ARMY & NAVY ACADEMY

BE BOLD. BE BRILLIANT. BE YOU.

Course Catalog

2025 - 2026

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REQUIRED & RECOMMENDED COURSES FOR CHOSEN PATH

Army and Navy Academy Graduation Requirements	California State University (CSU) and University of California (UC) A-G Requirements	Service Academies	Highly Selective Colleges and Universities Including most UCs
HISTORY/SOCIAL SCIENCE 6 Semesters = 3 Years	**HISTORY/SOCIAL SCIENCE** 4 Semesters = 2 Years	**HISTORY/SOCIAL SCIENCE** 4 Semesters = 2 Years	**HISTORY/SOCIAL SCIENCE** 4 Semesters = 2 Years
ENGLISH 8 Semesters = 4 Years	**ENGLISH** 8 Semesters = 4 Years	**ENGLISH** 8 Semesters = 4 Years	**ENGLISH** 8 Semesters = 4 Years
MATHEMATICS 6 Semesters = 3 Years	**MATHEMATICS** 6 Semesters = 3 Years	**MATHEMATICS** 6 Semesters = 3 Years	**MATHEMATICS** 8 Semesters = 4 Years
SCIENCE 6 Semesters = 3 Years 1 year of each: Biological, Chemistry, and Physics	**SCIENCE** 4 Semesters = 2 Years Recommended at least 3 years: Biological, Chemistry, and Physics	**SCIENCE** 4 Semesters = 2 Years Recommended at least 3 years: Biological, Chemistry, and Physics	**SCIENCE** 6 Semesters = 3 Years At least 2 years in the same discipline (Biology/Chemistry/Physics)
LANGUAGE OTHER THAN ENGLISH 4 Semesters = 2 Years of the same language	**LANGUAGE OTHER THAN ENGLISH** 4 Semesters = 2 Years of the same language Recommend 3 years	**LANGUAGE OTHER THAN ENGLISH** 8 Semesters = 4 Years of the same language	**LANGUAGE OTHER THAN ENGLISH** 8 Semesters = 4 Years of the same language
FINE ART 2 Semesters = 1 Year	**FINE ART** 2 Semesters = 1 Year In the same discipline	**FINE ART** 2 Semesters = 1 Year In the same discipline	**FINE ART** 2 Semesters = 1 Year In the same discipline
COLLEGE PREP ELECTIVE 2 Semesters = 1 Year	**COLLEGE PREP ELECTIVE** 2 Semesters = 1 Year Chosen from additional A-G courses beyond those used to satisfy the requirements above	**COLLEGE PREP ELECTIVE** 2 Semesters = 1 Year Chosen from additional A-G courses beyond those used to satisfy the requirements above	**COLLEGE PREP ELECTIVE** 2 Semesters = 1 Year Chosen from additional A-G courses beyond those used to satisfy the requirements above
LEADERSHIP EDUCATION TRAINING (LET) 8 Semesters = 4 Years			
PHYSICAL EDUCATION 8 Semesters = 4 Years			
ELECTIVES Chosen from additional academic or elective courses beyond the required minimum	Recommend at least 1 Honors or AP Course	Recommend several Honors and AP courses	Recommend several Honors and AP courses

HISTORY/SOCIAL SCIENCE - UC/CSU “A”

WORLD HISTORY	4031/4032	GRADE: 9 OR 10	UC/CSU:"A"

This course provides students with a broad survey of world history, examining the major civilizations, events, and ideas that have shaped human society from ancient times to the modern era. Students will explore key themes, including political systems, economic structures, cultural developments, and global interactions. Key topics include ancient civilizations and classical empires, the spread of religions and cultural diffusion, the Middle Ages and Renaissance, the Age of Exploration and colonialism, the Enlightenment and revolutions, industrialization and imperialism, World War I and World War II, the Cold War and decolonization, and globalization and contemporary world issues. Through primary and secondary source analysis, historical debates, and project-based learning, students will develop historical thinking skills, including comparison, causation, and change over time. The course encourages students to examine diverse perspectives, analyze global connections, and understand how past events continue to shape the world today. By the end of the course, students will have a deeper understanding of world history and be able to engage in meaningful discussions about historical patterns, international relations, and global challenges.

