The Poway Unified School District (PUSD) is an equal opportunity employer/program and is committed to an active Nondiscrimination Program. PUSD prohibits discrimination, harassment, intimidation, and bullying based on actual or perceived race, color, ancestry, national origin, nationality, immigration status, ethnicity, ethnic group identification, age, religion, marital or parental status, physical or mental ability, sex, sexual orientation, gender, gender identity, or gender expression or association with a person or a group with one or more of these actual or perceived characteristics. For more information, please contact: Title IX/Equity Compliance Officer, James Jimenez, Associate Superintendent, Poway Unified School District, 15250 Avenue of Science, San Diego, CA 92128, 858-521-2800, extension 2761, jjimenez@powayusd.com.

Open Access Policy:
Mt. Carmel High School maintains an “Open Access” policy in regards to students selecting classes. All MCHS students are allowed access to the full array of courses in our catalog. Prerequisite courses are listed in each course description in the course catalog as a recommendation. We encourage students to communicate with teachers and counselors throughout the course selection process in order to make informed decisions, but students and parents make the final decision about which courses a student will ultimately take.
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### Required & Recommended Courses for Chosen Path

**POWAY UNIFIED SCHOOL DISTRICT**  
**MT CARMEL HIGH SCHOOL**  
**Graduation Requirements**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
<th>A-G Requirements</th>
<th>Highly Selective Colleges &amp; Universities (including most UCs)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HISTORY/SOCIAL SCIENCE</strong></td>
<td>30</td>
<td><strong>A - HISTORY/SOCIAL SCIENCE</strong></td>
<td><strong>HISTORY/SOCIAL SCIENCE</strong></td>
</tr>
<tr>
<td>6 trimesters = 3 years</td>
<td></td>
<td>4 trimesters = 2 years</td>
<td>4 trimesters = 2 years</td>
</tr>
<tr>
<td>10th grade - World History (or APEC)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11th grade - US History (or APUSH)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12th grade - Civics &amp; Economics (or APGov)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ENGLISH</strong></td>
<td>40</td>
<td><strong>B - ENGLISH</strong></td>
<td><strong>ENGLISH</strong></td>
</tr>
<tr>
<td>8 trimesters = 4 years</td>
<td></td>
<td>8 trimesters = 4 years</td>
<td>8 trimesters = 4 years</td>
</tr>
<tr>
<td><strong>MATH</strong></td>
<td>20</td>
<td><strong>C - MATH</strong></td>
<td><strong>MATH</strong></td>
</tr>
<tr>
<td>4 trimesters = 2 years</td>
<td></td>
<td>6 trimesters = 3 years</td>
<td>8 trimesters = 4 years</td>
</tr>
<tr>
<td><strong>SCIENCE</strong></td>
<td>20</td>
<td><strong>D - SCIENCE</strong></td>
<td><strong>SCIENCE</strong></td>
</tr>
<tr>
<td>4 trimesters = 2 years</td>
<td></td>
<td>4 trimesters = 2 years</td>
<td>&gt;= 6 trimesters /3 years of lab science with at least 2 years in one discipline (Bio/Chem/Physics)</td>
</tr>
<tr>
<td>1 year of each: Physical and Biological</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>FINE ART</strong></td>
<td>10</td>
<td><strong>E - LANGUAGE OTHER THAN ENGLISH</strong></td>
<td><strong>LANGUAGE OTHER THAN ENGLISH</strong></td>
</tr>
<tr>
<td>2 trimesters = 1 year</td>
<td></td>
<td>4 trimesters = 2 years</td>
<td>8 trimesters = 4 years of the same language</td>
</tr>
<tr>
<td><strong>HEALTH</strong></td>
<td>5</td>
<td><strong>F - VISUAL &amp; PERFORMING ARTS</strong></td>
<td><strong>VISUAL &amp; PERFORMING ARTS</strong></td>
</tr>
<tr>
<td>1 trimester</td>
<td></td>
<td>2 trimesters = 1 year in the same discipline</td>
<td>2 trimesters = 1 year in the same discipline</td>
</tr>
<tr>
<td><strong>PHYSICAL EDUCATION</strong></td>
<td>20</td>
<td><strong>G - ELECTIVES</strong></td>
<td><strong>ELECTIVES</strong></td>
</tr>
<tr>
<td>4 trimesters = 2 years</td>
<td></td>
<td>2 trimesters = 1 year in the same discipline</td>
<td>2 trimesters = 1 year in the same discipline</td>
</tr>
<tr>
<td><strong>ELECTIVES</strong></td>
<td>85</td>
<td>Recommend at least 1 Honors/AP course</td>
<td>Strive to take several Honors &amp; AP courses</td>
</tr>
<tr>
<td>17 trimesters - all years</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Chosen from any academic or elective courses beyond the minimum required for that academic or elective area.</em></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL CREDITS REQUIRED</strong></td>
<td>230</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Recommend at least 1 Honors/AP course*
Minimum A-G Requirements for UC/CSU College Entrance

A  History / Social Science - Two years (4 trimesters) required, including one year of world history, cultures, and geography and one year of U.S. history or one-half year of U.S. history and one-half year of civics or American government.

B  English - Four years (8 trimesters) of college preparatory English that includes frequent and regular writing, and reading of classic and modern literature.

C  Mathematics - Three years (6 trimesters) of college preparatory mathematics that include the topics covered in Integrated Mathematics.

D  Laboratory Science - Two years (4 trimesters) of laboratory science providing fundamental knowledge in at least two of these three disciplines: biology (which includes anatomy, physiology, marine biology, aquatic biology, etc.), chemistry, and physics.

E  Language Other Than English - Two years (4 trimesters) of the same language other than English.

F  Visual & Performing Arts - One year (2 trimesters) in the same discipline, including dance, drama/theater, music, or visual art.

G  College Preparatory Elective - In addition to those courses required in "A-F" above, one year (two Trimesters) of college preparatory electives are required, chosen from advanced visual and performing arts, history, social science, English, advanced mathematics, laboratory science, and language other than English.

Community College Requirements

Students who have earned a high school diploma are eligible to enroll in community college.

Community colleges offer transfer agreements with local California State Universities, the University of California, and some private universities. Students may check with Palomar College or other local community colleges for more information.
### AP European History 1-2 (APEC) 1316-1317 Grade 10
Advanced Placement European History 1-2 covers the economic, political and cultural forces in Western civilization from the 15th to the Twentieth Century. This course meets the World History requirement for high school graduation. Students taking this course may take the A. P. exam in European History. This course may be used to meet the UC/CSU “A” or “G” requirement. UC approved for extra honors credit (A=5, B=4, C=3).

### AP European History 1-2 (APEC) Seminar 1709 Grade 10
This is a one-trimester class. It will allow students to refine their understanding of and writing skills in the social sciences, AP European History Seminar will further expose students to the issues of evidence, interpretation, methodology and critique in social science research, applying these skills to an independent, long-range project. Academic research methods and techniques specific to the social sciences will also be included. This course will meet PUSD elective graduation credit.

### AP U.S. Government & Politics 1-2 1395-1396 Grade 12
U.S. Government & Politics (Advanced Placement) is designed to give students a critical perspective on government, politics and economics in the United States. The class involves both the study of general concepts used to interpret American governmental, political and economic systems and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs and ideas that make up the American political reality. This course is intended to prepare students who wish to take the Advanced Placement Examination in U.S. Government and Politics. This course may be used to meet the UC/CSU “A” or “G” requirement. UC approved for extra honors credit (A=5, B=4, C=3).

### AP U.S. Government & Politics 1-2 Seminar 1710 Grade 12
This is a one-trimester class. It begins with an in-depth analysis of civil liberties and civil rights. After that, the emphasis will be on extending the content, knowledge and skills that were introduced in the AP Government 1-2 portion of the sequence of courses. It will introduce students to career options and investment strategies. This course may be used to meet PUSD elective requirement.

### AP U.S. History 1-2 1382-1383 Grade 11
U.S. History (Advanced Placement) 1-2 is an advanced course taught at the college level. It is designed for students who wish to take the Advanced Placement examination, and emphasizes extensive reading, research and problem solving, writing, historiography and historical knowledge. This course may be used to meet the UC/CSU “A” or “G” requirement. UC approved for extra honors credit (A=5, B=4, C=3).

### AP U.S. History 1-2 Seminar 1715 Grade 11
This is a one-trimester course which will allow students to refine their understanding of and writing skills in the social sciences as well as explore topics and concepts relevant to the United States in the global community of the 21st century. Academic research methods and techniques specific to the study of social sciences will also be included. This course will meet elective graduation credit.
CIVICS 1393 Grade 12
High School Graduation requirement if not taking AP Gov. Civics surveys the origins of our federal, state and local governments and studies their structure, function, theory and process. It promotes citizenship skill building by serving the community in an “outside project” and prepares students for the political and social arenas of the future. This is a practical course applying knowledge toward voting, jury duty and rights and privileges of community participation. Must be taken in 12th grade only. This course may be used to meet the UC/CSU “A” requirement.

ECONOMICS 1398 Grade 12
High School Graduation requirement if not taking AP Gov. Economics is a course in which students will deepen their understanding of the economic problems and institutions of the nation and world in which they live. They will learn to make reasoned decisions on economic issues as citizens, workers, consumers, business owners and managers. Primarily a course in social science, economics enriches students' understanding of the operations and institutions of economic systems. Must be taken in 12th grade only. This course may be used to meet the UC/CSU “G” requirement.

U.S. HISTORY 1-2 1376 – 1377 Grade 11
U.S. History 1-2 is a course in which students examine the economic, social and political development of the United States, concentrating primarily on the twentieth century. During the year certain themes will be emphasized: the expanding role of the federal government; the continuing tension between the individual and the state; the emergence of a modern corporate economy; the impact of technology on American society and culture; change in the ethnic composition of American society; the movements toward equal rights for racial minorities and women; and the role of the United States as a major world power. Throughout the course students will explore American culture, literature, the arts and the mass media. Students will demonstrate competency in questioning, critical thinking, research and writing as it applies to the discipline of history. Competency-based educational objectives will be in compliance with California State Model Curriculum Standards. This course may be used to meet the UC/CSU “A” or “G” requirement.

WORLD HISTORY 1-2 1301 – 1302 Grade 10
World History 1-2 is a course where students will examine major turning points in the shaping of the modern world, from the late eighteenth century to the present. The year begins with an introduction to current world issues and then continues with a focus on the expansion of the west and the growing interdependence of people and cultures throughout the world. Art, music, literature and primary source documents will be used as a basis for analysis of the historical periods. Students will demonstrate competency in questioning, critical thinking, research and writing as it applies to the discipline of history. Competency-based educational objectives will be in compliance with California State Model Curriculum Standards. This course may be used to meet the UC/CSU “A” or “G” requirement.
AMERICAN LITERATURE 1-2  0387-0388  Grade 11

American Literature 1-2 introduces famous American writers such as Bradford, Dickinson, Whitman, Irving, Poe, Crane, Twain, O’Henry, Hawthorne, Hemingway and Steinbeck, and the philosophical context of the literature. American Literature 2 deals with more modern American writers. Possible choices of authors to be studied include Faulkner, Hemingway, Steinbeck, Albee, O’Neill, Williams, Salinger, Sandburg, Frost, or Fitzgerald. Students will continue to practice the essay format, including research based essay, advanced literary concepts and SAT vocabulary. Focuses on nonfiction with a concentration on writing a major research paper using a variety of sources. American Literature 2 also includes a speech that requires literature, history, and use of multimedia technology. This course may be used to meet the UC/CSU "B" or "G" requirement.

AP ENGLISH LANGUAGE AND COMPOSITION 1-2  0372-0373  Grade 11

In this class students will read, discuss, and write about American fiction and non-fiction, from Colonial to modern times, focusing on text analysis, rhetorical strategies, and vocabulary development to prepare them for the AP Language Exam. As an advanced reading and composition course, students should be familiar with the use of concrete details and commentaries to support a thesis driven essay. Students will carefully review the essay form before moving on to develop a more specific understanding of audience and style for persuasive writing. Students will focus on academic writing and the research process. This course also emphasizes the development of research skills and the preparation of a persuasive research paper. This course may be used to meet the UC/CSU “B” or “G” requirement. UC approved for extra honors credit (A=5, B=4, C=3).

