy, Solutions, Kinetics, and Equilibrium. The course also has a very strong laboratory component where laboratory reports and presentations play a major role.

★ **+Honors Physics (315)**

**1 credit**

**(P) Pre-Calculus (can be taken concurrently) and/or teacher recommendation.**

**Grade 11-12**

This course is designed to introduce students to a college level physics course and is also a dual enrollment course. The course content mainly studies the different forms of energy. Topics studied include: Motion, Momentum, Gravity, Waves, Electricity, and Optics. Laboratory experiences are varied and an important component of this course.

**Anatomy & Physiology (321)**

**1 credit**

**(P) Biology and/or teacher recommendation**

**Grades 11 - 12**

Anatomy and physiology is a course that will enable students to develop an understanding of the relationships between the structures and functions of the human body. This course will involve laboratory activities, dissections, textbook material, models, and diagrams. Many of these activities are hands-on, self-directed work. This course would be especially helpful for students interested in any facet of the medical field.

★ **Advanced Placement Biology (323)**

**(P) 92% in Biology or 85% in Honors Biology, Chemistry and teacher recommendation**

**2 credits**

**Student must have a proficient or advanced score on the Keystone Examination**

**Chemistry I may be taken concurrently.**

**Grades 11 - 12**

The Advanced Placement Biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. Upon qualification by national examination, successful students are usually permitted by most United States colleges and universities to receive credit for biology, take upper-level biology courses, or fulfill a basic requirement for laboratory-science course and thus have more time to undertake other courses to pursue their specific majors. This course differs from the usual level of high school biology in respect to the type of textbook used, the range and depth of topics covered, the nature of the laboratory work, the pace of study, and the time and the effort required of the students. The curriculum is from the college board and consists of: Chemistry of Life, Cell Structure and Function, Cellular Energetics, Cell Communication and Cell Cycle, Heredity, Gene Expression and Regulation, Natural Selection, and Ecology.

## **SOCIAL STUDIES**

### **World History II (409)**

**1 credit**

**Grade 9**

World History II is a continuation of the study begun in World History I. It focuses on the development of western civilization in the 19th through 20th centuries, including the emergence of modern national governments, world encompassing conflicts, and the Cold War. There will be a continued emphasis on the development of social studies skills, and cause and effect relationships.

### **★ Honors World History II (419)**

**1 credit**

**(P) 92% in World History I and/or teacher recommendation**

**Grade 9**

Honors World History II is a continuation of the study begun in World History I. It focuses on the development of western civilization in the 19th through 20th centuries, including the emergence of modern national governments, world encompassing conflicts, the Cold War and post-Cold War world. There will be a continued emphasis on the development of social studies skills, especially research skills. Academic World History II prepares students for an academic course sequence in Social Studies, using a more analytical and in depth approach to historical themes. The course emphasizes higher order thinking skills and linking the past to the present.

### **American History I (410)**

**1 credit**

**Grade 10**

American History I is an introductory course that will cover the history of America from the first permanent settlements at Jamestown in 1607 and will proceed through the development and history of America up to and including the end of the American Civil War in 1865. Course will review some background on European exploration of the new world and progress through five units that will cover colonization and pre-American Revolution, Revolutionary Era, Democratic Ideals and the development of the U.S. Constitution, Building The New Nation and expansion, the Rise of Sectionalism and the Pre-Civil War Era, and the American Civil War. This course will give the students a background in American History and will build upon this foundation in a manner that will give the students a well-rounded understanding of the political, social, and economic factors that have shaped the American nation. The course will stress not only who, what, where, when, and how of history but will specifically focus on the "why" aspect so that students will understand American history and how it has shaped our present day nation.

### **★ Honors American History I (411)**

**1 credit**

**(P) 92% in World History II or 85% in Honors World History II; and/or teacher recommendation**

**Grade 10**

Honors American History I is offered as an in-depth look at American History for students who are either college bound or are interested in a more comprehensive and thematic approach to history. The course curriculum will follow the same chronology as the regular American History I course, but will focus on giving the student a more advanced perspective of the cause and effect relationships in American History. Course content will focus on making history relevant to students by using primary source documents, original research, authentic projects, and critical thinking activities. It will also create a link between the past and present that helps students understand the role of history in today's ever-changing world. Critical thinking and writing on social studies related topics will be a primary focus area.

### **American History II (412)**

**1 credit**

**(P) American History I**

**Grade 11**

American History II is a continuation of American History 1 that covers the post-Civil War Reconstruction period from 1865 to the present day. The course begins with a review of the political, social, and economic situation in America at the close of the American Civil War, and progresses through 6 units using a chronological and thematic study of the major historical events of the end of the 19<sup>th</sup> Century until the end of the 20<sup>th</sup> Century. The course will focus on cause and effect relationships that build an understanding of the changes in America and the impact that these changes will have on the future of our nation.