AP WORLD HISTORY	4251/4252	GRADE: 9 OR 10	UC/CSU:"A"

AP World History: Modern is a college-level course that explores global history from c. 1200 CE to the present, focusing on historical developments, connections, and themes across different civilizations. Students will analyze how societies have interacted, adapted, and evolved through political, economic, cultural, and technological changes. Key topics include the expansion of trade networks, state-building and empire expansion, the Columbian Exchange and its effects, industrialization and economic systems, revolutions and nationalism, global conflicts in the 20th century, and modern globalization. The course emphasizes historical thinking skills, including comparison, causation, continuity and change over time, and document analysis. Through primary and secondary source analysis, historical argumentation, and essay writing, students will develop the skills necessary to analyze complex historical events and trends. This course prepares students for the AP World History: Modern Exam and provides a broad understanding of the forces that have shaped our interconnected world.By the end of the course, students will be able to critically examine historical narratives, assess global patterns, and develop well-supported historical arguments.

AP HUMAN GEOGRAPHY	4241/4242	GRADE: 9 OR 10	UC/CSU:"A"

AP Human Geography is a college-level course that examines patterns and processes shaping human interaction with the Earth. Students will explore spatial concepts and landscapes to understand the connections between populations, cultures, economies, and political structures. Key topics include population and migration patterns, cultural landscapes and diffusion, political geography and borders, agriculture and rural land use, industrialization and economic development, urbanization and city planning, and human impact on the environment. Students will analyze geographic models, interpret data through maps and charts, and evaluate case studies from around the world. Through inquiry-based learning, data analysis, and geographic problem-solving, students will develop skills in spatial reasoning and critical thinking. The course prepares students for the AP Human Geography Exam and provides a foundation for further studies in global studies, economics, and environmental science. By the end of the course, students will be able to apply geographic reasoning to real-world issues, assess global trends, and understand how human activity influences spatial organization and development.

UNITED STATES HISTORY	4051/4052	GRADE: 11	UC/CSU:"A"
This course provides students with a comprehensive survey of U.S. history, exploring the social, political, economic, and cultural developments that have shaped the nation. Students will analyze key events, movements, and figures from pre-Columbian America to the present, examining how historical trends continue to influence contemporary society. Key topics include colonial America and the founding of the nation, the American Revolution, the Constitution and the growth of democracy, westward expansion, the Civil War and Reconstruction, industrialization and urbanization, Progressivism and the rise of the U.S. as a global power, the Great Depression and World War II, the Cold War era, civil rights movements, and modern America. Students will engage in historical analysis, primary and secondary source evaluations, and project-based learning to develop critical thinking and research skills. The course emphasizes cause and effect relationships, historical argumentation, and thematic connections across time periods. By the end of the course, students will be able to critically assess historical events, connect past events to present-day issues, and develop informed perspectives on the evolution of American democracy.			

AP US HISTORY	4061/4062	GRADE: 11	UC/CSU:"A"
AP U.S. History is a college-level course that explores the political, social, economic, and cultural history of the United States from pre-Columbian times to the present. Students will analyze key historical events, movements, and themes to understand the development of American identity and democracy. Key topics include colonial America, the American Revolution, the Constitution and early republic, westward expansion, the Civil War and Reconstruction, industrialization and urbanization, the Great Depression and New Deal, Cold War politics, civil rights movements, and modern American history. The course emphasizes historical thinking skills such as contextualization, argument development, and the use of primary and secondary sources. Students will engage in document analysis, historical debates, and essay writing to prepare for the AP U.S. History Exam. The course provides students with a deeper understanding of America's past and its influence on contemporary society. By the end of the course, students will be able to analyze historical events with a critical perspective, construct well-supported arguments, and connect past events to present-day issues.			

UNITED STATES GOVERNMENT	4161	GRADE: 12	UC/CSU:"A"
This course provides students with a comprehensive understanding of the foundations, structure, and functions of the U.S. government. Through an exploration of constitutional principles, political institutions, and civic engagement, students will analyze how the government operates and impacts their daily lives. Key topics include the Constitution, federalism, the separation of powers, the roles of Congress, the Presidency, and the Judiciary, civil rights and liberties, political participation, elections, and public policy. Students will examine landmark Supreme Court cases, analyze the role of political parties and interest groups, and evaluate the impact of government decisions on society. Through discussions, simulations, and project-based learning, students will engage in meaningful debates, role-play government processes, and apply their knowledge to contemporary political issues. The course emphasizes the development of critical thinking and civic literacy, preparing students to be informed and active participants in democracy. By the end of the course, students will have a deeper understanding of their rights and responsibilities as citizens, the workings of the U.S. government, and the ability to critically evaluate political systems and policies.			