AP ENGLISH LANGUAGE & COMPOSITION 1-2 SEMINAR  1702  Grade 11

AP English Language and Composition Seminar will be offered during the third trimester. The course will offer students the opportunity to partake in project-based learning and apply learning acquired during the Advanced Placement class. Students will design their own projects that may involve creation of videos, distribution of surveys, publication of art, or multimedia. Student learning will become active as students complete projects that demonstrate their learning and understanding and/or show how this learning translates into an action or a product. Additionally, the course will allow students to earn elective credit as they review and continue to develop an understanding of the elements of effective rhetoric and argumentation. This includes, but is not limited to, the study of logos, ethos, pathos, and other stylistic tools.

AP ENGLISH LITERATURE 1-2  0370-0371  Grade 12

Advanced Placement English 1-2 is a college-level course designed to prepare students to take the Advanced Placement English examination. The course presents examples of Western literary development from the Greeks through the twentieth century, acquainting students with various genres and themes. Emphasis will be placed on a close reading and analysis of the individual literary work. In addition, attention may be given to the historical and philosophical characteristics of the authors, literary movements and genres. Students also will be expected to write expository, researched papers. This course may be used to meet the UC/CSU "B" or "G" requirement. UC approved for extra honors credit (A=5, B=4, C=3).
**AP ENGLISH LITERATURE 1-2 SEMINAR  1703  Grade 12**

This is a 3rd trimester course. It offers the students the opportunity to apply learning acquired during the AP course. Students earn elective credit as they continue to develop their understanding of literary devices, their appreciation of a wide range of literary genres, and their understanding of how literary works are a reflection of historical moment’s values and culture. Students complete a final project.

**EXPOSITORY READING AND WRITING 1-2  0315-0316  Grade 12**

Expository Reading and Writing prepares college-bound seniors for the literacy demands of higher education. Students in this rhetoric-based course will become more proficient in expository, analytical, and argumentative reading and writing, increasing their awareness of the rhetorical strategies employed by authors and applying those same strategies to their own writing. This course may be used to meet the UC/CSU "B" or "G" requirement.

**HIGH SCHOOL ENGLISH 1-2  0301-0302  Grade 9**

HS English 1-2 builds on knowledge and skills developed in middle school. Students will continue to develop their thinking-in-writing by practicing a variety of writing modes including description, narration, and literary analysis. Students will learn the basics of the academic essay, developing their understanding of appropriate paragraph structure. Concurrently, they will acquire and use specific skills to read and respond to different genres of literature, including the short story, myths and legends, the novel, and assorted non-fiction. Students will continue to practice descriptive, narrative and analytical writing, while also acquainting themselves with reflective writing and formal academic research. They will develop more sophisticated responses to literature, learning to create and support inferences about characters, moods, themes, etc. They will read literary works of greater complexity and scope, including Of Mice and Men, Romeo and Juliet, To Kill a Mockingbird, and thereby prepare themselves for more advanced English courses. This course may be used to meet the UC/CSU "B" or "G" requirement.

**HIGH SCHOOL ENGLISH 3-4  0310-0311  Grade 10**

Through a thematic approach to the study of literature and written composition, students in High School English 3-4 will broaden their knowledge of literature and its cultural elements (e.g. art, music, dance, politics, etc.). They will improve their ability to understand their connection to literature, develop writing and thinking skills, master punctuation and grammar skills, and further improve listening and speaking skills. Writing modes addressed will include: reflective, interpretive, and evaluative. Also, a research-based controversial issue essay will be required. This course may be used to meet the UC/CSU "B" or "G" requirement.

**HONORS HIGH SCHOOL ENGLISH 1-2  0303-0304  Grade 9**

Honors HS English 1-2 moves at a more accelerated pace, requires more reading, and deeper critical analysis than High School English 1-2. Honors HS English 1-2 builds on knowledge and skills developed in middle school. Students will continue to develop their thinking-in-writing by practicing a variety of writing modes including description, narration, and literary analysis. Students will learn the basics of the
academic essay, developing their understanding of appropriate paragraph structure. Concurrently, they will acquire and use specific skills to read and respond to different genres of literature, including the short story, myths and legends, the novel, and assorted non-fiction. Students will continue to practice descriptive, narrative and analytical writing, while also acquainting themselves with reflective writing and formal academic research. They will develop more sophisticated responses to literature, learning to create and support inferences about characters, moods, themes, etc. They will read literary works of greater complexity and scope, including Of Mice and Men, Romeo and Juliet, To Kill a Mockingbird, and thereby prepare themselves for more advanced English courses. This course may be used to meet the UC/CSU "B" or "G" requirement.

**HONORS HUMANITIES 1-2  0313-0314  Grade 10**

Honors Humanities studies man’s relationship with society, nature and himself. Students write in a variety of essay modes including: interpretive, expository, reflective, and persuasive. The course involves library research, outside reading, peer cooperation and formal public speaking. Students begin a survey of Western culture beginning with the Ancient Greeks and continuing through the Enlightenment in order to understand how the historical context in which a piece of writing, or music or art is created gives added meaning, as does the cultural or social milieu. This course may be used to meet the UC/CSU "B" or "G" requirement.

**WORLD LITERATURE 1-2  0393-0394  Grade 12**

Students will develop their own voices and values on a journey of self-discovery through classic and contemporary World Literature. The course will expose them to literary works from a variety of cultures where they can experience the works of writers who view the world from perspectives different from their own. By visiting distant places and times, students will discover not only the riches of human experience and the universality of the human condition; they will also examine worldly and spiritual themes, all while coming closer to becoming citizens of the world we live in and thinkers considerate of other peoples and their cultures. This course may be used to meet the UC/CSU "B" or "G" requirement.
# AP Calculus AB 1-2  (1060-1061)
**Requires successful completion of Honors Pre-Calc 1-2**
Advanced Placement Calculus AB 1-2 is designed for students who have completed the equivalent of four years of college preparatory mathematics. Students apply skills and information acquired in previous math courses. Topics introduced include development of limits and derivative, integration, and applications of the derivative and integral. This course specifically prepares the student to take the College Boards Advanced Placement Exam for Calculus AB. This course has been approved to meet the UC “C” or "G" requirement.

## AP Calculus AB Seminar  (1705)
This course is a culmination of Calculus AB. It will focus on developing and reinforcing students’ conceptual understanding of calculus and their ability to apply knowledge to solve problems. Emphasis will be placed on the acquisition of critical thinking reading, and writing skills specific to college-level mathematics. Students will develop problem-solving skills through investigations of free-response problems. Students will develop effective communication skills through clear, concise written and verbal explanations of their solutions in a variety of mathematical contexts. This one trimester course counts toward PUSD Elective credit for graduation.

# AP Calculus BC 1-2  (1062 – 1063)
**Requires successful completion of AP Calculus AB 1-2**
This course is for students who have completed four years of college preparatory math including Calculus AB. New topics covered include parametric equations, vector functions, polar curves, advanced integration techniques, infinite series, and Taylor polynomials. This course prepares the student to take the Advanced Placement Exam for Calculus BC. This course may be used to meet the UC/CSU "C" or "G" requirement. UC approved for extra honors credit (A=5, B=4, C=3).

## AP Calculus BC Bridge/Seminar  (1704)
This course supports students in preparation for the AP Calculus BC exam and extends learning in college-level mathematics. During this course, students will take a more in-depth look at topics from differential and integral calculus as well as differential equations and series.

# AP Computer Science A 1-2  (CTE 1056 – 1057)
**Recommend successful completion of Honors Pre-Calc or higher.**
Advanced Placement Computer Science A 1-2 places major emphasis on programming methodology, algorithms, and data structures. Applications of computing provide the context in which these subjects are treated; applications are used to develop student awareness of the need for particular algorithms and data structures, as well as to provide topics for programming assignments to which students can apply their knowledge. A particular programming language constitutes the vehicle for implementing computer-based solutions to particular problems. Treatments of computer systems and the social implications of computing are integrated into the course and not isolated as separate units. This course has been approved to meet the UC/CSU “C” requirement.

## Introduction to Computer Programming 2  (CTE 1059)
Introduce the students to the current computer programming language. Students will learn to develop algorithms, computer programming in the computer language, as well as learn the Windows XP
operating system. The primary emphasis will be to learn the proper and efficient use of standard commands, structures, and statements in the computer programming language. This course will stress logic and analytical thinking skills. It is recommended for the college bound student planning on a business, math, or computer science major. This course is designed for the student planning to take AP Computer Science 1-2. This course has been approved to meet the UC "C" requirement.

**AP STATISTICS 1-2  1064-1065**
Requires successful completion of Integrated Math 3a-3b. The multidisciplinary aspects and applications of statistics make it one of the most rewarding classes to take. The study blends the rigor, calculations and deductive thinking of mathematics, the real work examples and problems of social science, the decision-making needs of business and medicine and the laboratory methods and experimental procedures of the natural sciences. This course designed to prepare students to take the Advanced Placement Exam for Statistics. This course may be used to meet the UC/CSU "C" or "G" requirement. UC approved for extra honors credit (A=5, B=4, C=3).

**AP STATISTICS SEMINAR  1706**
AP Statistics Seminar will serve as the culminating semester for the previous two semesters of AP Statistics based on the four major units: exploring data, sampling and experimentation, anticipating patterns, and special inference. There is a review and extension of AP Statistics and further preparation for college-level math. During this course, students will study units on statistical inference over Chi Square and Linear Regression and prepare extensively for probability and statistics content. Students will engage in development and investigation of the four major themes with added emphasis on student project-based learning. This course is designed to help enhance students’ understanding of the curriculum of both descriptive and inferential statistics. Students will use real-life situations to describe, analyze, and evaluate situations with statistics; use a variety of connections to the curriculum such as questioning for higher-level understanding, scaffolding from previous mathematical concepts, and the application of concepts within the course; combine technology with mathematical theory; make connections throughout the course by practicing design, analysis, and conclusion; demonstrate the use of simulation as well as experimentation; and decide how to best represent data graphically, explain relationships among variables, and describe trends, nuances, and distributions of data. Finally, students will need to infer from proper sampling techniques about parameters in the population. Students will be able to discuss and explain why inferences can be made about populations, and how probability helps make statistical decisions. This one trimester course counts toward PUSD Elective credit for graduation.

**COLLEGE ALGEBRA 1-2  1054-1055**
This course focuses on a study of a variety of mathematical functions. Upon satisfactory completion of this course, the student will be ready to enroll in an accredited college level Algebra course. That is, this course provides an opportunity for a student to enter college without having to take remedial mathematics. This course is highly recommended for seniors who will be entering a 2-year community college and students who need to continue with math in the senior year to prepare for entry into a 4-year university. This course may be used to meet the UC/CSU "C" or "G" requirement.
HONORS PRE-CALCULUS 1-2 1050-1051
Requires successful completion of Integrated 3b
Honors Pre-calculus 1-2 is designed for the advanced college-preparatory student and will provide the foundation for students to proceed into Calculus. The major content will focus on: mathematical induction, vector algebra, function analysis, exponential and logarithmic functions, and circular and trigonometric functions. This course has been approved to meet the UC “C” or “G” requirement.

INTEGRATED MATHEMATICS 1a-1b 1012-1013
Integrated Mathematics 1 uses properties and theorems involving congruent figures to deepen and extend understanding of geometric knowledge from prior grades. The critical areas organized into units deepen and extend understanding of linear relationships. The Mathematical Practice Standards together with the content standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. This course has been approved to meet the UC “C” requirement.