### **★ + Honors American History II (413)**

**1 credit**

**(P) 92% in Am. History I or 85% in Honors Am. History I and/or teacher recommendation**

**Grades 11**

Honors American History II follows the same chronology and themes as American History II, but is designed with an emphasis on writing, technology, and higher order thinking skills. This course prepares students for an introductory college level course in American History, and encourages students to think like historians.

### **American Government (414)**

**1 credit  
Grade 12**

This course will provide students with an understanding of the principles of government. The course will examine forms of government, basic concepts of democracy, and theories on the origins of the state. Students will read and study the Declaration of Independence and the Constitution of the United States. The interactions among the three branches of government are examined. Other units of study include: the bureaucracy, foreign policy, civil liberties, and comparative political systems.

### **Honors American Government (415)**

**1 credit**

**(P) 92% in Am. History II or 85% in Honors Am. History II; and/or teacher recommendation**      **Grade 12**

Honors American Government is an in-depth study of the American political system. It is designed for students who are college bound or are interested in a more comprehensive examination of the American political system. The course curriculum will follow the same chronology as American Government; however, this course will emphasize primary source documents, research, paper writing, debate, and higher level thinking skills.

### **★ Advanced Placement United States Government and Politics (416)**

**1 credit**

**(P) 92% in Honors American History I or II and/or teacher recommendation**      **Grades 11-12**

Advanced Placement U.S. Government and Politics is a college-level course that prepares students to take the AP U.S. Government and Politics exam. The course is designed to elaborate on the fundamentals of government and to teach students to critically analyze the governmental and political issues and institutions in the United States. Students will read from text as well as supplemental sources on a nightly basis. Students must also be aware of the political and governmental elements found in current events, internationally, nationally, and on a state and local basis. In registering for Advanced Placement US Government and Politics, students are expected to sign up for the Advanced Placement test.

### **+ Psychology (422)**

**1 credit**

**(P) 82% in previous year's Social Studies course and/or teacher recommendation**      **Grades 10-12**

Psychology is an elective course designed to give students their first look at the field of psychology. The course will introduce students to the history and development of psychology as a discipline while examining the traditional approaches to the study of human behavior and the mental processes. The course is structured in a way that will prepare students for an introductory-level college course in psychology. This course is a hands-on, project-based course that will immerse the student in the content in a manner that makes them feel that they are the psychologist performing the research and experimentation.

## **BUSINESS EDUCATION**

The Business Education curriculum is designed to provide all students with basic business, economic, and computer competencies; to prepare the job-oriented students to fill a variety of business positions; to prepare college students to have computer and communication competencies; and to help all students better understand our business world. Technology demands that our graduates be versatile in the business and academic world. The contribution that business education makes toward an individual's personal, civic, and economic well-being is an important component in this program. The Business Education Department curriculum provides a comprehensive business background addressing and promoting civic and computer awareness. The curriculum teaches skills for business and provides a foundation of educational research skills that can be utilized in other areas of the school, in college, in business, and for everyday living.

**Small Business Management (501) \*Semester course****1/2 credit  
Grade 9 - 12**

Do you think that you may want to start a small business? This class focuses on recognizing a business opportunity, starting a business based on the recognized opportunity, and operating and maintaining that business. There will be an emphasis on developing a business plan for a business that you would like to create, as well as the marketing aspects that are involved in the business world, and working with real-world scenarios.

**Accounting I (502)****1 credit  
Grade 9 - 12**

Accounting is considered to be the language of business. Students who intend to pursue a college degree in any business area will be required to take several accounting courses; therefore, Accounting I is designed for students planning to pursue a career in business or for students desiring to own or operate their business in the future. This course will build a strong foundation in accounting principles and terminology to be used in further study of accounting, marketing, management, or some other phase of business at the college level. It will also provide enough background to obtain an entry-level position in an accounting-related field upon graduation.

Basic principles of accounting are taught from beginning balance sheet through post-closing trial balance for the service and small merchandising businesses. These principles and practices are taught using realistic automated software as well as manual accounting procedures.

**Accounting II (503)****1 credit  
Grade 10 - 12****(P) Accounting I**

Accounting II is a continuation of Accounting I. It is designed for students planning to earn a business degree in college, for students desiring to own or operate their own business upon graduation, or for students who are currently enrolled in Accounting I who find this type of work interesting. The class is more individualized and emphasis is placed on a deeper understanding of business operations and procedures. As today's job market requires entry-level accounting staff to be computer literate, some of the projects in this class will be completed using the computer.