BUSINESS ECONOMICS	4272	GRADE: 12	UC/CSU:"A"

This course provides students with a deep understanding of economic principles as they apply to business decision-making and market interactions. Students will explore key microeconomic concepts such as supply and demand, production and cost analysis, business structures, pricing strategies, competition, and government regulation. The course emphasizes how businesses operate within various market structures and how firms make strategic decisions to maximize efficiency and profitability.

AP US GOVERNMENT & POLITICS	4171	GRADE: 12	UC/CSU:"A"

AP U.S. Government and Politics is a college-level course that provides students with an in-depth exploration of the American political system, its institutions, processes, and policies. This course emphasizes the principles of constitutional democracy, the structure of government, political behavior, and the role of institutions in shaping public policy. Students will engage with key topics, including the Constitutional Foundations, Federalism, Civil Rights and Liberties, Congress, the Presidency, and the Judiciary, Political Parties and Elections, Interest Groups and Media Influence, and Public Policy Development. The course includes an analysis of Supreme Court cases, foundational documents, and current political events to develop students' ability to think critically about the U.S. political system. Through case studies, debates, research projects, and simulations, students will apply their knowledge to real-world political issues and develop evidence-based arguments. Emphasis is placed on analytical writing, data interpretation, and argumentation skills in preparation for the AP U.S. Government and Politics Exam. By the end of the course, students will have a strong foundation in U.S. government principles, be prepared for the AP Exam, and develop the civic knowledge necessary to engage as informed and active participants in democracy.

AP MICROECONOMICS	4182	GRADE: 12	UC/CSU:"A" or "G"

AP Microeconomics is a college-level course that provides students with an in-depth understanding of the principles governing individual economic decision-making. The course focuses on how consumers and firms interact in markets, how resources are allocated efficiently, and how government policies influence economic outcomes. Key topics include supply and demand, elasticity, consumer choice, production and cost structures, market failures, and various market structures such as perfect competition, monopoly, monopolistic competition, and oligopoly. Students will also explore concepts such as externalities, income distribution, and the role of public policy in addressing economic inefficiencies. Through rigorous analysis, mathematical modeling, and real-world applications, students will develop critical thinking skills and economic reasoning. They will engage in problem-solving exercises, data interpretation, and case studies to prepare for the AP Exam. This course is ideal for students interested in business, economics, or social sciences and fulfills the requirements set by the College Board for AP Microeconomics. By the end of the course, students will be prepared to take the AP Microeconomics Exam and apply microeconomic principles to real-world scenarios, policy debates, and future academic pursuits.

ENGLISH - UC/CSU “B”

ENGLISH 9	1051/1052	GRADE: 9	UC/CSU: "B"
English 9 focuses on improving writing skills and advanced reading comprehension. It emphasizes narrative and expository writing with academic language, along with developing strategies to identify main ideas, infer authorial meanings, and recognize literary devices, while also incorporating grammar and SAT vocabulary. Cadets participate in open-ended Socratic discussions related to the texts they engage with.			

ENGLISH 10	1071/1072	GRADE: 10	UC/CSU: "B"
The objective of English 10 is to develop skills in reading comprehension, composition, and oral communication. The course exposes Cadets to all forms of literature, including short stories, nonfiction, poetry, drama, and novels. Cadets learn how to read actively in order to improve comprehension and retention of their readings. To prepare for the written portion of the SAT test, students learn the strategies of rhetorical analysis, focusing specifically on what an author does to build an argument. They will formulate their own arguments, making claims, selecting evidence, and explaining their reasoning. Writing will be taught as a process, focusing specifically on both the idea-generating and proofreading stages. Weekly speaking and listening activities round out the curriculum.			

ENGLISH 10 HONORS	1083/1084	GRADE: 10	UC/CSU: "B"
The objective of English 10 Honors is to develop skills in reading comprehension, composition, and oral communication. The course exposes Cadets to all forms of literature, including short stories, nonfiction, poetry, drama, and novels. Cadets learn how to read actively in order to improve comprehension and retention of their readings. To prepare for the written portion of the SAT test, students learn the strategies of rhetorical analysis, focusing specifically on what an author does to build an argument. They will formulate their own arguments, making claims, selecting evidence, and explaining their reasoning. Writing will be taught as a process, focusing specifically on both the idea-generating and proofreading stages. Weekly speaking and listening activities round out the curriculum.			

ENGLISH 11	1091/1092	GRADE: 11	UC/CSU: "B"
English 11 builds on skills from English 10, providing a comprehensive study of literature from diverse sources. Cadets read various literary works and focus on argumentation, using specific examples and evidence in well-developed essays. The course encourages critical thinking, enabling Cadets to form educated opinions and engage in in-class discussions, while advanced courses offer a more challenging academic opportunity for those seeking it.			