INTEGRATED MATHEMATICS 2a-2b 1016-1017
Requires successful completion of Integrated 1a-1b
The focus of Integrated Mathematics 2 is on quadratic expressions, equations, and functions. The link between probability and data is explored through conditional probability and counting methods, including their use in making and evaluating decisions. The study of similarity leads to an understanding of right triangle trigonometry and connects to quadratics through Pythagorean relationships. Circles with their quadratic algebraic representations round out the course. The Mathematical Practice Standards together with the content standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. This course has been approved to meet the UC “C” requirement.

INTEGRATED MATHEMATICS 3a-3b 1018-1019
Requires successful completion of Integrated 2a-2b
In Integrated Mathematics 3 students apply the accumulation of learning from previous courses, with content grouped into four critical areas. They apply methods from probability and statistics to draw inferences and conclusions from data. Students expand their repertoire of functions to include polynomial, rational, and radical functions. They expand their study of right triangle trigonometry to include general triangles. Students bring together all of their experience with functions and geometry to create models and solve contextual problems. The Mathematical Practice Standards together with the content standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. This course has been approved to meet the UC “C” requirement.

STATISTICS 1039
Statistics is a one-trimester college preparatory course, which will introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Probability and
counting methods are included. Students will apply descriptive statistics to a wide range of disciplines. This course may be used to meet the UC/CSU "C" or "G" requirement.

TRIGONOMETRY 1037

Trigonometry is a one-trimester course. The topics covered include special triangles, the unit circle, using the graphing calculator, proving trigonometric identities, solving equations, solving triangles, angular velocity, and the laws of sines and cosines. This course may be used to meet the UC/CSU "C" or "G" requirement.
### AP BIOLOGY 1-2 1232-1233

**Requires successful completion of Chemistry 1-2.**

Advanced Placement Biology is equivalent to an introductory Biology course found at the Freshman University level. The course features a biochemical approach to the study of life and included three major areas of study: Molecules and Cells, Genetics and Evolution, and Organisms and Populations. College credit may be earned by taking the Advanced Placement examination in Biology at the end of the course. This course may be used to meet the UC/CSU “D” or “G” requirement. Approved for extra honors credit (A=5, B=4, C=3).

### AP BIOLOGY SEMINAR 1714

This is an extension of the AP Biology 1-2 course sequence. It is intended to provide the content knowledge and skills required in an introductory Biology course at the university level. Primary emphasis in the course is on developing an understanding of concepts rather than memorizing terms and technical details. Essential to the conceptual understanding are the following: a grasp of science as a process rather than as an accumulation of facts; personal experience in scientific inquiry; recognition of unifying themes that integrate the major topics of biology and application of biological knowledge and critical thinking to environmental and social concerns. Counts toward PUSD Elective credit for graduation.

### AP CHEMISTRY 3-4 1242-1243

**Requires successful completion of Chemistry 1-2.**

The course is a rigorous investigation of the principles of chemistry. Emphasis is placed on qualitative and quantitative understanding of thermodynamics, stoichiometry, kinetics and equilibrium. The laboratory component stresses a hands-on approach using contemporary scientific equipment. The curriculum parallels general chemistry courses at the university level. This course may be used to meet the UC/CSU “D” or “G” requirement. UC approved for extra honors credit (A=5, B=4, C=3).

### AP CHEMISTRY SEMINAR 1716

AP Chemistry Seminar will serve as the culminating semester for the previous two semesters of AP Chemistry. This course continues to support students in preparation for the AP Exam and extends learning for college readiness. The course provides additional opportunities for laboratory experience in the core content areas and extends the core curriculum to include applications of organic chemistry and electrochemistry. This one trimester course counts toward PUSD Elective credit for graduation.

### AP ENVIRONMENTAL SCIENCE 1-2 1244-1245

**Requires successful completion of Biology 1-2 and Chemistry 1-2**

Advanced Placement Environmental Science is a rigorous, college-level course covering the full range of curriculum required as preparation for the AP Exam. With sustainability as a theme, selected topics include Ecosystems, Biodiversity, Human Ecology, Pollution, Resource Management and Energy Use. AP Environmental Science is a course, which will provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. Students will identify and analyze environmental problems, both natural and man-made, and evaluate the relative risks associated with these problems. Students will also examine alternative solutions for resolving
and/or preventing these problems. This course may be used to meet the UC/CSU “D” or “G” requirement and the PUSD Physical Science requirement. UC approved for extra honors credit (A=5, B=4, C=3).

**AP ENVIRONMENTAL SCIENCE SEMINAR 1713**

This is the culminating trimester of AP Environmental Science 1-2. It continues to support students in preparation for the AP exam and extended learning for college readiness. It provides additional opportunities for laboratory science in the core content areas and extends the core curriculum to include a deeper understanding in the areas of air and water pollution. Students have significant scientific field experiences. This one trimester course counts toward PUSD Elective credit for graduation.

Following this 2-year sequence, students will be able to learn 3 years of AP Physics content and take all 3 AP examinations. Physics 1-2 is NOT a prerequisite to take the AP level courses.

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**AP PHYSICS 1A-1B 1216-1217**

Requires successful completion of Integrated Math 3a-3b or concurrent enrollment in Honors Pre-Calc or higher. AP Physics 1 is a non-calculus based college-level course established by the College Board. It provides a systematic introduction to the main principles of physics and emphasizes the development of problem-solving higher level thinking skills. College-level performance and work habits are required, and students are expected to take the AP Physics Examination in the spring. This course has been approved to meet the UC/CSU “D” or “G” requirement. UC approved for extra honors credit (A=5, B=4, C=3).

**AP PHYSICS C 1-2 (Mechanics) 1262-1263**

Requires successful completion of AP Physics 1A-1B and concurrent enrollment in Calculus AB or higher. Advanced Placement Physics C 1A-1B course forms the first part of the college sequence that serves as the foundation in physics for college physics students. The topic of mechanics will be the emphasis of the course; however, other related topics may be covered. Strong emphasis is placed on laboratory experience and problem solving. This course may be used to meet the UC/CSU “D” or “G” requirement. UC approved for extra honors credit (A=5, B=4, C=3).
**AP PHYSICS C 1-2 (Electricity/Magnetism) 1264-1265**

Requires successful completion of AP Physics C 1-2 (Mechanics) and concurrent enrollment in Calculus AB or higher. The Advanced Placement Physics C 2A-2B course forms the second part of the college sequence that serves as the foundation in physics for college physics students. The topics of electricity and magnetism will be the emphasis of the course; however, other related topics may be covered. Methods of calculus will be taught and used in conjunction with the course work. Strong emphases are placed on laboratory experience and problem solving. This course may be used to meet the UC/CSU “D” or “G” requirement. UC approved for extra honors credit (A=5, B=4, C=3).

**BIOLOGY OF THE LIVING EARTH 1-2 (formerly Biology 1-2) 1236-1237**

Biology of the the Living Earth 1-2 is a laboratory based college preparatory course that integrates the high school Life Science (LS), Earth and Space Science (ESS), and Engineering, Technology, and Applications of Science (ETS) Performance Expectations (PE) from the California Next Generation Science Standards (NGSS). The fundamental concepts necessary to understand Biology have been selected from the Disciplinary Core Ideas (DCIs) of NGSS. These core ideas form the basic biological content for investigating complex real world ideas and problems. Students employ two general tools in their investigation activities: Cross Cutting Concepts (CCCs), and Science and Engineering Practices (SEPs). Students will use CCCs to make connections across seemingly disparate biological disciplines, and to connect new learning to prior experiences. SEPs guide the investigative approach to biological phenomena all the way from; a student’s introduction to the exploration and the formative and summative student assessments. The course is broken down into four learning segments, spanning content from Biology to Earth Science. Students encounter Biology through real world phenomena to heighten relevance and to emphasize that biological laws are used to describe, explain, and make predictions about all living things. Throughout the course, students will investigate with activities, experiments, demonstrations, discussions, and observations of real-world phenomena and the evaluation and analysis of published materials. Students will clearly and persuasively communicate their claims as they obtain and evaluate evidence derived from these investigations. This course has been submitted to meet the UC/CSU “D” or “G” requirement and meets the PUSD Biological Science requirement.

**BIOMEDICAL TECHNOLOGY 1-2 1224-1225**

Requires successful completion of Biology 1-2

The Biomedical Technology 1-2 course is an advanced course built off skills from the Biology, Human Biology, and Chemistry courses to prepare students for further education and/or employment options in the Biotechnology Industry. The goal of this course is to familiarize students with the protocols, equipment, and techniques used in this field to better prepare them for a future in Biotechnology. The course will allow students to learn about biomedical research, the pharmaceutical industry, and the critical issue of bioethics. This course is aligned to PUSD and State Standards for Science. This course may be used to meet the UC/CSU “D” or “G” requirement. UC approved for extra honors credit (A=5, B=4, C=3).
CHEMISTRY IN THE EARTH SYSTEM 1-2  (formerly Chemistry 1-2)  1246-1247
Requires successful completion of Integrated Math 2B or higher.
Chemistry in the Earth System 1-2 is a laboratory based college preparatory science course, which will focus on major principles and concepts of chemistry. This course integrates the High School Physical Science (PS), Earth and Space Science (ESS), and Engineering, Technology, and Applications of Science (ETS) Performance Expectations (PE) from the California Next Generation Science Standards (NGSS). The fundamental concepts necessary to understand chemistry have been selected from the Disciplinary Core Ideas (DCIs) of NGSS. These core ideas form the basic chemistry content for investigating complex real world ideas and problems. Students employ two general tools in their investigation activities: Cross Cutting Concepts (CCCs), and Science and Engineering Practices (SEPs). Students encounter chemistry through real world phenomena to heighten relevance and to emphasize that chemical theories and laws are used to describe, explain, and make predictions about all matter, and that chemistry explains processes on earth and in space. Throughout the course, students will investigate with activities, experiments, demonstrations, discussions, and observations of real-world phenomena. Students will clearly and persuasively communicate their claims as they obtain and evaluate evidence derived from these investigations. This course has been approved to meet the UC “D” requirement.

FUNDAMENTALS OF (PHYSICS AND) CHEMISTRY 2  1215
Requires successful completion of Integrated Math 2B or higher.
Mt. Carmel utilizes one trimester of this yearlong college preparatory elective science course. Using a strictly computational and mathematical approach, the course has embedded state standards into key topics of high school physics and chemistry including projectiles, free fall, momentum, energy, electricity/magnetism, circuits, spectral analysis, heat transfer, solution chemistry, bonding, and chemical reactions. The key component of the course is the extensive review and constant use of the necessary computational and mathematical skills essential for the study of these topics. Fundamentals of Physics and Chemistry 1-2 is designed to make high school chemistry and physics courses accessible as well as provide a solid coverage of topics in the physical sciences. This course may be used to meet the UC/CSU “G” requirement and 5 credits toward the PUSD Physical Science requirement.

GEOSCIENCE 1-2  1212-1213
Geoscience is a two-trimester laboratory based college preparatory course, which will give students a strong background in the earth and space sciences. This course integrates the High School Earth and Space Science (ESS), Engineering, Technology, and Applications of Science (ETS) and some Physical Science (PS) Performance Expectations (PE) from the California Science Framework based on the Next Generation Science Standards (NGSS). The fundamental concepts necessary to understand Geoscience have been selected from the Disciplinary Core Ideas (DCIs) of NGSS. These core ideas form the basic Geoscience content for investigating complex real world ideas and problems. Students employ two general tools in their investigation activities: Cross Cutting Concepts (CCCs), and Science and Engineering Practices (SEPs). The course includes challenging activities, laboratory exercises, field experiences, and class projects in a collaborative work environment. Students enrolled in this class will learn by completing labs and laboratory reports, exams, and oral presentations. This course focuses on the dynamic interrelationships between the atmosphere, geosphere, hydrosphere, biosphere, and the earth-universe system. Geoscience is taught from an interdisciplinary perspective and each topic in the class will illustrate connections between the different disciplines in science, economics, and other global issues. This course has been approved to meet the UC “D” requirement for Laboratory Science.
**HUMAN BIOLOGY 1-2  1226-1227  Grades 10-12**

Requires successful completion of Biology 1-2

Human Biology introduces physiology and anatomy of the human body. Major organ systems that will be investigated include nervous, immune, digestive, endocrine, etc. Contemporary scientific issues affecting biology will be integrated into course curriculum. Topics may include DNA’s role in behavior, the ethics of cloning and fetal tissue research, cancer and other diseases. This course is designed to support students interested in health-related careers. Students who are interested in health-related careers (such as biotechnology, nursing, dental assistant, physical therapy assistant, medical technician, EMT, firefighter and/or planning to pursue a certificate degree (or AA) at a community college are the primary candidates. This course may be used to meet the UC/CSU “D” or “G” requirement and meets PUSD Biological Science requirement.