**Business Law (506) \*Semester Course****1/2 credit  
Grade 9-12**

In the complex society in which we live, the average person can become overwhelmed with possible legal problems. Therefore, familiarity with the legal process and specific laws can benefit every student, whether the study of law will be utilized personally or professionally in the future. Emphasis is placed upon the law and how it relates to the individual in areas such as the structure of the court system, criminal law, civil law, and contract law. Business Law provides the student with practical solutions to legal problems that may be encountered. Students will also have the opportunity to use the Internet for research into business law topics.

**Computer Applications (510)****1/2 credit  
Grade 9/10**

This course will provide computer literacy and proficiency using Microsoft Office, including Word, Excel, PowerPoint, and Publisher.

**Introduction to Business (Formerly Business Essentials) (508)****1/2 credit****Required course for all students in grade 10 (SCCTC students are exempt)****Grade 10**

The broad goal of this course is to introduce the student to the many areas of business and the careers open to the student. Business Essentials will provide students with a basic understanding of banking, budgeting, savings, marketing, leadership, and business ownership. Students will participate in a stock market and investment simulation project. Job shadowing opportunities will also be a requirement for the course.

**FAMILY AND CONSUMER SCIENCES**

The mission of the Mountain View School District Family & Consumer Sciences program is to demonstrate how concepts from other academic areas can be integrated and applied to an individual's daily life. Courses offered to students focus on consumer behavior, child health, child care, and early literacy. Program standards will include but not be limited to Financial and Resource Management; Balancing Family, Work and Community Responsibility; Food Science and Nutrition; and Child Development.

**Post Graduation Preparation (Formerly FACS for Life (521))** **½ credit**

**Required course for all students in grade 11**

**Grade 11**

This course will focus on financial literacy; consumer education; child health; child care; and early literacy; Consumer education will be studied through units in career readiness and financial literacy. Students will complete a career interest survey, create a resume, examine soft skills, and participate in mock interviews. Students will also analyze issues and practices that optimize the impact of caregivers and family on the needs and development of children. Topics related to parenting, child development, and child care, child health, and early literacy will be addressed.

**Foods 101 (517)**

**1 credit**

**Grades 9 - 12**

This course will introduce students to the world of food! Food safety and sanitation, measuring, reading recipes, and basic concepts in nutrition will be emphasized throughout the course. The course will emphasize basic information dealing with planning and preparing simple food items. Activities will include exploring the MyPlate.gov website and other web based resources. Students will interpret nutritional information given on food labels. Meal planning, preparation, and evaluation will be taught through planning and preparing breakfast, lunch, dinner, and snack food items. Students will be involved in food labs that apply concepts learned in class. Students will sample and evaluate foods prepared in class.

**Baking (519)**

**1 credit**

**(P) Foods 101**

**Grades 10 - 12**

This course focuses on baking and how it can be applied to a wide variety of foods. Baking is a technical and often more challenging method for preparing food. Food safety and sanitation, measuring, reading recipes, and basic concepts in nutrition will be emphasized throughout the course. Students will bake fruits, vegetables, grains, protein, and dairy food items. They will examine how these foods can be utilized in breakfast, lunch, and dinner menus, as well as desserts and snacks. Students will compare and contrast the nutritional value and convenience of preparing the same foods using a variety of other cooking methods. Students will sample and evaluate foods prepared in class

## **TECHNOLOGY EDUCATION**

**Introduction to Engineering Design (712)**

**1 credit**

**(P) Algebra I**

**Grade 9-12**

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work.

**Principles of Engineering (713)**

**1 credit**

**(P) Introduction to Engineering Design**

**Grades 10-12**

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

**Civil Engineering and Architecture (715)**

**1 credit**

**(P) Principles of Engineering**

**Grades 11-12**

Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3-D architectural design software.

**Aerospace Engineering (716)**  
**(P) Principles of Engineering**

**1 credit**  
**Grades 11-12**

This course propels students' learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles.

**Engineering Design and Development (718)**  
**(P) Principles of Engineering**

**1 credit**  
**Grades 11-12**

The knowledge and skills students have acquired throughout the engineering pathway come together in this junior/senior level engineering capstone course. In Engineering Design and Development students identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing Engineering Design and Development ready to take on any post-secondary program or career.

**Woodworking Technology I (703)**

**1 credit**  
**Grades 9- 12**

Students will be introduced to the fundamentals of woodworking. Students will learn to measure, design and construct basic woodworking projects. Focus will be placed on: hand and power tool use, lab safety, gluing and clamping, project construction, and finishing techniques. Students will learn how to utilize the CNC router in the production of their work. Students will produce a minimum of five take-home projects in this course. Possibilities include cutting boards, picture frames, benches, shelves, small tables and other small projects.