ENGLISH 11 HONORS	1101/1102	GRADE: 11	UC/CSU: "B"
The objective of English 11 is to further the skills developed through English 10 and to provide Cadets an overview of American literature, examining the human experience through the lens of various, diverse texts. Cadets will read a variety of essays, short stories, poems, and novels from the American literary canon. Writing skills will focus on argumentation and the necessary use of specific examples and evidence embedded within the content of any well-developed essay. To better prepare the Cadets for the essay portion of the SAT test, there will be a shift from literary to rhetorical analysis. Specifically, Cadets will examine how writers craft their text intentionally to influence the audience's thinking. Targeted critical thinking skills encourage Cadets to form educated, individual opinions on the assigned subject matter while taking an active part in-class discussion.			
ENGLISH 12	**1111/1112**	**GRADE: 12**	**UC/CSU: "B"**
English 12 continues to build on skills from previous English courses, preparing students for college-level English classes without the need for remediation. Students explore literature from various eras and practice diverse types of composition, moving beyond the traditional essay structure and learning to distinguish between opinion and fact. They are encouraged to develop educated, individual opinions and actively participate in class discussions.			

AP ENGLISH LANGUAGE & COMPOSITION	1311/1312	GRADE: 12	UC/CSU: "B"
The goal of AP English Language and Composition is to enhance the writing and critical reading abilities of high-achieving students through in-depth exploration of non-fiction, writing exercises, and formal assignments. Students learn to analyze how writers adapt their style and make strategic choices based on the rhetorical situation, focusing on claims, evidence, and responses to opposing viewpoints. This course serves as a college-level writing and rhetoric course, offering comprehensive preparation for the AP Language and Composition exam, with a greater emphasis on reading, writing, and critical thinking compared to English 12.			
Advanced ESOL B/C - English for Speakers of Other Languages	**1521/1522 1531/1532**	**GRADE: 9-12**	**UC/CSU: "B"**
This literature course focuses on improving students' English language skills, with an emphasis on active reading strategies and academic language proficiency. It helps students transition into mainstream English and can fulfill an English curriculum requirement or support their core courses.			

ESOL SUPPORT	1541/1542	GRADE: 9-12	NONE UC/CSU COURSE
The Advanced ESOL Support program enhances advanced English reading and writing skills, providing personalized support for academic success in core classes. It serves as a bridge to academic achievement for English learners, empowering them to become proficient English speakers and writers with a strong academic vocabulary.			

MATHEMATHICS - UC/CSU “C”

PRE-ALGEBRA	3031/3032	GRADE: 7-10	UC/CSU: "C"
Pre-Algebra is designed to develop an introductory understanding of Algebra and Geometry. It will also provide a smooth transition in mathematics from concrete experiences to more abstract experiences using multiple modes of learning.			

ALGEBRA 1	3041/3042	GRADE: 7-12	UC/CSU: "C"
The objective of Algebra 1 is to reinforce the skills developed in pre-algebra: relating addition, subtraction, multiplication, and division of facts with positive and negative numbers; manipulating, complex algebraic expressions, solving and graphing problems using linear, quadratic, and equation systems; and introducing the use of functional notations.			

GEOMETRY	3051/3052	GRADE: 7-12	UC/CSU: "C"
The objective of Geometry is to improve on the skills developed in algebra: manipulating, complex algebraic expressions; solving and graphing problems using linear, quadratic, and equation systems; and introducing geometric terms and ideas; points, lines, angles, reasoning, congruent and similar triangles, polygons, transformations, circles, planar and space measurements.			

GEOMETRY ADVANCE	3211/3212	GRADE: 9-12	UC/CSU: "C"
Dive into the world of shapes, sizes, and spatial relationships with our Introduction to Geometry course. This foundational course is designed for students to develop a solid understanding of geometric principles and their practical applications. Through a combination of theoretical concepts and hands-on activities, students will explore fundamental topics including: 2 dimensional and 3 dimensional shapes, the difference between congruence and similarity and how to prove ideas are true mathematically.By the end of this course, students will have a strong grasp of geometric concepts and problem-solving skills that are essential for higher-level mathematics and real-life scenarios. This course is ideal for those seeking to build a robust foundation in geometry, whether for academic progression or personal enrichment.			