**PHYSICS OF THE UNIVERSE 1-2  (formerly Physics 1-2)  1248-1249**

Requires successful completion of Integrated Math 2B or higher.

Physics of the Universe 1-2 is a laboratory-based college preparatory course that integrates the high school Physical Science (PS), Earth and Space Science (ESS), and Engineering, Technology, and Applications of Science (ETS) Performance Expectations (PE) from the California Next Generation Science Standards (NGSS). The fundamental concepts necessary to understand physics have been selected from the Disciplinary Core Ideas (DCIs) of NGSS. These core ideas form the basic physics content for investigating complex real world ideas and problems. Students employ two general tools in their investigation activities: Cross Cutting Concepts (CCCs), and Science and Engineering Practices (SEPs). Students will use CCCs to make connections across seemingly disparate physics disciplines, and to connect new learning to prior experiences. SEPs guide the investigative approach to physics phenomena all the way from a student’s introduction, to the exploration, and the formative and culminating student assessments. The course is broken down into five learning segments, spanning content from Physics to Earth Science and Astronomy. Students encounter physics through real world phenomena to heighten relevance and to emphasize that physical laws are used to describe, explain, and make predictions about the physical universe.

This course has been submitted to meet the UC/CSU “D” or “G” requirement and the PUSD Physical Science requirement.
FILIPINO 1-2 0430-0431
Filipino 1-2 introduces students to the Filipino language. The course will help students develop the skills required to conduct basic conversations such as common greetings, naming objects, places and people, and identifying persons and occupations. Conversational skills will be enhanced with lessons on giving and following directions, expressing and inquiring likes and dislikes, describing ownership and possessions, and telling time. Filipino language cannot be separated from the culture and history that gives it life; therefore, culture and history must be integrated as the student learns the language. This course may be used to meet the UC/CSU “E” or “G” requirement.

FILIPINO 3-4 0432-0433
Filipino 3-4 enhances the four communication skills of listening, speaking, reading and writing learned from Filipino 1-2. Students will increase their vocabulary, enhance their grammatical skills, and use them progressively in a more complex but concrete structure. Students will progressively use more vocabulary words and construct longer and complicated sentences by combining learned phrases, previous grammatical skills, new vocabulary words and grammatical skills. In addition, students will continue to develop cultural awareness by integrating lessons with social, economic, and political background of the Philippines comparing them to the learner’s own social, economic, and political background. This course may be used to meet the UC/CSU “E” or “G” requirement.

FILIPINO 5-6 0434-0435
Filipino 5-6 enhances the four communication skills of listening, speaking, reading, and writing learned from Filipino 3-4. Students will increase their vocabulary, enhance their grammatical skills, and use them progressively in a more complex but concrete structure. Students will progressively use more vocabulary words and construct longer and more complicated sentences by combining learned phrases, previous grammatical skills, new vocabulary words and grammatical skills. In addition, students will continue to develop cultural awareness by integrating lessons with social, economic, and political background of the Philippines comparing them to the learner’s own social, economic, and political background. This course may be used to meet the UC/CSU “E” or “G” requirement.

FILIPINO 7-8 0436-0437
Filipino 7-8 will further develop and refine knowledge, skills, and attitudes related to specific themes, including, but not limited to, traveler's survival, Filipinos in the United States, and history-geography. Within this context, appropriate emphasis will be placed on student competency in the areas of reading, writing, listening, and speaking. This course may be used to meet the UC "E" or "G" requirement.

FRENCH 1-2 0405-0406
French 1-2 is a beginning course that develops the four communication skills of listening, speaking, reading and writing with basic vocabulary, grammar, and idiomatic expressions. Oral and written activities, both individually and in groups, provide practice to develop these skills. Vocabulary themes focus on family description, school, introductions, numbers, time. Grammar topics include the present tense regular verbs and the irregular verbs être, avoir, aller, faire, noun-adjective agreement and essential idiomatic expressions. Students will make connections between French and English and will
learn culturally appropriate communication as they become familiar with the francophone world. This course may be used to meet the UC/CSU “E” requirement.

**FRENCH 3 – 4  0407 – 0408**

French 3-4 is an intermediate course designed to further develop the communication skills of listening, speaking, reading, and writing. Students build on their knowledge of vocabulary and idiom to have short, unrehearsed conversations. Vocabulary themes include sports, museums and movies, and travel. Students expand their knowledge of present tense verbs, add the reflexive verbs and move to passé composé and imperfect. Other grammar topics include object pronouns and commands. This course may be used to meet the UC/CSU “E” or “G” requirement.

**FRENCH 5 - 6  0409 – 0410**

French 5-6 prepares the student for the more advanced work in French structure, communication, and competency. Reading and writing practice is more extensive and students are encouraged to use the language creatively, both orally and in their written work. Vocabulary themes focus on French cuisine, driving, hotel reservations and holidays. Students continue to develop competency with the past tenses and object pronouns. New grammar topics include the future and conditional tenses and the subjunctive mood. This course may be used to meet the UC/CSU “E” or “G” requirement.

**HONORS FRENCH 7 – AP FRENCH  0411 – 0412 - 0415**

Honors French 7-8 continues developing and refining oral and written communication skills. Activities are divided among listening, speaking, reading, and writing. Students will work in small groups, whole class and individual settings as appropriate. Vocabulary development continues in a thematic context as students expand the range of expression. Students also continue mastery of increasingly complex verb and grammatical forms.

**SPANISH 1 - 2  0470 - 0471**

Spanish 1 and 2 are beginning courses which develop the four communication skills of listening, speaking, reading and writing with basic vocabulary, grammar, and idiomatic expressions. Oral and written activities, both individually and in groups, provide practice to develop these skills. Some of the vocabulary themes include personality and physical characteristics, family, school, clothing, food, community places, typical student activities, weather, days, months, numbers, and time. The essential learnings in grammar are the conjugation of present tense verbs, the “to be” verbs (ser & estar), common idiomatic expressions like “to have to do something (tener + que + infinitive) and “to be going to do something” (ir + a + infinitive), and noun /adjective agreement. This course may be used to meet the UC/CSU “E” requirement.

**SPANISH 3 - 4  0472 - 0473**

Spanish 3-4 is designed to further develop the four communication skills of listening, speaking, reading, and writing with basic vocabulary, grammar, and idiomatic expressions. Students will increase their vocabulary and ability to use it in progressively more complicated structures, reinforcing their ability to use previously learned material. Individual group oral and written activities help increase the creative ability to use the language. Some of the vocabulary themes include types of stores and shopping, personal
care and sundries, household items and chores, and typical student activities before and after school. The essential learnings in grammar are refinement of the present tense verbs including stem-changing verbs, reflexive verbs, familiar commands and the use of the past tense- preterit. This course may be used to meet the UC/CSU “E” or “G” requirement.

SPANISH 5 - 6 0474 - 0475
Spanish 5-6 prepares the student for the more advanced structures and communication activities. Reading and writing is more extensive, and the emphasis is on activities that encourage creative use of the language orally and in writing. The essential learnings of grammar focus on narration in the past with refinement of the use of the preterit and imperfect tenses. Other grammar topics include object pronouns, all command forms, and knowledge of other verbs that are used like gustar; Vocabulary themes include the news and media, food and restaurant, travel and hotels. This course may be used to meet the UC/CSU “E” or “G” requirement.

SPANISH 7 - 8 0476 - 0477
Spanish 7-8 continues to expand the creative ability to use the language orally and in writing. Emphasis is on improving competency in listening, speaking, reading and writing. Listening comprehension exercises and tests focus on unrestricted language, that is, language not tailored specifically to the textbook. Particularly in Spanish 7, new conventions to be learned focus on compound tenses (e.g. I have gone, I had gone, I will have gone), Conditional and Conditional Perfect (I would go, I would have gone), and new Subjunctive forms to include Present Perfect, Imperfect, and Past Perfect. Readings will be from textbook and outside readings consisting of selected short stories in Spanish. Students are expected to use the language in all classroom activities, including general discussions and discussions of readings. This course may be used to meet the UC/CSU “E” or “G” requirement and will prepare the student for the Advanced Placement Language course.

AP SPANISH LANGUAGE 1-2 0484 - 0485
Advanced Placement Spanish Language refines the skills required for advanced work equivalent to a third year college level course and for the AP Language examination. Extensive reading, writing and speaking practice increases the competency level to that required on the AP examination. Selected works from authentic resources are analyzed. This course may be used to meet the UC/CSU “E” or “G” requirement. UC approved for extra honors credit (A=5, B=4, C=3).

AP SPANISH LANGUAGE SEMINAR 1712
Advanced Placement Spanish Language Seminar is to continue to develop a student’s ability to speak, read, write and understand increasingly complex levels of the Spanish language and to function with people of Spanish cultures. The course is conducted in the target language. Selected literary works, including texts, prose and poetry, plus authentic materials, will be read and analyzed through student discussion, questioning and theme-based writing. The course offers vocabulary development combined with grammar instruction to increase students’ proficiency in the Spanish language. This will include current events specific to commerce and mankind, and an expansion of the themes included the first two trimesters of AP Spanish: the home, health, the environment tourism, pastimes, sports and education. The course continues to support students in preparation for future Spanish experiences and extends learning for college readiness. Selected literary works will be analyzed through student discussion and theme-based writing. Additionally, the course will emphasize film and art appreciation to include the genre of magical realism. This one trimester course counts toward PUSD Elective credit for graduation.
UC/CSU “F”  Fine Arts – Performing Arts

DANCE

ADVANCED DANCE  1 – 2  1430-1431
Permission of Teacher required.
Advanced Dance is an accelerated class designed to explore dance from many vantage points. Advanced
dance technique will be the basis of the class. Choreography, dance history, interpretive qualities and
originality will complement the class. Performance of original choreographies will be mandatory.
Elements of critiquing the art of dance will also be refined. This course may be used to meet the UC “F”
or “G” requirement and PUSD Fine Arts or PE requirement.

BEGINNING DANCE  1436
Beginning dance is an overview of various styles of dance for new dancers to learn the basics. Styles will
include ballet, jazz, modern, and hip hop. Students will learn the foundations of choreography and
history of the various styles.

INTERMEDIATE DANCE  1429
Successful completion of Beginning Dance or Permission of Teacher required.
Intermediate Dance is designed to give those students with previous experience a chance to progress
onto more challenging dance techniques. Choreography, vocabulary of dance, and elements of critiquing
the art of dance will be included in the class. In addition, performances of choreographed and original
dance routines will be mandatory. Intermediate dance can count as either a Physical Education or Fine
Art course. This course may be used to meet the UC “F” or “G” requirement and PUSD Fine Arts or PE
requirement.