**Woodworking Technology II (711)**  
**(P) Woodworking Technology I**

**1 credit**  
**Grades 10- 12**

This course is designed primarily as an individual study experience in woodworking with a focus on design and the elements and principles of design. Possible areas of study include advanced lathe work, furniture design, carving, bending & laminating, refinishing, veneering, jigs/fixtures, and manufacturing. Special emphasis will be placed on developing skills in planning/organization, cost analysis, 3D modeling, equipment maintenance, problem solving and design. This course will fulfill one credit towards the humanities requirement.

**Introduction to Graphic Communications/Arts (704)**

**1 credit**  
**Grades 9 – 12**

This course is a basic overview of the graphics industry. Students will gain a general understanding of the following areas: career opportunities, color, type, desktop publishing, digital imaging, photography, and design. Hands-on problem-solving activities using computer software applications will accompany each of the course units. This course will fulfill one credit towards the humanities requirement.

**Digital Media (705)**

**1 credit**  
**Grades 9 - 12**

This course will focus on digital communication skills including social, broadcast, digital and print media. Students will explore the following areas: career opportunities, lighting, video production, website creation, digital footprints, journalism, digital photography and many other areas. Each unit will be reinforced with appropriate hands-on activities using computer software. This course will fulfill one credit towards the humanities requirement.

**Advanced Printing and Graphic Reproduction (707)**  
**(P) Introduction to Graphic Communications/Arts**

**1 credit**  
**Grades 10 – 12**

The course focuses on the major production processes of the graphics industry. Advertising design and layout, offset lithography, multi-color screen-printing, registration, bulk production, and product



finishing-binding-packaging are a few sample units explored in the course. Students will design and reproduce single and multi-color products throughout the course. This course will fulfill one credit towards a humanities requirement.

### **Computer Science Essentials (714)**

**1 credit**  
**Grades 9 – 12**

This exciting course exposes students to fundamentals, and tools used by computer science professionals. Students begin by using visual, block-based programming languages before transitioning to text-based programming. Students will create apps, learn how to program self driving vehicles, and learn to use Python® programming. Students will apply computational thinking practices, build their vocabulary, and collaborate in this course. This practice is essential so students can model after computer science professionals when they brainstorm to create products that address topics and problems important to them. Students interested in learning more about computers in general should begin with this course.

### **AP Computer Science Principles (717)** **(P) Computer Science Essentials**

**1 credit**  
**Grades 10-12**

This course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Computer Science Principles helps students learn about the way computers work, develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, light, sound and motions sensors, and simulation.

### **Cybersecurity (719)**

**1 credit**  
**Grades 10-12**

Whether seeking a career in the growing field of cybersecurity or learning to defend their own personal data or a company's data, students in Cybersecurity establish an ethical code of conduct while learning to defend data in today's complex cyberworld. Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

## **Suggested Pathways**

### **Engineering Pathway:**

- Course 01) Introduction to Engineering Design
- Course 02) Principles of Engineering
- Course 03) Aerospace Engineering or Civil Engineering and Architecture
- Course 04) Engineering Design and Development

### **Computer Science Pathway:**

- Course 01) Computer Science Essentials
- Course 02) AP Computer Science Principles
- Course 03) AP Computer Science A or Cybersecurity
- Course 04) AP Computer Science A or Cybersecurity

## **ART EDUCATION**

### **(All courses in this category count towards the Humanities credit requirement)**

Living in a culture saturated with visual images demands visual literacy on the part of any person. The Art Department is committed to providing basic literacy in the creation and viewing of 2 and 3-dimensional forms. Visual Arts courses are designed to provide students with a variety of experiences that challenge all levels of experience from the dabbler to the career artist. It is our hope that students will be more attuned to the beauty that exists within the history and cultures of others as well as their own environment. Students will be acquiring the skills and sensibility to make aesthetic decisions throughout their lives.

#### **Art I (800)**

**1 credit**  
**Grades 9 - 12**

This course is an elective humanities course open to any student in grades 9-12 serving as an introduction to the visual arts. Art I is primarily a study of the elements of art and the principles of design and their impact on art production, art history, and art criticism. Students will learn how to criticize works of art as well as completing a variety of hands-on projects to include drawing and design, painting, ceramics, and sculpture. Media to be explored include pencil, pen and ink, tempera, watercolor, clay, and plaster.

#### **Art II (801)**

**1 credit**  
**Grades 10 - 12**

##### **(P) Art I**

This course is an elective humanities course open to any student in grades 10-12 who have satisfactorily completed the Art I course. This course will further involve students in the areas of art production, art history, and art criticism. There will be a concentration on techniques and media used in art production. These will include a variety of drawing and painting techniques, hand built and wheel-thrown ceramics, relief sculpture, handmade paper and 3-D design. Art II students will be involved in studies of art history and aesthetics through the viewing of master works of art. Periodic reading of articles and the writing of short essays on specific artists and their styles and particular art movements will be required.