ALGEBRA 2	3071/3072	GRADE: 9-12	UC/CSU: "C"
Algebra 2 will expand upon the mathematical concepts of Algebra I and Geometry. Emphasis will be placed on abstract thinking skills, the function concept, and the algebraic solutions of problems in various content areas. Content areas include, but are not limited to, linear relationships, matrices, quadratic equations, exponents and logarithms, trigonometry functions, the binomial theorem and series, combinations, and statistics. Calculators and/or computers will be used to aid in the solution of problems.			

ALGEBRA 2 HONORS	3081/3082	GRADE: 9-12	UC/CSU: "C"
Algebra 2 Honors will expand upon the mathematical concepts of Algebra I and Geometry. Emphasis will be placed on abstract thinking skills, the function concept, and the algebraic solutions of problems in various content areas. Content areas include, but are not limited to, linear relationships, matrices, quadratic equations, exponents and logarithms, trigonometry functions, the binomial theorem and series, combinations, and statistics. Calculators and/or computers will be used to aid in the solution of problems.			

ADVANCED MATH TOPICS	3341/3342	GRADE: 9-12	UC/CSU: "C"
Advanced Math Topics is designed for the student who has taken and passed Algebra 2. Students will develop logical thinking and will become familiar with the fundamentals of Pre-Calculus through the use of the textbook, online resources, graphing calculators, and other technologies. At the completion of the course, students will be ready to enroll in pre-calculus. In addition, the course will prepare students for college-level mathematics and post-secondary entrance exams, such as the SAT Math Section, the ACT Math Section and the SAT Math Subject tests.			

PRE-CALCULUS HONORS	3181/3182	GRADE: 9-12	UC/CSU: "C"
This course is an extension of Algebra II with emphasis on Trigonometric concepts and introductory Calculus topics. The first part of the course covers different types of mathematical functions (polynomial, rational, exponential, and logarithmic) and their graphs. Next, an in-depth study of Trigonometry and its applications will be studied. Finally, an introduction to Calculus topics (limits, derivatives, and integrals) will be reviewed.			

AP CALCULUS AB	3271/3272	GRADE: 9-12	UC/CSU: "C"
This course aims to prepare students to take the AP Calculus AB test. The class will cover the topics of one semester of college calculus. Students will approach problems from a numeric, graphic, and algebraic method.			

AP CALCULUS BC	3161/3162	GRADE: 9-12	UC/CSU: "C"
This course aims to prepare students to take the AP Calculus BC test. The class will cover the topics of two semesters of college calculus. Students will approach problems from a numeric, graphic, and algebraic method.			

COLLEGE ALGEBRA	3151/3152	GRADE: 12	UC/CSU: "C"
This College Algebra/ Financial Literacy course is to help students acquire a solid foundation in the skills and concepts of algebra and Financial Literacy. In the first semester students will learn how algebra can model and solve authentic real world problems. In the second semester students will learn all of the essential personal finance topics necessary to become a financially capable student. Topics include banking, credit, budgeting, investing, career planning, and more.			

STATISTICS	3241/3242	GRADE: 12	UC/CSU: "C"
Statistics is an Algebra-based (“seniors only”) course that includes concepts taken from topics which include descriptive statistics, measures of central tendency and dispersion, probability, probability distributions, relative frequency distributions, sampling distributions, binomial distribution, normal distribution, the student's t distribution, the Chi- square distribution, estimation using confidence intervals, hypothesis testing, linear regression, correlation, and nonparametric statistics.			

SCIENCE - UC/CSU “D”

BIOLOGY	3241/3242	GRADE: 9	UC/CSU: "D"
Biology will provide a meaningful laboratory-based science course that develops the cadet’s ability to analyze and synthesize scientific information. The major focus centers on cellular functions & metabolism, human physiology, genetics, evolution, plant classification and structure. Cadets develop an appreciation of living organisms and the environment that supports their existence. Finally, the cadets will be encouraged to assess their attitudes and behavior patterns and to understand the impact their lifestyle choices have on their communities and on their own well-being.			

AP BIOLOGY	3241/3242	GRADE: 12	UC/CSU: "D"
Prerequisite: An “A” in Biology or a “B” with instructor approval; concurrent enrollment in or successful completion of Chemistry.			
The AP Biology course is the equivalent of a college-level introductory biology course usually taken by biology majors during their first year. This course follows the College Board standards and laboratory guidelines for AP Biology. The course covers the 8 major themes identified by the College Board: Science as a process, evolution, energy transfer, continuity vs. change, correlation of structure and function, regulation, interdependence in nature, and science, technology and society. This course differs from regular biology with respect to the pace, range, and depth of topics covered. This course requires a strong work ethic. Work is more intensive, including labs, and requires out of class time be spent during tutorials, evenings and possibly weekends. All cadets are expected to take the AP exam in May.			