MODERN DANCE  1432
Successful completion of Beginning Dance or Permission of Teacher required.
Modern Dance is a course, which teaches dance exercises and techniques, movement exploration
through creative improvisation, and elementary dance composition. This course may be used to meet
the UC “F” or “G” requirement and PUSD Fine Arts or PE requirement.
**UC/CSU “F” Fine Arts – Performing Arts**

**INSTRUMENTAL**

**CONCERT BAND 1-2 1175-1176**
Ability to read and perform music is a requirement. Limited to standard band instrument (no guitar)
Students are required to participate in all band activities. Marching Band activities begin with Band Camp (before school starts) and conclude in November. Once Marching Band Season is over students are placed into one of three band groups (Freshman Band, Concert Band, Wind Ensemble) based upon ability and instrumentation needs. Concert activities are concerts, festivals, as well as solo and ensemble festival. Concert Band is designed for instrumental musicians. This is a performance class, and students are expected to participate in all band activities. Activities will include concerts for the band as well as solo and ensemble festivals. This band represents the school at district and state levels in concert festivals. All students are required to be enrolled in Marching Physical Education first trimester. The purpose of this course is to enable students to develop basic technical skills on wind or percussion instruments through the refinement and performance of high school band literature. Emphasis will be placed on the development of skills in interpretation of notation and expressive markings, individual and ensemble performance, and critical listening. This course may be used to meet the UC/CSU “F” requirement and PUSD Fine Arts graduation requirement.

**INSTRUMENTAL ENSEMBLE 1 – 2 1186-1187**
Instrumental Ensembles 1-2 is a course for all levels if instrumental musicians. Small ensembles are encouraged, although solos may be prepared for the solo and ensemble festival held at two different locations in the county. The students may be required to participate in the solo and ensemble festival. This course may be repeated for credit and has been approved to meet the UC/CSU “F” requirement and the PUSD Fine Art requirement.

**ORCHESTRA 1-2 1183-1184**
**STRING ENSEMBLE**
Orchestra is a performance class and is designed for the stringed-instrument student who wants to perform in an orchestral music organization. Outside time is required. The group will play a variety of string orchestra music and perform at school concerts and festivals. Students who perform at a more advanced level will be able to participate in the chamber string ensemble, which will have additional music literature to the full orchestra literature. The purpose of this course is to enable students to develop basic technical skills on wind or percussion instruments through the refinement and performance of high school orchestra literature. Emphasis will be placed on the development of skills in interpretation of notation and expressive markings, individual and ensemble performance, and critical listening. This course may be used to meet the UC/CSU “F” requirement and PUSD Fine Arts requirement.

**WIND ENSEMBLE**
Wind Ensemble is a course for advanced instrumental musicians. This is a performance class, and students are expected to participate in all band activities. Some outside time is necessary. Activities will include concerts for the band and various festivals. The Wind Ensemble will represent the school at district and state levels in concert evaluations. All students should be enrolled in Marching Physical Education in the fall.
WIND ENSEMBLE 1-2  1177-1178
This is a course for advanced instrumental musicians. This is a performance class and students are expected to participate in all band activities. Some outside time is necessary. Activities will include concerts for the band and various festivals. Wind Ensemble 1-2 will represent the school at District and state levels in concert evaluations. This course has been approved to the UC/CSU “F” or “G” requirement and will meet the PUSD Fine Art graduation requirement.

THEATER

DRAMA 1-2  0345 - 0346
This course is a beginning study of theater with an in-depth look at the structure of theater and plays. Included are basic story-telling, voice and diction, reader’s theater, play analysis, and improvisational exercises. Students will be requested to attend performances of school, community or professional plays and movies and then write a critique of them. At least one basic scene and/or series of pantomimes will be presented. Also studied are the function of the playwright, the actor, the director and the technicians. This course may be used to meet the UC/CSU “F” requirement and PUSD Fine Arts requirement.

DRAMA 3-4  0347 – 0348
This course includes a study of the history of acting styles. Students are expected to perform scenes or plays from classical literature. Students will study the technical side of theater including costume and set design, makeup, directing and production. This course may be used to meet the UC/CSU “F” or “G” requirement and PUSD Fine Arts requirement.

DRAMA 5-6  0349 - 0350
Drama 5-6 continues the application of the play direction techniques introduced in Drama 4. Students are expected to select a term project and carry it to culmination in presentation and evaluation by an audience. In addition, students are expected to perform in scenes from classic, modern British, and modern American dramatic literature, as well as to research a selected topic. Students are also expected to develop a prompt book which demonstrates an increased attention to detail, steady improvement in basic techniques, and heightened creativity. Also elements of theater management will be covered. Drama may be applied to the Fine Arts requirement but not the English requirement. This course may be used to meet the UC/CSU "F" or “G” requirement and the PUSD Fine Arts requirement.

TECH PRODUCTION FOR THEATER 1-2  0340 – 0341
Technical Production for Theater 1-2 is a course which covers the basics of set design and construction, lighting, costuming, sound, makeup and stage management. Specifically, students will be expected to design, construct, and paint flats, to plan and draw a lighting plot for a play, to operate a lighting board and to choose costume designs and colors for characters in a play. In addition, students will be expected to operate the equipment used in sound effects and musical background for a play, to plan and apply makeup for play characters and to act as stage manager. This course may be used to meet the UC/CSU "F" requirement and the PUSD Fine Arts requirement or Practical Arts requirement.

TECH PRODUCTION FOR THEATER 3-4  0342 – 0343
Technical Production for the Theater 3-4 is a practical theater class which continues to build on knowledge, experience and interest acquired in 1-2. Students will be able to perform the varied "behind
the scenes” tasks at a level of expertness which would make them eligible for theater employment. This course may be used to meet the UC/CSU "F" or “G” requirement and the PUSD Fine Art requirement or Practical Art requirement.

THEATER ARTS STUDY AND PERFORMANCE 7-8 0351 – 0352
Teacher approval required.
This course is intended for those students who are ready to make an in depth commitment to the study and performance of theatre. Students will continue to hone and expand their skills in performance, design, stagecraft and theatre management through the process of selecting and producing plays from a variety of theatre genres for public performance. This course has been approved to meet the UC “F” or “G” requirement.

VOCAL

BEGINNING CHOIR 1-2 1105 – 1106
This course is for freshman and teaches proper vocal production and music reading skills. It is an opportunity to develop counting and sight singing skills and to broaden the musical experience through rehearsal and performance. Music theory and vocal technique are explored. This is a performance class and students will participate in a concert at the end of each trimester. The class may be made up of women, men or mixed voices. This course may be used to meet the UC/CSU “F” requirement and PUSD Fine Arts requirement if both trimesters are completed.

CONCERT CHOIR 1-2-2 1120 – 1121 – 1121
Concert Choir 1-2-2 is beginning/intermediate choir for sophomore, juniors and seniors and may be composed of women, men or mixed voices. Music theory and vocal technique are explored. Students will continue to develop as choral musicians and learn the skills necessary to audition for either Women’s Ensemble or Classical Vocal Ensemble. This is a performance class and students will participate in all concerts and festivals. This course may be used to meet the UC/CSU “F” requirement and PUSD Fine Arts requirement if both trimesters are completed.

WOMEN’S ENSEMBLE 1-2-2 1118-1119 – 1119
Women’s Ensemble 1-2-2 is a three trimester course for advanced choral musicians. Advanced choral and vocal techniques will be taught. Classical and traditional repertoire will be studied and performed. Music theory and vocal technique are further explored. This is a performance class, and students are expected to participate in all choral activities. Outside time is required. Activities will include school and community performances. The Women’s Ensemble will represent the school at District and state levels in adjudicated festivals. This course may be used to meet the UC/CSU “F” or “G” requirement and PUSD Fine Arts requirement.

CLASSICAL VOCAL ENSEMBLE 1-2-2 1110 – 1111 – 1111
Classical Vocal Ensemble 1-2-2 is a three trimester course for advanced choral musicians. Advanced choral and vocal techniques will be taught. Classical and traditional repertoire will be studied and performed. Music theory and vocal technique are further explored. This is a performance class, and students are expected to participate in all choral activities. Outside time is required. Activities will include school and community performances. The Classical Vocal Ensemble will represent the school at District and state levels in adjudicated festivals. This course may be used to meet the UC/CSU “F” or “G” requirement and PUSD Fine Arts requirement.
3D COMPUTER ANIMATION 1 - 2  0857 – 0858
Basic animation will introduce students to the principles of traditional cell animation and to the various materials used in the production of this art form. The purpose of the course is to develop awareness and appreciation of the art of animation and to provide students with the opportunity for creative expression using the tools of animation as their voice. It will also offer a foundation for those students who wish to pursue a career in animation and/or related fields. This course may be used to meet the UC/CSU “F” or “G” requirement and PUSD Fine Arts requirement.

3D COMPUTER ANIMATION 3 - 4  0859 – 0860
Successful completion of 3D Computer Animation 1-2 required. Advanced Animation will introduce students to the principles of computer animation and to the various programs used in the production of this art form. It will continue to stress the fundamentals of pencil animation and build on the skills developed in Basic Animation 1-2. Claymation and the fundamentals of video will be merged with the pencil and computer to broaden the possibilities of creativity. It will also offer a foundation for those students who wish to pursue a career in animation and/or relative fields. These areas will include set design, acting, producing, directing, background artists, inkers, inbetweeners, 3-D animators, 3-D modelers, sound editing, storyboarding, and script writing. This course may be used to meet the UC/CSU “F” or “G” requirement and PUSD Fine Arts requirement.

AP ART HISTORY 1-2  0155-0156
This course is offered to provide the same benefits to secondary students as those provided by the introductory college course in art history: an understanding and appreciation of architecture, sculpture, painting, and other art forms within historical and cultural contexts. Students who pass the Advanced Placement Exam in Art History may receive advanced placement and/or credit at many colleges and universities. This course is designed to meet college standards and requires a high degree of commitment to academic work. This course may be used to meet the UC "F" or “G” requirement and the PUSD Fine Arts requirement. UC approved for extra honors credit (A=5, B=4, C=3).

AP ART HISTORY SEMINAR  1717
AP Art History Seminar will serve as the culminating trimester for the previous two trimesters of AP Art History. Students will study architecture, sculpture, painting, and other art forms within historical and cultural contexts from the late nineteenth century through the late twentieth century. They will continue to analyze works of art within their historical context, and to articulate what they see or experience by discussing how and why works of art communicate visual meaning. Students will apply their content knowledge to the production of art projects and will conduct a research project which connects the work of a 21st century artist to the masters of the past. This course counts towards PUSD Fine Arts requirement or elective credit graduation requirements.

AP STUDIO ART: 2D DESIGN (Illustration, Animation, Photography)  0157 – 0158
Advanced Placement Studio Art: 2D Design provides instruction for the highly skilled exceptional students in two-dimensional design. The course assists these students in the preparation of a 2D Portfolio. It is designed to address a very broad interpretation of two-dimensional design issues. This type of design involves purposeful decision-making about how to use the elements and principles of art in an integrative way. The elements of design (line, shape, space, form, texture, value and color) are like a palette of possibilities that artists use to express themselves. The principles of design help guide artists
in making decisions about how to organize the elements on a picture plane in order to communicate content. These principles include contrast, emphasis, balance, pattern, rhythm, movement and unity. The 2D portfolio also requires students to develop a “concentration” (i.e. a body of work investigating a strong underlying visual idea); this constitutes a significant portion of the artwork they will create in the class. Portfolio preparation involves a significant time commitment and is, therefore, intended for motivated students with advanced skills who are seriously dedicated to studying art. This course may be used to meet the UC/CSU “F” or “G” requirement and PUSD Fine Arts requirement.

STUDIO ART 0150
This is the third trimester of AP Studio Art, for those students who have advanced skills. The course is for students who have completed all other courses in one of the following areas or wish to pursue further study in that area: Drawing and Painting, Design and Mixed Media, Photography or Ceramics. Students will help determine the specific activities of the course by developing a written contract with the instructor. Course may be repeated for credit. This course may be used to meet the UC/CSU “F” or “G” requirement and PUSD Fine Arts requirement.

AP STUDIO ART: 3D DESIGN (DMM/Sculpture, Animation) 0159 – 0160
Advanced Placement Studio Art: 3D Design provides instruction for the highly skilled exceptional students in 3D Design. The course assists these students in the preparation of a Three-Dimensional Design Portfolio. It is designed to address a very broad interpretation of sculpture issues in depth and space. These may include mass, volume, form, plane, light, and texture. Such elements and concepts can be articulated through additive, subtractive, and/or fabrication processes. Portfolio preparation involves a significant time commitment and is, therefore, intended for motivated students with advanced skills who are seriously dedicated to studying art. This course may be used to meet the UC/CSU “F” or “G” requirement and PUSD Fine Arts requirement.