#### **Advanced Art/Portfolio Preparation (802)**

**1 credit**  
**Grades 11 - 12**

##### **(P) 90% or higher in previous art class or teacher recommendation**

This course is an elective humanities course open to any junior or senior who has successfully completed Elective Art I and II. Designed for the serious art student, this course involves in-depth experiences in studio production as well as readings and discussions concerning aesthetics and contemporary art. There will be a concentration of the creation of a portfolio of 15-20 quality artworks. Each student will do a solo exhibit during the school year.

#### **Crafts (803)**

**1 credit**  
**Grades 9 - 12**

This class will include the study and creation of functional artistic objects found in contemporary cultures. Students will explore the history, culture, and media behind each craft through readings and film. Students will apply knowledge of the elements and principles of design to all studio experiences, which may include ceramics, basket making, weaving, hand-made paper and books, batik, and calligraphy.

#### **Ceramics & Sculpture (804) (Rotated course available 2023-2024)**

**1 credit**  
**Grade 10 - 12**

##### **(P) Art I or Crafts**

Students will work with clay in both hand building and wheel thrown pottery to develop problem-solving skills, craftsmanship and a sense of the aesthetic in three-dimensional form. A variety of clay types, techniques, and firing procedures will be explored to produce both functional and sculptural works. Ceramic production of other cultures will be studied. Student learning will be evaluated through critique/discussion, tests, and written art criticism.

#### **3-D Design/Sculpture Studio (805) (Rotated course available 2022-2023)**

**1 credit**  
**Grades 10 - 12**

##### **(P) Art I or Crafts**

Students will be engaged in problem solving activities using a variety of media to produce three-dimensional works of art. Media may include plaster, wire, found objects, sculpture in the round,

relief, assemblage, installation, and simple jewelry making techniques. Students will experience the sculpture of a variety of cultures through art history and art criticism classes.

## **MUSIC EDUCATION**

### **(All courses under this category count towards the Humanities requirement)**

Students in grades 9, 10, 11, and 12 may elect to expand their musical knowledge and skills by participating in an elective program.

#### **Senior High Concert Band (906)**

**1 credit  
Grades 9-12**

Senior High Concert Band is the main performing ensemble of the instrumental music program at Mountain View Senior High School. Membership is open to ninth, tenth, eleventh, and twelfth grade students who have played a band instrument for at least one year, and/or can pass an audition to the satisfaction of the director. Senior High Concert Band will perform during school functions to add to the experience of those in attendance and promote school spirit at events like: Veteran's Day Assembly, Pep Rally, Basketball games, Talent Show, etc. Performance in all concerts is mandatory. This can include the Winter Concert, March Concert, Spring Concert, and Commencement.

Senior High Concert Band is a course of study offering instruction in the improvement of instrumental techniques, tone production, and musical interpretation through a varied and challenging repertoire. It provides an opportunity for performance by means of a winter and spring concert and other performance opportunities. Participation in Concert Band allows students to be eligible for participation in extracurricular instrumental ensembles. Selected students are given an opportunity to audition for Honors, District, County, Regional and State Band Festivals.

#### **Senior Band (903)**

**½ credit  
Grades 9 – 12**

This course will cover everything listed in the **Senior High Concert Band (906)**, but is designed for those students that are requesting both Senior Chorus and Senior Band.

#### **Senior Concert Chorus (907)**

**1 credit  
Grades 9 - 12**

Senior Chorus is the main performing ensemble of the vocal music program at Mountain View Senior High. Membership is open to any student in grades nine, ten, eleven, and twelve who exhibits a genuine interest in choral music and its performance. Performances are mandatory and include the Winter Concert and the Spring Concert, and any additional concerts. Additionally, eligible students may participate in the Susquehanna County Choral Festival, Pennsylvania Music Educators Association (PMEA) District 9 Chorus, PMEA Region IV Chorus, PMEA All-State Chorus, PMEA District 9 Vocal Jazz and Jazz Fest, and National Association for Music Education (NAfME) All-Eastern Chorus

A systematic program for learning how to sing is implemented through the rehearsal of performance selections. Principles of learning concerning presentation methods, lesson order, motivation, improved recall techniques, and lesson applications have been incorporated into the course. Students will study historical aspects of performance selections, voice part classification, vocal health, tone quality, interpretation and expression, in addition to furthering their study of music literacy and the breathing mechanism.

#### **Senior Chorus (908)**

**½ credit  
Grades 9 – 12**

This course will cover everything listed in the **Senior Chorus (907)**, but is designed for those students that are requesting both Senior Chorus and Senior Band.

#### **Piano I (910) \*Semester course**

**½ credit  
Grades 9-12**

This course is open to students who want to begin a study of music and piano. It will be taught in a group or ensemble setting with emphasis on music reading and basic piano technique. Opportunities to collaborate, compose, and arrange will be interspersed into lessons.