CHEMISTRY	3241/3242	GRADE: 10	UC/CSU: "D"
Chemistry will provide a study of properties and transformation of matter under normal conditions where molecules dominate. Cadets taking this course will learn methods used by scientists, compositions of matter, chemical symbols, chemical reactions, physical and chemical properties of matter, stoichiometry, atomic and electronic structures, chemical bonding, the states of matter, acids and bases, and reactions in solutions. Cadets will learn to do calculations associated with chemical reactions. Cadets will also be given a brief introduction to equilibrium and oxidation-reduction reactions.			

AP CHEMISTRY	3241/3242	GRADE: 11-12	UC/CSU: "D"
Prerequisite: An “A” in Chemistry or a “B” with instructor approval; successful completion of Algebra 2.			
The AP Chemistry course provides students with college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations. All cadets in this course will be expected to take the AP Exam administered at the end of the year.			

PHYSICS	3241/3242	GRADE: 11	UC/CSU: "D"
Pre-Algebra is designed to develop an introductory understanding of Algebra and Geometry. It will also provide a smooth transition in mathematics from concrete experiences to more abstract experiences using multiple modes of learning.			

AP PHYSICS 1	5221/5222	GRADE: 11-12	UC/CSU: "D"
Prerequisite: Successful completion of or concurrent enrollment in Pre-Calculus with instructor approval.			
AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics by developing models of physical phenomena through inquiry-based investigations. Students build their understanding of physical models as they explore and solve problems in these content areas: Kinematics, Forces and Translational Dynamics, Work, Energy, and Power, Linear Momentum, Torque and Rotational Dynamics, Energy and Momentum of Rotating Systems, Oscillations, Fluids. AP Physics 1 is equivalent to the first course in introductory college course sequence in algebra-based physics.			

AP PHYSICS 2	5251/5252	GRADE: 11-12	UC/CSU: "D"
Prerequisite: AP Physics 1 & Precalculus			
In AP Physics 2: Algebra-Based, you'll learn about thermodynamics, electricity and magnetics, and quantum, atomic, and nuclear physics. While learning about the key course concepts, you'll do hands-on laboratory work to investigate specific phenomena. Skills that you will learn through this course are "Creating representations that depict physical phenomena", "Conducting analyses to derive, calculate, estimate, or predict", and lastly "Describing experimental procedures, analyzing data, and supporting claims".			
AP ENVIRONMENTAL SCIENCE	**5121/5122**	**GRADE: 10-12**	**UC/CSU: "D"**
Prerequisite: An "A" in Biology or a "B" with instructor approval.			
The AP Environmental Science course is designed to engage students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. All Cadets are required to take the AP exam in May.			

LANGUAGE OTHER THAN ENGLISH - UC/CSU “E”

SPANISH 1	2011/2012	GRADE: 9	UC/CSU: "E"
This introductory course is designed to provide a solid foundation in Spanish through engaging and interactive lessons. Students will learn essential vocabulary and grammar, develop listening and speaking skills, and gain confidence in their ability to communicate in Spanish. Throughout the course, students will explore topics such as greetings, introductions, family, daily routines, and cultural traditions from various Spanish-speaking countries. Interactive activities, multimedia resources, and real-life scenarios will help students practice their skills in a meaningful context.			

SPANISH 2	2021/2022	GRADE: 10	UC/CSU: "E"
Building on the foundation established in Spanish 1, this course will deepen your understanding of the Spanish language and enhance your ability to communicate with confidence. This course emphasizes expanding vocabulary, mastering more complex grammatical structures, and improving both written and spoken proficiency. Emphasis will also be placed on exploring cultural practices and traditions from Spanish-speaking countries to enrich your language learning experience.			

SPANISH 3 HONORS	2141/2142	GRADE: 11	UC/CSU: "E"
Spanish 3 Honors is designed for students who have a solid foundation in Spanish and are eager to advance their language skills to a higher level. We will build upon the knowledge acquired in Spanish 1 and 2, emphasizing both the complexity of language and the depth of cultural understanding. Students will explore advanced grammatical concepts, engage in detailed readings, sophisticated writing exercises, and dynamic conversations that challenge their proficiency and enhance their fluency.			