STUDIO ART 0150
This is the third trimester of AP Studio Art, for those students who have advanced skills. The course is for students who have completed all other courses in one of the following areas or wish to pursue further study in that area: Drawing and Painting, Design and Mixed Media, Photography or Ceramics. Students will help determine the specific activities of the course by developing a written contract with the instructor. Course may be repeated for credit. This course may be used to meet the UC/CSU “F” or “G” requirement and PUSD Fine Arts requirement.

AP STUDIO ART: DRAWING 0151 – 0152
Advanced Placement Studio Art: Drawing provides instruction for the highly skilled exceptional students in drawing, painting, and three dimensional design. The course assists these students in the preparation of a portfolio for the Advance Placement program in Studio Art. Portfolio preparation involves a significant time commitment and is, therefore, intended for motivated students with advanced skills who are seriously dedicated to studying art. Course may be repeated for credit. This course may be used to meet the UC/CSU “F” or “G” requirement and PUSD Fine Arts requirement.
further study in that area: Drawing and Painting, Design and Mixed Media, Photography or Ceramics. Students will help determine the specific activities of the course by developing a written contract with the instructor. Course may be repeated for credit. This course may be used to meet the UC/CSU “F” or “G” requirement and PUSD Fine Arts requirement.

**ART APPRECIATION 1-2** 0113 – 0114
Art Appreciation 1-2 is an interactive course designed to allow students the experience of working in an artistic atmosphere and to participate in the processes used by artists to create works of art. These processes include conceptualizing, designing, drawing, painting, and finishing a variety of different media. Working through these processes, the student not only gains an appreciation for the artistic process but gains an insight into their own creative abilities. This course will give students a framework in which they may explore other creative outlets of their own. This course may be used to meet the UC/CSU “F” or “G” requirement and PUSD Fine Arts requirement.

**DESIGN & MIXED MEDIA (DMM) Sculpture 1 – 2** 0125 – 0126
Students enrolled in Design and Mixed Media 1-2 (2-D & 3-D Art) will be introduced to the elements of art and principles of design through exploration in various 2-Dimensional and 3-Dimensional art materials, including ceramic sculpture, drawing, painting, and mixed media. This course will provide opportunities for the student through art production, discussion, and explorations that emphasize art criticism, art history and art philosophy. This course may be used to meet the UC/CSU “F” or “G” requirement and PUSD Fine Arts requirement.

**DESIGN & MIXED MEDIA (DMM) Sculpture 3 – 4** 0127 – 0128
Successful completion of DMM1-2 required. Students enrolled in Design and Mixed Media 3-4 (2-D & 3-D Art) will further their exploration of the elements of art and principles through various art media, including ceramic sculpture, drawing, painting, and mixed media. This course will provide more advanced activities for the students through guided experiences in art production, classroom discussions and explorations that emphasize art criticism, art history, and art philosophy. This course may be used to meet the UC/CSU “F” or “G” requirement and PUSD Fine Arts requirement.

**DIGITAL MEDIA PRODUCTION 1 – 2** 0998 – 0999
The course concentrates on developing competency across the breadth of film and video production positions, from script creation to presentation of the finished product. Students will focus on: writing, directing, acting, producing, storyboarding, scheduling, cinematography, audio engineering, and editing. Students will be challenged with group assignments that will give them hands-on-experience with all elements of the production process. This course may be eligible for college credit if the student enrolls at the appropriate college while attending the Mt. Carmel class and receives a grade of A or B both quarters. This course may be used to meet the UC/CSU “F” or “G” requirement and PUSD Fine Arts requirement.

**DRAWING AND PAINTING 1 – 2** 0130 – 0131
This course is designed for students to develop their drawing and painting skills. Students will have an opportunity to create and evaluate a wide variety of artworks in drawing and painting media. The class will explore design elements including line, color, form, space, and texture. Composition and technical skills will also be covered. This course may be used to meet the UC/CSU “F” or “G” requirement and PUSD Fine Arts requirement.
DRAWING AND PAINTING 3 – 4  0132 – 0133
Successful completion of Drawing and Painting 1-2 required. This course is designed for students who have both the interest and talent to further develop their drawing and painting skills. Students will produce, view, discuss, and analyze a wide variety of drawings and paintings. These classes will be conducted in a studio environment which combines communication of ideas, symbols, moods, or feelings with originality. This course may be used to meet the UC/CSU “F” or “G” requirement and PUSD Fine Arts requirement.

PHOTOGRAPHY 1 – 2  0872 - 0873
An introductory art course in which students learn the basics of both black and white and digital photography. This includes learning composition and design elements, operating manual cameras, traditional darkroom skills, and digital editing techniques. There is also an introduction to vocational possibilities in the field of photography. Students may receive Fine Arts or Practical Arts graduation credit for this class. This course may be eligible for college credit if the student enrolls at the appropriate college while attending the Mt. Carmel class and receives a grade of A or B both quarters. This course may be used to meet the UC/CSU “F” or “G” requirement and PUSD Fine Arts requirement.

PHOTOGRAPHY 3 – 4  0874 – 0875
Successful completion of Photography 1-2 required. Photography 3-4 will continue fine tuning the skills learned in Photography 1-2 and will introduce advanced digital and darkroom skills to students. Students will learn to use photography as a way of communication and creative expression, imagination, emotion, and aesthetic perception, and will begin to develop their personal photographic style or direction. Students will be given the artistic freedom to choose between the mediums of digital or traditional black and white photography on many assignments. The critical evaluation of photographs through class critiques will also be emphasized throughout the course. This course may be used to meet the UC/CSU “F” or “G” requirement and PUSD Fine Arts requirement.

STUDIO ART  0150
This is the third trimester of AP Studio Art, for those students who have advanced skills. The course is also for students who have completed all other courses in one of the following areas or wish to pursue further study in that area: Drawing and Painting, Design and Mixed Media, Photography or Ceramics. Students will help determine the specific activities of the course by developing a written contract with the instructor. Course may be repeated for credit. This course may be used to meet the UC/CSU “F” or “G” requirement and PUSD Fine Arts requirement.
In addition to the following “G” courses listed, any additional “A”-“F” courses taken beyond the minimum required count as “G” electives. Some of the “G” electives also align with CTE (Career Technical Education) Pathways.

**AVID (Advancement Via Individual Determination)** see Courses Requiring Special Permission section

**COMPUTER SCIENCE (PLTW)**

**INTRODUCTION TO COMPUTER PROGRAMMING 1**  CTE  1058

A one trimester Introduction to Computer Programming introduces the students to the current computer programming language. Students will learn to develop algorithms, computer programming in the computer language, as well as learn the Windows XP operating system. The primary emphasis will be to learn the proper and efficient use of standard commands, structures, and statements in the computer programming language. This course will stress logic and analytical thinking skills. It is recommended for the college bound student planning on a business, math, or computer science major. This course is designed for the student planning to take AP Computer Science 1-2. This course has been approved to meet the UC "G" requirement.

**ENGINEERING (PLTW)**

**INTRODUCTION TO ENGINEERING DESIGN 1-2**  CTE  0854 – 0855

Introduction to Engineering Design 1-2 is the first course in the PLTW Engineering Pathway sequence. IED is an in-depth, project-based course that concentrates on 3D modeling using Autodesk Inventor. The course is divided into four units: The Design Process, Technical Drawing, 3D Modeling and Reverse Engineering. A foundation course in the Project Lead the Way Engineering pathway curricula, this course will give students the opportunity to use technology to learn about Engineering and Industrial Design. This course has been approved to meet the UC “G” requirement.

**HONORS PRINCIPLES OF ENGINEERING 1-2**  CTE  0840 – 0841

Successful completion of Intro Engineering and Design 1-2 required. Honors Principles of Engineering 1-2 is the second course in the PLTW Engineering Pathway sequence. In Honors Principles of Engineering 1-2 students explore a broad range of engineering topics including mechanisms, strength of structure and materials and automation. Students apply what they have learned to take on challenges like designing a solar-powered car. Frequent guest speakers and field trips give students a flavor of life as an engineer. This course has been approved to meet the UC “G” requirement.

**ENGINEERING DESIGN AND DEVELOPMENT 1-2**  CTE  0864 – 0865

Successful completion of Intro Engineering and Design 1-2 and Honors Principles of Engineering 1-2 required. Engineering Design and Development (EDD) is the capstone course in the Project Lead the Way (PLTW) high school engineering program. It is an engineering research course in which students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. The course applies, and concurrently develops, secondary level knowledge and skills in mathematics, science, and technology. This course has been approved to meet the UC “G” requirement.
JOURNALISM 1 0397
Successful completion of previous composition class recommended.
This course teaches news writing and other aspects of newspaper production. Included are lead writing, news writing, editorial writing, feature writing and headline writing. Also included are the legal aspects of copy reading, layout, makeup and journalism. One trimester of Journalism 1 or 2 has been approved to meet the UC/CSU “G” elective requirement.

JOURNALISM 2 (SCHOOL NEWSPAPER) 0398
Requires application and permission from instructor.
In Journalism 2, a two term/year-long course, students design and produce the school newspaper. They learn news, feature, review, editorial and sports writing styles. Using a computer desktop publishing program, they design pages and finalize their work. Students also familiarize themselves with the business aspects of newspaper production by handling advertising accounts. This course meets the districts Computer Literacy Requirement. This course may be used to meet the UC/CSU “G” requirement. (No more than two trimesters of Journalism may apply for college admission).

PSYCHOLOGY 1 1325
Psychology 1 is a one-trimester course which deals with the factors which help to shape an individual's personality and behavior. Topics include biological bases of behavior, physical maturation, the psychological development of the individual through various stages from infancy to adulthood, and perception. Other topics included are motivation, intelligence and behavior disorders. Various strategies are discussed which can help people attain healthy, normal relationships and solutions to frustrations and conflicts. This course may be used to meet the UC/CSU "G" elective requirement.

AP PSYCHOLOGY 1327 – 1328
The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental process of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. This course has been approved to meet the UC “G” requirement.

PSYCHOLOGY 2 1326
Psychology 2 serves as the third trimester of the AP Psychology 1-2 sequence. This course goes into greater depth in the areas of biological bases of behavior, physical maturation, the psychological development of the individual through various stages from infancy to adulthood, and perception. It will include the psychology of coping with adult and family crises, effective methods of communication, human relations, and exploration of personality theories of various schools of psychology. The focus is on application of psychology to life. This course has been approved to meet the UC “G” requirement.

SOCIOLOGY 1360
Sociology is a one-trimester course on the scientific study of human behavior. The course examines what external forces shape individual and group behavior. The focus is on groups and social institutions that influence us and how we can influence others. Course provides an introduction to the concepts and methods of social inquiry. Students examine such topics as development of self, socialization, culture,
social interaction, deviance, inequality, diversity, and social change. This course has been approved to the UC/CSU “G” elective requirement.

**SPORTS MEDICINE / ATHLETIC TRAINING 1 – 2  CTE 0882 – 0883 Grades 10, 11, 12**
The activities and projects introduce students to the roles and responsibilities of an athletic trainer and of the sports medicine team. Students will learn anatomy and physiology, assessment of injuries knowledge of prevention recognition and rehabilitation. Students will participate in 20 hours of field experience in the athletic training environment. This course has been approved to the UC/CSU “G” elective requirement.

**SPORTS MEDICINE / ATHLETIC TRAINING 3 – 4  CTE 1686 – 1687 Grades 11, 12**
Requires successful completion of Biology 1-2 and Sports Medicine/Athletic Training 1-2.
The course explores the roles and responsibilities of an athletic trainer and other healthcare professionals who are part of the sports medicine team. This course is designed to provide advanced learning of all the concepts from Sports Medicine 1-2. This course has been approved to the UC/CSU “G” elective requirement.