**Piano II (911) \*Semester course** **1/2 credit**  
**(P) Piano I or Teacher Recommendation** **Grades 9-12**

This course is open to students who have successfully completed Piano I and wish to continue their study. Students will have the opportunity to refine their skills at their own pace under teacher guidance. Periodic playing tests and theory quizzes will serve as evaluations.

**Beginner Guitar (904) \*Semester course** **1/2 credit**  
**Grades 9 - 12**

This course is open to all students in grades 9 through 12 interested in playing the guitar. Individuals, as well as groups will work on learning all strings of the guitar, music fundamentals, note recognition, and chords. Proper care, tuning, and maintenance of the instruments will also be taught. More advanced classes will require individual work with chording, finger picking, and working with different musical styles. Students will be expected to complete at least one public performance during this course (Arts Alive).

**Intermediate Guitar (905) \*Semester course** **1/2 credit**  
**(P) Beginner Guitar or Teacher Recommendation** **Grades 9 - 12**

This class will be a continuation of the material covered in the Beginner Guitar course. Material to be covered will include the following: chord accompaniments, right hand strumming styles, song arranging, capo and alternate tuning, arpeggios and finger-picking style, solo and group public performance, frequent performance, and guitar theory exams.

**Music Theory (909)** **1 credit**  
**(P) Knowledge of piano keyboard or music notation** **Grades 9 - 12**

Music Theory introduces the serious music student to the basic fundamentals and rudiments of music: interval recognition, scale and key studies, melody writing, harmonization of simple melodies, and basic music composition and arranging. The textbook to be used is on the College Board AP Theory list. Much of the classroom time will be spent with the listening and analysis of examples, while students train to recognize concepts by ear and by sight.

**Percussion Ensemble I (916)\*Semester course** **1/2 credit**  
**Grades 9-12**

Any student in grades 9-12 may register for Percussion Class. This class will offer the basics of music and percussion as well as performing as a group. Students will review the basics of written music from their previous music classes, learn the fundamentals of percussion instruments, and learn to perform in small and large group settings. Students will create their own work as well as perform works and arrangements specific to Percussion Ensembles.

**Percussion Ensemble II (917)\*Semester course** **1/2 credit**  
**(P) Percussion Ensemble I** **Grades 9-12**

This course is open to students who have successfully completed Percussion Ensemble I and wish to continue their study.

## **HEALTH & PHYSICAL EDUCATION**

The Pennsylvania State Department of Health defines health as the mental, physical, and social well-being of an individual, not just the absence of illness or infirmity. The philosophy of health acknowledges that behavior of an individual affects the family and community and is determined by one's knowledge of and

attitudes toward of the 10 Health Content Areas. A few of these areas include Disease Prevention and Control (AIDS), Substance Use and Abuse, and Fitness.

The academic standards for health, safety, and physical education provide students with the knowledge and skills that will empower them to achieve and maintain a healthy life. By attaining these standards, student lives will be favorably impacted, as will the lives of those around them. By becoming and remaining healthy, students will increase their ability of achieving to their highest academic potential.

**Health 09 (601)** **1/2 credit**  
**Required for all students in grade 9** **Grade 09**

This course analyzes and evaluates factors that contribute to a healthy life. Factors impacting growth and development from birth to later maturity are explored within the ten health content areas. Topics such as goal setting, communication, and behavior patterns that affect one's health, stress management, and disease prevention will be addressed.

**Physical Education 9 (603)** **1/2 credit**  
**Required for all students in grade 9** **Grade 9**

An integral part of our educational offerings is the co-ed physical education program for ninth grade students. The program offers the knowledge and skills involved in both team and individual sports; development of attitudes regarding the positive benefits of physical conditioning, exercise and involvement in skill building in life time sports. Classes meet three days in a six-day cycle.

**Health and Wellness 10** **1/2 credit**  
**Required for all students in grade 10** **Grade 10**

This course incorporates both physical education activities including games, lifelong wellness, and team-building activities, as well as health topics such as nutrition and wellness, mental and physical health, and healthy relationships. A certification in CPR will be provided.

**Physical Education 11 (604)** **1/2 credit**  
**Required for all students in grade 11** **Grade 11**

An integral part of our educational offerings is the co-ed physical education program for eleventh grade students. The program offers the knowledge and skills involved in both team and individual sports; development of attitudes regarding the positive benefits of physical conditioning, exercise and involvement in skill building in lifetime sports. Classes meet three days in a six-day cycle.

**Play Ball/Get in Shape (605) \*Semester course** **1/2 credit**  
**Grades 9 - 12**

This is an elective course for students who like team sports and conditioning. Students will participate in approximately five of the following offered activities: soccer, field hockey, flag football, speedball, team handball, pickleball, conditioning, basketball, volleyball, mass games.