AP SPANISH LANGUAGE AND CULTURE	2131/2132	GRADE: 12	UC/CSU: "E"
This advanced course is designed for high school students seeking to deepen their understanding of the Spanish-speaking world and excel on the AP exam. Through rigorous and engaging coursework, students will develop their proficiency in Spanish while exploring a range of cultural themes and communication modes. The course follows the guidelines of the College Board AP Spanish Language and Culture course and provides the opportunities for students to demonstrate their proficiency in all four modes- reading, writing, speaking, and listening			

CHINESE 1	2311/2312	GRADE: 9	UC/CSU: "E"
Chinese 1 is an introductory course for beginning Chinese learners. It is designed in accordance with UC requirements. It teaches Modern Standard Chinese, which is called Mandarin by Westerners, and simplified Chinese Characters which are used in Mainland China. Students will start by learning Pinyin (Chinese Romanization system) followed by developing basic daily communication skills of speaking, listening, reading, and writing.			

CHINESE 2	2321/2322	GRADE: 10	UC/CSU: "E"
Chinese II is a year-long college preparatory course and picks up where Mandarin I leaves the previous year. Students will further their training in basic communication skills such as listening, speaking, reading and writing. They will expand their vocabulary used in daily life, will learn more commonly used expressions and more complicated sentence structures. Students will have more Pinyin practices, which will help improve their pronunciation. Chinese culture will continue to be included throughout the year in bits and pieces during daily lessons. On relevant Chinese holidays or special occasions, cultural activities will be incorporated as well. This course is designed to meet the standards in communication, connections, culture, comparisons and communities, established by the American Council on Teaching of Foreign Language.			

CHINESE 3	2331/2332	GRADE: 11	UC/CSU: "E"
Chinese III is a year-long college preparatory course and a continuation of Mandarin II. Students will further their training in basic communication skills such as listening, speaking, reading and writing. They will expand their vocabulary used in daily life, will learn more commonly used expressions and more complex sentence structures. Students will continue Pinyin practices, which will help improve their pronunciation. Chinese culture is a large part of the curriculum, thus it will be included throughout the year in bits and pieces during daily lessons. On relevant Chinese holidays or special occasions, cultural activities will be incorporated as well. This course is designed to meet the standards in communication, connections, culture, comparisons, and communities, established by the American Council on Teaching of Foreign Language.			
AP CHINESE LANGUAGE AND CULTURE	**235**	**GRADE: 12**	**UC/CSU: "E"**
AP Chinese offers a structured and immersive approach to learning Mandarin Chinese, combining language skills with cultural understanding. The course is designed for learners of various levels, from beginner to advanced. It emphasizes the development of proficiency in the four key areas: speaking, listening, reading, and writing.This course prepares students to take the AP Chinese Language and Culture Exam, which assesses their proficiency in various aspects of the language and their understanding of cultural contexts.			

VISUAL & PERFORMING ARTS - UC/CSU “F”

ART	7161/7162	GRADE: 9-12	UC/CSU: "F"
High School Art will have the Cadet develop creative artistic work through a variety of materials while learning art making techniques. Cadets will learn about the lives of artists of historical periods and how their art has influenced and inspired the artists of future periods. For each unit studied, students will create an art work of their own, using various mediums such as drawing, collage, painting, printmaking and sculpture. Students will learn critique skills to provide constructive feedback using appropriate art vocabulary and critical thinking of their own work, as well as their peers. Students will produce a year-long portfolio of their artwork to take home at the end of the school year.			

DIGITAL PHOTOGRAPHY & PHOTOSHOP	7341/7342	GRADE: 9-12	UC/CSU: "F"
This course introduces High School Cadets to the art and science of digital photography, exploring the camera as a tool for artistic expression and communication. Cadets will learn about camera operation, composition, lighting, photo editing software (Adobe Lightroom and Adobe Photoshop), and the history and ethics of photography. Through engaging hands-on projects and practical assignments, they will develop their creative eye and technical skills, exploring how to tell compelling stories through photographs. Cadets will also have the opportunity to collaborate with peers, reflect on their work, and appreciate photography from diverse perspectives.			

BAND	7141/71/42	GRADE: 9-12	UC/CSU: "F"
High School Band (Intermediate/Beginning) High School Band is for cadets with little or no experience performing on a band instrument. These cadets learn to perform on band instruments from the beginner level, perform in military ceremonies and other parades with the ADVANCED BAND, as well as independently.			