**WRITING SEMINAR 1 – 2  0363 – 0364 Grades 11 - 12**
Writing Seminar is designed for students with an interest in creative written expression and an interest in the connection between writing and reading. The course has three purposes: 1) to explore and practice various styles of expository and narrative writing, 2) to understand the writing process and the importance of revision to writers, and 3) to read critically various pieces of literature and to apply the techniques of published writers into their own analyses. This course may be used to meet the UC/CSU "G" requirement.

**YEARBOOK 1630 – 1631**
Interview with Yearbook Advisor, or recommendation by Counselor.
The purpose of the Yearbook class is to produce the school yearbook. Students learn copywriting, interviewing, photography, layout and design. Responsible students with initiative tackle long-term assignments that ultimately comprise the yearbook. This course may be used to meet the UC/CSU "G" requirement.
**Career Technical Education (CTE) & Other Electives**

**3D COMPUTER ANIMATION 5 – 6 CTE 0861 -0862**
Successful completion of 3D Computer Animation 3-4 required. Advanced Animation will introduce students to the principles of computer animation and to the various programs used in the production of this art form. It will continue to stress the fundamentals of pencil animation and build on the skills developed in Basic Animation 1-2. Claymation and the fundamentals of video will be merged with the pencil and computer to broaden the possibilities of creativity. It will also offer a foundation for those students who wish to pursue a career in animation and/or relative fields. These areas will include set design, acting, producing, directing, background artists, inkers, inbetweeners, 3-D animators, 3-D modelers, sound editing, storyboarding, and script writing.

**ACADEMIC TUTOR 1 1864**
This course will provide students with improved communication and organizational skills in addition to increased mastery of academic content area skills. Under the supervision of a classroom teacher, tutors will provide individual or small group facilitation designed to increase students’ ability to think, read, write and communicate critically. The design of the course provides tutors with necessary tools and processes to work most effectively with students in a one on one or group study environment. Students will receive instruction from their supervising teacher within the context of the class. Successful completion of this course will earn elective credit. This course is repeatable up to 10 credits.

**ACADEMIC TUTOR SCIENCE 1859**
Academic Tutor/Science is designed for students seeking to further their knowledge in a science course while serving in a leadership position to assist in the daily activities of a science classroom. Responsibilities in the classroom will prepare the student for career pathways such as lab tech, science educator, and research scientist. This course reinforces many of the NGSS Science and Engineering Practices (SEPs). Students will be involved with the planning, administering and instruction of lessons. Students will serve as a mentor for their peers enrolled in the science course by tutoring students, teaching proper safety protocol and use of lab equipment. Successful completion of this course will earn elective credit.

**AUTOMOTIVE TECHNOLOGY 1-2-3 CTE 0901 – 0902 – 0903**
Course can be taken individually (one or two trimesters). Automotive Technology 1-2 provides entry-level training for the auto service occupations and prepares students for post-secondary study in automotive and engineering fields. It is the first course in a sequence. In Auto Tech 3 student could obtain ASE Certification in A6 & A8 with successful completion of Auto Tech 1-3 and could work as entry-level mechanics with A1, A4, A5, A6 and A8 certification. Students will be required to conform to dress codes and other safety-related standards. Upon completion of the course with a grade of B or higher, a student will receive Palomar College credit.

**AUTOMOTIVE TECHNOLOGY 4-5-6 CTE 0904 – 0916 - 0917**
Students continue yearlong study to prepare for ASE Cert in L1 Advanced Engine Performance Test. Completion of the 2-year sequence and passing the exams will allow students to be ASE certified to work as a mechanic at a dealership.

**DIGITAL MEDIA PRODUCTION 3-4 CTE 0996 – 0997**
This course is a continuation of Digital Media Production 1-2. In this course, students take the skills learned in the first course of the sequence and choose area in which to specialize (writing, directing, acting, producing, storyboarding, scheduling, cinematography, lighting design, audio engineering, and editing). Students develop advanced skills within their areas of specialization and collaborate on
projects with students who are specializing on other areas. The course will expose students to the proper use of state-of-the-art film and video production tools as well as access to professional seminars from industry professionals. They will learn the vocabulary of film and use it to express themselves clearly and concisely in their writings for that industry. They will be using industry standards in computer hardware and editing software. **This course has been submitted to meet the UC/CSU “F” requirement, PUSD Fine Art or elective graduation requirement.**  

**DIGITAL MEDIA PRODUCTION ADVANCED CTE 1000**

Advanced Digital Media Production will provide students an opportunity to continue developing their pre & post productions skills in film and video. Students will be challenged with advanced group assignments that will give them an opportunity to explore and showcase their ideas. Students will also study the impact of film and television on society from its social, economic, and political viewpoint. **This course has been submitted to meet the UC “F” requirement, PUSD Fine Arts requirement or elective credit graduation requirements.**

**FIRE SCIENCE 1-2-3 CTE 0878 – 0879 – 0884**

*This course articulates with Palomar College.* This three trimester series of courses articulates with Palomar College courses FIRE 51 Fire Academy Preparation, FIRE 98 Fire Service Skills, and FIRE 100 Fire Protection Organization (7 units). In order to gain credits from Palomar College for completion of the course sequence at Mt. Carmel, students must complete the following:

- Student must complete and submit an Application for Admission to Palomar College.
- Student must complete the articulated course with a grade of “B” or better.
- The high school teacher must complete and submit an official grade report for his/her course to the Palomar College CTE Transitions Office (Career and Technical Education)

**FIRST RESPONDER CTE 0885**

First Responder is a 1-trimester elective class that offers entry-level training in emergency medical services (EMS) or emergency medical technician (EMT). Students will learn anatomy/physiology, CPR, checking for vital signs, bandaging, universal precautions, lifting and moving patients, and bleeding control. Students will use equipment such as mannequins, blood pressure cuffs, thermometers, splints, tourniquets, defibrillators, bandages, stethoscopes and stretchers. The study and application of emergency medical skills and procedures, including basic anatomy and physiology, terminology and prevention of disease transmission. This course is designed for those who have an interest in pursuing a career in the field of emergency medicine including firefighting, ambulance driving, doctor, nursing, or just students who are interested in learning basic medical procedures when presented with medical emergencies in daily life.

*The class articulates with Palomar College for 3 college units with a grade of B or higher and takes the place of Palomar’s EME 100, which Palomar requires of all EMT students in order to be certified.* Students will earn CPR certification from the American Heart Association.

*In order to gain credits from Palomar College:

1. Student must complete and submit an Application for Admission to Palomar College.
2. Student must complete the articulated course with a grade of “B” or better.
3. The high school teacher must complete and submit an official grade report for his/her course to the Palomar College CTE Transitions Office (Career and Technical Education)

**INTERNSHIP 1650 Grade 12**

Internships allow the student to learn and to work in a chosen career area. Interns are matched to employers based on their career interests, skills, and abilities. Student interns must complete and
document 50-100 hours on-the-job and attend weekly classes. Students must maintain an academic GPA of 2.0 or higher to remain in the program. Students must provide their own transportation.

**INTRODUCTION TO COMPUTER SCIENCE A 1  CTE  0229**
Introduction to Computer Science A is a one-trimester course designed to be the first computer science course for students who have never programmed before. Introduction to Computer Science is an optional starting point for the PLTW (Project Lead The Way) Computer Science program. Students work in teams to create apps for mobile devices using MIT App Inventor. They explore the impact of computing in society and build skills in digital citizenship and cybersecurity. In addition, students create algorithms for games of chance and strategy.

**LIBRARY & INFORMATION SCIENCE TEACHING ASSISTANT  1842 – 1843**
This course is designed to create independent learners who can thrive in an information-based society and who will enter adulthood with the abilities to fulfill their academic, personal and professional needs. Using both the standards for the American Association of School Librarians and the California Literacy Standards, our students will be prepared for any postsecondary education or training experience. The focus of the course will be on developing students’ research, digital competency, organizational and management skills. Students will refine their use of various electronic sources, online databases, general and specialized reference books, and use specific organizational tools and retrieval skills while researching specific topics. Successful completion of this course will earn elective credit.

**DANCE PROPS (TALL FLAGS/COLOR GUARD)  1199 – 1193 – 1194**
Modern color guard uses flags, sabers, mock rifles and other equipment combined with choreographed dance, interpretive movement and gymnastics while performing routines set to music. During the fall, members of the Color Guard team perform and compete along with the MC Marching Band at football games, field show tournaments and parades. The guard provides visual interest and “color” to the band’s performances. After marching season concludes, the Winter Guard team performs throughout San Diego and Southern CA in Guard only competitions. Winter Guard is conducted indoors, usually in a gym or indoor arena. Choreographed routines are performed to music. Each season, the highest ranking teams move on to nationals in Ohio. WGI rules for Winter Guard. WGASC Winter Guard Association of Southern California Students interested in joining the Mt. Carmel Color Guard team should contact Band Director Garry McPherson at gmcpherson@powayusd.com. Participation in Guard will earn you P.E. credit first trimester. Visit http://mchsband.com/color-guard/ for more information.

**WORK EXPERIENCE  1818  Grade 11, 12**
Work Experience is a one-trimester class, repeatable, open to students age 16 or older who are working an average of 10 hours per week and are being supervised on the job. Work experience provides an opportunity for students to sample systematically and observe a variety of conditions of work that will contribute to their career guidance and development. Students meet once a week in class to cover curriculum standards and framework including:

I. **Employment Cycle:** Getting a job, keeping/advancing on a job and leaving a job. Includes resume writing and developing interviewing skills.

II. **Career Development:** career awareness, career decision-making, and career planning

III. **Economic awareness:** financial management, consumer decision-making and economic role of employees.
Health and Physical Education

HEALTH 0515
Health is a one-trimester course designed to teach students to take personal responsibility for lifelong health, including and understanding of the variety of physical, mental, emotional, and social changes that occur throughout life. Students will gain knowledge and develop skills in such areas as substance abuse and prevention, infectious and chronic diseases, decision-making and effective communication, nutrition and fitness, family life and sex education. Throughout the course, students will develop understanding and respect for the health and well-being of others. Note: This course meets the PUSD Health graduation requirement.

FRESHMAN PHYSICAL EDUCATION 1 – 2 – 2 (3 Trimesters) 1400 – 1401 – 1401
All freshmen in the state of California are required to take yearlong PE; students must satisfy the California Physical Fitness Test and take one more PE course in another grade (10th-12th) to meet the PUSD Physical Education graduation requirement. Freshman PE provides students the opportunity to learn and apply core concepts of Health Science and Physical Education. It is designed to provide students with the knowledge and ability to attain and maintain an active, healthy lifestyle. There is a strong emphasis on individual fitness, exercise physiology, biomechanics, motor learning and anatomy/physiology. During the freshman year, students will be exposed to six different activities, including one from each of the following: aquatics, individual/dual sports, team sports, fitness and weight training. This course sequence satisfies 15 units of the 20-unit Physical Education graduation requirement.

ADVANCED BASEBALL-WEIGHT TRAINING 1410
Advanced Baseball/Weight Training is a course designed to enhance the basic fundamentals of baseball and provide a program for physical conditioning.

ADVANCED BASKETBALL 1414
Advanced Basketball is a course designed to refine intermediate skills and to teach techniques that are more difficult.

ADVANCED DANCE 1-2 1430 - 1431
Advanced Dance is an accelerated class designed to explore dance from many vantage points. Advanced dance technique will be the basis of the class. Choreography, dance history, interpretive qualities and originality will complement the class. Performance of original choreographies will be mandatory. Elements of critiquing the art of dance will also be refined. This course sequence (both trimesters) meets the UC/CSU “F” requirement or can be applied to PUSD PE graduation requirement if “F” has already been satisfied.

ADVANCED FOOTBALL-WEIGHT TRAINING 1496
Advanced Football/Weight Training is a course designed to enhance the fundamentals of football and provide a program for physical conditioning.