**Lifetime Sports (606) \* Semester course** **1/2 credit**  
**Grades 9 - 12**

An elective course for students who wish lifetime sports activities. Students will participate in approximately five of the following offered activities: pickleball, aerobics, volleyball, badminton, racquetball, golf, archery, softball, power walking, and orienteering (hiking with map and compass).

**Personal Fitness (607) \* Semester course** **1/2 credit**  
**Grades 10 - 12**

This course is designed for the individual who wants to get in shape. The students will be exposed to stretching, weight training, walking, running, exercise bike, Nordic track, elliptical, and other activities to increase muscle strength, muscle endurance, flexibility, and self-image.

**Advanced Physical Education (609) \* Semester course** **1/2 credit**  
**(P) Recommendation from previous physical education teacher** **Grades 10 - 12**

This course combines personal fitness and play ball. It is designed for students who want to stay in shape and have physical activity in their daily lives all year long. Students must be self-motivated and prepared to work in order to register for this course.

## **Additional Programs and Services for Students**

### **NOLA (Permission from District Administration must be obtained.)**

A cyber service program providing opportunities for students to seek courses for remediation, credit recovery, and enrichment. Interested students may contact the Guidance office at 570-434-8525.

### **Youth Apprenticeship**

**1 Credit  
Grade 12**

Career-related internships through Northern Tier Industry and Education Consortium (NTIEC) with a worksite mentor that are approved for credit. Interested students may contact the Guidance office at 570-434-8525.

### **Vocational Education Programs**

All students will be asked to decide whether they would like to participate in vocational education at Mountain View High School through the Susquehanna County Career and Technology Center. All programs are three-year programs beginning sophomore year. Students earn three credits for each year of successful completion. Students electing to enroll in the vocational education program will be exempt from their sophomore year Physical Education and Business Essentials requirement at Mountain View Jr/Sr High School. The following are the course offerings:

### **Susquehanna County Career and Technical Center**

The **Autobody/Collision Repair Program** prepares individuals to apply technical knowledge and skills to repair damaged automotive vehicles such as automobiles and light trucks. Students learn to examine damaged vehicles and estimate cost of repairs; remove, repair and replace upholstery, accessories, electrical and hydraulic window and seat operating equipment and trim to gain access to vehicle body and fenders; remove and replace glass; repair dented areas; replace excessively damaged fenders, panels and grills; straighten bent frames or unibody structures using hydraulic jacks and pulling devices; and file, grind and sand repaired surfaces using power tools and hand tools. Students refinish repaired surfaces by painting with a primer and finish coat.

The **Automotive Technology Program** provides the student with practical instruction in the diagnosis, repair, and adjustment of all phases of the automobile. Instruction will also be given on the use of up-to-date equipment used in areas such as analyzing, fuel injection, ignition, electrical controls, ABS braking systems, computer engine controls, four-wheel alignment, and State Safety Inspection. Upon successful completion of this program, the student will be able to test for a State Inspection Mechanic license, and may seek entry level employment as an automotive technician, automobile salesperson, garage salesperson, service manager, parts salesperson, or service writer.

In the **Electrical, Plumbing & Heating Program** students will experience hands-on training as well as classroom theory in Basic Residential Wiring, Plumbing, and Heating. During the first year, the student will practice developing basic skills by installing common electrical circuits, fixtures, and equipment as well as basic carpentry skills. The second year will consist of practice in joining common piping systems, fixtures, and equipment. Advanced plumbing systems will be installed during the third year. The student

will also practice basic skills needed to install, maintain, and troubleshoot residential oil fired hydronic systems and forced warm air systems. The student will also practice basic skills in the areas of stick arc welding, oxyacetylene cutting, welding, and brazing.

Students enrolled in the **Carpentry and Cabinetmaking Program** will study a number of related areas so that he/she will possess adequate entry level skills to work in the area of building construction. The carpentry unit, for example, gives actual experience in layout, cutting and fitting wood members, rafter cuts, roof or platform framing, and selection of general building materials. The students will also hone their skills completing carpentry projects and working at the on-site house construction project. Upon successful completion of this program, the student may seek employment as an apprentice cabinetmaker, materials salesperson, roofer, rough carpenter, sheetrock installer, framer, or siding installer.

The **Cosmetology Program** prepares individuals to apply technical knowledge and skills related to experiences in a variety of beauty treatments including the care and beautification of the hair, complexion and hands. Instruction includes training in giving shampoos, rinses and scalp treatments; hair styling, setting, cutting, dyeing, tinting and bleaching; permanent waving; facials; manicuring; and hand and arm massaging. Bacteriology, anatomy, hygiene, sanitation, salon management including record keeping and customer relations are also emphasized.

Beginning with the basics, students in **Food Management/Production/Services** will proceed to intermediate and advanced levels to develop a solid foundation in Culinary Arts. Through lecture and cooking demonstrations, the student will learn the techniques of fine cooking. Classes will cover the basics of cooking and baking and the provisions used to create effective and elegant menus for the most discriminating palate. With instructor supervision, the students will then hone these skills by operating their on-site restaurants, "A Touch of Class" and The Serfass Solarium. The restaurants offer the students the opportunity to culminate all laboratory experiences as they rotate through all positions in management, production, and services, perfecting skills and techniques. Upon successful completion of this program, the student may seek employment as a baker, cashier, caterer, chef, host, hostess, line cook, restaurant manager, salad maker, short-order cook, dining room service personnel, or any of the vast number of culinary positions. They may continue their restaurant management education in the hotel restaurant management or culinary arts fields.

The **Health/Medical Assisting Program** is a combination of subject matter and experiences designed to prepare individuals for entry-level employment in a minimum of three related health occupations under the supervision of a licensed health care professional. Instruction consists of core course content with clinical experiences in one or two health related occupations. The core curriculum consists of planned courses for introduction of health careers, basic anatomy and physiology, and medical terminology. Additional content includes: legal and ethical aspects of health care and communications and at least three planned courses for the knowledge and skills for the occupational area such as medical assisting, ward clerk, nursing assisting, pharmacy technician, EKG Technician, etc. Students may also continue their education in a post-secondary/college environment.

The **Criminal Justice/Police Science** program prepares individuals to apply technical knowledge and skills required to perform entry-level duties as a police officer, fire fighter, paramedic and other safety services. This program stresses the techniques, methods and procedures peculiar to the areas of criminal justice and fire protection especially in emergency and disaster situations. Physical development and self-confidence skills are emphasized due to the nature of the specific occupation(s). In addition to the application of mathematics, communication, science and physics, students receive training in social and psychological skills, map reading, vehicle and equipment operations, the judicial system, pre-hospital emergency medical care and appropriate emergency assessment, treatment and communication.

The **Vehicle Maintenance and Repair (Small Engines)** program prepares individuals to apply technical knowledge and skills to repair, service, maintain and diagnose problems on a variety of small internal-combustion gasoline engines and related systems used on portable power equipment such as lawn and garden equipment, chain saws, outboard motors, rototillers, snowmobiles, lawn mowers,

motorcycles, personal watercraft and pumps and generators. This program includes instruction in the principles of the internal-combustion engine and all systems related to the powered unit. Instruction also includes the use of technical and service manuals, state inspection code, care and use of tools and test equipment, engine tune-up/maintenance, engine overhaul, troubleshooting and diagnostic techniques, drive lines and propulsion systems, electrical and electronic systems, suspension and steering systems and service operations and parts management.

The **Welding Program** prepares individuals to apply technical knowledge and skills in gas, arc, tig, shielded and non-shielded metal arc, brazing, flame cutting, plasma cutting and plastic welding. Hand and semi-automatic welding processes are also included in the instruction. Students will learn safety practices, types of electrodes and welding rods; properties of metals, welding symbols, blueprint reading, use of equipment for testing of welds by destructive and non-destructive methods, use of manuals and specification charts, use of hand and portable power tools, use of metal fabricating equipment, and welding standards established by the American Welding Society, American Society of Mechanical Engineers and the American Petroleum Institute. Students will receive OSHA safety training and have the opportunity to become AWS Certified Welders.

### **Johnson College (For juniors and seniors)**

Dual enrollment opportunities have been established for eligible students with Johnson College. Those students interested in pursuing college level work in technical fields should please contact their school counselor to discuss available opportunities.

### **NONDISCRIMINATION CLAUSE**

Mountain View School District is an equal opportunity education institution and will not discriminate on the basis of race, color, age, creed, religion, gender, sexual orientation, ancestry, national origin, or handicap/disability in its activities, programs, or employment practices as required by Title VI, Title IX, Section 504, and the Age Discrimination Act.

For information regarding civil rights, grievance procedures, activities, and facilities that are accessible to and usable by students with a disability, contact the Director of Special Services, at 11749 State Route 106, Kingsley, PA, 18826, (570) 434-8437.

All activities and courses, including industrial arts, vocational-technical education, and physical education courses at Mountain View School District, are available to all students as required by Title VI, Title IX, and Section 504. If there are prerequisites, they are based on ability and aptitude, not on race, color, age, creed, religion, gender, sexual orientation, ancestry, national origin, or handicap/disability. Students with a disability may qualify for special services and instruction and equipment modifications in order to complete the course successfully or to participate in an activity.