ADVANCED SOCCER 1465
Designed to increase student skill level with an emphasis on development of advanced soccer skills in the areas of shooting, passing, dribbling, ball control, heading, and goalkeeping. Students are taught game rules, set plays, creating space, offensive and defensive principles and individual, group and team tactics.
Health and Physical Education

ADVANCED SWIMMING  1472
This course is designed to provide more capable swimmers with an opportunity to expand their knowledge and skills. Emphasis will be on improving the four competitive strokes, breathing technique, starts and turns.

ADVANCED VOLLEYBALL  1490
Advanced Volleyball is a course in which students practice the basic skills of volleyball: bump, set, spike, and serve. Students are taught advanced offensive and defensive techniques.

ADVANCED WRESTLING-WEIGHT TRAINING  1495
Wrestling is designed to introduce wrestling to those students who have no experience on the high school level. Emphasis will be placed on the rules and on the fundamental moves of the sport.

AEROBICS-WEIGHT TRAINING  1427
Aerobics/Weights is a course in which students are taught basic exercise movements and rhythmic fundamentals to enhance all body parts. This course emphasizes developing and improving cardiovascular fitness, toning muscles, and improving flexibility. Students will also participate in fitness activities and testing.

BADMINTON  1402
The course will offer the basic skills and knowledge to perform the activity at the novice level.

BEGINNING BASKETBALL  1412
This course is designed to increase students’ proficiency in the sport through learning and practicing fundamental skills, rules and techniques of the game.

BEGINNING DANCE  1436
Beginning dance is an overview of various styles of dance for new dancers to learn the basics. Styles will include ballet, jazz, modern, and hip-hop. Students will learn the foundations of choreography and history of the various styles.

BEGINNING RACQUETBALL  1458
Beginning Racquetball is a course in which students are taught the fundamental skills of three-wall racquetball, including the serve, forehand shots, backhand shots, and two- and three-wall shots, as well as rules, court position, and simple game strategies.

COURT SPORTS  1416
Students will understand, participate and teach the advanced principles of training and competition for Court Sports that include Basketball, Volleyball and Badminton. Areas of study will include understanding and execution of advanced offensive and defensive strategies, development of appropriate training practices, and application of dynamic scientific principles, sports psychology, optimal nutritional habits, application and modification of rules of the game, officiating, tournament facilitation and coaching.

FIELD SPORTS  1418
Students will understand, participate and teach the advanced principles of training and competition for Field Sports that include Football, Soccer, Lacrosse, and Speedball. Areas of study will include understanding and execution of advanced offensive and defensive strategies, development of appropriate
training practices, and application of dynamic scientific principles, sports psychology, optimal nutritional habits, application and modification of rules of the game, officiating, tournament facilitation and coaching.

**FITNESS & CONDITIONING**  1403
This course is an introduction to basic fitness practices and principles. Instruction includes weightlifting technique, cardiovascular fitness principles, and flexibility routines. Students will learn and demonstrate the benefits of fitness and conditioning including increased strength, endurance, and flexibility. This course is intended to assist the individual student to gain knowledge and experience in an exercise program the student can apply throughout his or her lifetime.

**FLAG FOOTBALL**  1435
Flag Football is an introductory course that will include fundamental offensive and defensive formations, basic plays and strategies, and rules without physical contact. Weight training includes required exercises for the major muscle groups.

**FUTSAL**  1408
Students learn the basic skills of Futsal and indoor soccer. Games are played daily in the gym in a high-energy environment with music and high-speed play.

**INTERMEDIATE DANCE**  1429
Intermediate Dance is designed to give those students with previous experience a chance to progress onto more challenging dance techniques. Choreography, vocabulary of dance, dance history and elements of critiquing the art of dance will be included in the class. In addition, performances of choreographed and original dance routines will be mandatory. This course can be taken two trimesters and meets the UC/CSU “F” requirement or can be applied to PUSD PE graduation requirement if “F” has already been satisfied.

**MODERN DANCE**  1432
Modern Dance is a course that teaches dance exercises and techniques, movement exploration through creative improvisation, and elementary dance composition.

**O.C.I.S./P.E**  1498
Application and Administrative approval required. District established timelines enforced. See Athletics Department Assistant in Administration building. Off Campus Independent Study/Physical Education is available to students who are participating in an approved preparation program for national amateur competition in swimming, ice skating, gymnastics, tennis or dance. Students must be training at least 15 hours a week under the direct supervision of a certified coach and must be participating in regional, state, or national competition during the Trimester of enrollment. Hours of participation in Mt. Carmel’s athletic program cannot be used toward the O.C.I.S. P.E. program.

**RACQUET SPORTS**  1420
Students will understand, participate and teach the advanced principles of training and competition for Racquet Sports that include Tennis, Racquetball and Badminton. Areas of study will include understanding and execution of advanced offensive and defensive strategies, development of
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appropriate training practices, and application of dynamic scientific principles, sports psychology, optimal nutritional habits, application and modification of rules of the game, officiating, tournament facilitation and coaching.

SOCCER 1464
Soccer is a course in which students are taught a wide variety of soccer skills including kicking, passing, heading, dribbling, and goalkeeping. Students are also taught game rules and game strategy.

WEIGHT TRAINING 1493
Weight Training is a course in which students are involved in the isotonic type of weight training, running, plyometrics, stretching and cross training. The isotonic weight lifting will be performed on both the universal weight machine and free weights. Students will participate in fitness activities, testing and a variety of fun activities.

YOGA 1424
This course is an introduction to basic yoga practices and principles. Instruction includes yoga postures, guided relaxations, and breathing practices. The benefits of yoga include increased flexibility, strength, balance, and body awareness as well as stress reduction and a greater ability to focus. Yoga can be beneficial to various health conditions such as hypertension, asthma and back problems. The content of this course is intended to assist the individual student gain knowledge and experience in developing an exercise program they can apply throughout their lifetime.

Note: Not all Physical Education Courses listed are offered each year.
**Special Programs Requiring Permission**

**AVID (Advancement Via Individual Determination)**

AVID students are often historically underserved in four-year colleges – ethnicity underrepresented and/or low income and/or first generation college students and/or special circumstances who:

- Have average to high standardized test scores
- Have a minimum 2.2 GPA
- Have academic potential for a four year college
- Have good citizenship and attendance
- Have full commitment to the program

**AVID 9 1-2 1595 - 1596**

AVID is a program designed to aid students who have college potential and a strong work ethic by providing additional support. Students commit to completing the University of California “A-G” requirements, repeating in summer school any class in which they earn a “D” or an “F,” and taking an AVID class two trimesters each year. The elective class has college tutors who assist students in other classes, in addition to focused note-taking, organization skills, time management, test-taking strategies, writing across the curriculum and the inquiry method. Additionally, students have guest speakers, research projects and take field trips to colleges. The theme for the year is “Success Plan” as the intention is to best prepare students for life at the high school level. This course may be used to meet the UC/CSU "G" requirement.

NOTE: The AVID coordinator considers admittance based on application and interview.

**AVID 10 3-4 1597 - 1598**

AVID 3-4 is a continuation of the AVID program for promotion of students with college potential. Many of the same foundational skills continue with depth, in addition to an introduction to financial literacy, a personal passion project and debates. The theme for the year is “School Culture” as the intention is to best prepare students to be leaders on campus. This course has been approved to meet the UC "G" requirement.

NOTE: The AVID coordinator considers admittance based on application and interview.

**AVID 11 5-6 1599 - 1600**

The 11th grade AVID course is an elective class for students who are college bound. Again, many of the foundational pieces continue through the third year. To ensure continued success in college-prep course work, students work individually, as well as in tutor-led collaborative groups, to develop stronger academic skills in a variety of content areas. Note taking, outlining, writing, speaking, reading, test-taking strategies, and scholarships are stressed. In addition, the course includes college motivational and career exploration activities. There is also the opportunity for an overnight field trip to explore college beyond San Diego. The theme for the year is “School Leadership” as the intention is to best prepare students to not only be leaders on campus, but into the community. This course has been approved to meet the UC "G" requirement.
**Special Programs Requiring Permission**

**AVID 12 7/8 1607 – 1608**
The AVID 7/8 course follows the weekly structure of all AVID classes, with two days of teacher-led curriculum per week, two days of tutorials, and a day allocated for guest speakers, Socratic Seminars, project planning and working with our tutors. The course involves substantial critical reading and writing, preparation for external exams such as the Advanced Placement, and weekly Socratic seminars led by the students. Students will complete comparative literature analysis and writings. In addition, students are required to make oral presentations to the class on topics related to college entrance, contemporary issues, and social concerns. The theme for the year is “Community and Future Leadership” as the intention is to best prepare the students to reflect on their potential impact for the future. This course has been approved to meet the UC/CSU “G” requirement.

**ASB / STUDENT LEADERSHIP**

**ASB - PLANNING & LEADERSHIP 1-2 1879 - 1880**
ASB is a planning and leadership class in which students experience and gain skills in leadership, parliamentary procedures, group processes, event planning, organization, goal setting, communication strategies, community service, and school-wide involvement through the planning of events and activities on campus. ASB oversees school clubs, budgets, staff and student recognition, publicity, public relations, student store, fundraising, dances, pep rallies, spirit days, cultural events, elections, and all class councils. The students are placed in period 3 ASB by teacher approval based upon the ASB election process. Freshman class elections are held in the Fall and the class President and Vice President.

**SCHOOL NEWS BROADCAST**

**DIGITAL MEDIA PRODUCTION 3-4 0996-0997**
This course is a continuation of Digital Media Production 1-2. In this course, students take the skills learned in the first course of the sequence and choose area in which to specialize (writing, directing, acting, producing, storyboarding, scheduling, cinematography, lighting design, audio engineering, and editing). Students develop advanced skills within their areas of specialization and collaborate on projects with students who are specializing on other areas. The course will expose students to the proper use of state-of-the-art film and video production tools as well as access to professional seminars from industry professionals. They will learn the vocabulary of film and use it to express themselves clearly and concisely in their writings for that industry. They will be using industry standards in computer hardware and editing software. This course meets the PUSD Fine Art or elective graduation requirement.

**DIGITAL MEDIA PRODUCTION ADVANCED 001000**
Advanced Digital Media Production will provide students an opportunity to continue developing their pre & post productions skills in film and video. Students will be challenged with advanced group assignments that will give them an opportunity to explore and showcase their ideas. Students will also study the impact of film and television on society from its social, economic, and political viewpoint. This course meets the PUSD Fine Art or elective graduation requirement.
Special Programs Requiring Permission

**SCHOOL NEWSPAPER**

**JOURNALISM 2 (School Newspaper) 0398 – 0398 - 0398**

Requires application and permission from instructor.

In Journalism 2 students design and produce the school newspaper. They learn news, feature, review, editorial and sports writing styles. Using a computer desktop publishing program, they design pages and finalize their work. Students also familiarize themselves with the business aspects of newspaper production by handling advertising accounts. This course meets the districts Computer Literacy Requirement. This course may be used to meet the UC/CSU “G” requirement. (No more than two trimesters of Journalism may apply for college admission).

**YEARBOOK**

**YEARBOOK 1630 – 1631-1631**

The purpose of the Yearbook class is to produce the school yearbook. Students learn copywriting, interviewing, photography, layout and design. Responsible students with initiative tackle long-term assignments that ultimately comprise the yearbook. This year-long, 10-unit course officially meets on half of the year’s school days; students are off-roll on the others. This course meets UC/CSU “G” requirement.

**OCIS/PE**

**O.C.I.S./P.E 1498**

Off Campus Independent Study/Physical Education is available to students who are participating in an approved preparation program for national amateur competition in swimming, ice skating, gymnastics, tennis or dance. Students must be training at least 15 hours a week under the direct supervision of a certified coach and must be participating in regional, state, or national competition during the Trimester of enrollment. Hours of participation in Mt. Carmel's athletic program cannot be used toward the O.C.I.S. P.E. program.

NOTE: Admission to the program is made through an extensive written application process. Admission and other program deadlines must be adhered to.