ADVANCED MARCHING BAND	7011/7012	GRADE: 9-12	UC/CSU: "F"
HIGH SCHOOL BAND (ADVANCED) Advanced Marching and Concert Band is for cadets who have previous performing experience. This ensemble performs as a marching and concert band for military ceremonies and street parades in combination with High School Band. They also perform concerts independently and in combination with the other bands, as well as for selected sporting events (football, basketball).			

VIDEO PRODUCTION	7231/7232	GRADE: 9-12	UC/CSU: "F"
The Video Production course focuses on developing students’ knowledge and skills involved in producing news segments for their school wide audience. Students learn about journalism, the different roles and responsibilities involved in producing tv programs, including scriptwriting, camera operation, editing, and hosting. The students will also study the technical aspects of broadcasting, such as sound and lighting techniques, as well as the ethical considerations and legal regulations associated with media production. Overall, this course aims to provide students with a comprehensive understanding of the media industry and prepare them for potential careers in broadcasting or related fields.			

INTRODUCTION TO INSTRUMENTAL MUSIC	7145/7146	GRADE: 9-12	UC/CSU: "F"
This course is designed to provide the student with the regular and rigorous musical instruction and applied practice on a musical instrument. Students will discover the importance of music on a personal level as well as in multiple social, cultural, and historical contexts. As students refine their musical skills and learn discipline through regular practice and goal-setting, they will have the opportunity to apply their knowledge as they attend a live performance and provide feedback about that performance to the class bringing up topics we spoke of in class. Ultimately, students participating in this course will experience the ways in which music can be a powerful tool for communication in various formats and from multiple points of view.			
CULINARY 1	**8493/8494**	**GRADE: 9-12**	**UC/CSU: "F"**
In this course students will learn to present, package and market food using elements of design and focusing on the visual aspect of Culinary Arts. Students will create their own unique recipes, learn food styling techniques and learn the basics of food photography. Event planning will be an ongoing focus of this course. Students will experience a wide range of creative tasks, required in producing real events and have the opportunity as a team to analyze and critique their options. This course will allow students the opportunity to be creative and expressive through food with the goal of building a life-long passion for the “Art” of Culinary Arts.			

COLLEGE PREP ELECTIVES/ELECTIVES - UC/CSU “G”

INTRO TO COMPUTER SCIENCE: MAKER	8411	GRADE: 9-12	UC/CSU: "G"
High School Art will have the Cadet develop creative artistic work through a variety of materials and techniques. Cadets will be introduced to Art History and the artistic concepts of line, color, space, form, shape, and texture. There will be a range of 2-D and 3-D work taught including painting, drawing, collage, and sculpture. Students will learn critique skills to provide constructive feedback using appropriate art vocabulary and critical thinking of their own work, as well as their peers. Students will produce a year-long portfolio of their artwork to take home at the end of the school year.			
INTRO TO COMPUTER SCIENCE: GAME DEVELOPMENT	**8522**	**GRADE: 9-12**	**UC/CSU: "G"**
In this digital photography class, High School cadets will dive into the art and science of capturing images with modern technology, while also learning the historical and sociological significance of the subject. Cadets will master the variety of settings using a DSLR digital camera, understand and apply principles of composition such as rule of thirds and leading lines, and utilize different lighting techniques to enhance their images. Through engaging hands-on projects and practical assignments, they will develop their creative eye and technical skills, exploring how to tell compelling stories through photographs. Basic editing software skills will be taught (Adobe Lightroom and Adobe Photoshop).			

AP COMPUTER SCIENCE PRINCIPLES	8331/8332	GRADE: 9-12	UC/CSU: "G"
Prerequisite: 2 semesters of ANA Intro to CS with a B or above, and instructor approval			
An year-long introductory CS course exploring programming, the modern internet, and the use of technology in our society. It is equivalent to a college level introduction to CS, for non-CS majors. We will spend most of the year programming in Java Script using the Code.org App Lab tool, but may occasionally branch off into Google Apps Script, Python, Cybersecurity, Data Structures, and the Linux Operating System. (Pre-req: 2 semesters of ANA Intro to CS with a B or above, and instructor approval)			
AP COMPUTER SCIENCE A	**8321/8322**	**GRADE: 9-12**	**UC/CSU: "G"**
Prerequisite: 2 semesters of ANA Intro to CS with a B or above, and instructor approval			
In this digital photography class, High School cadets will dive into the art and science of capturing images with modern technology, while also learning the historical and sociological significance of the subject. Cadets will master the variety of settings using a DSLR digital camera, understand and apply principles of composition such as rule of thirds and leading lines, and utilize different lighting techniques to enhance their images. Through engaging hands-on projects and practical assignments, they will develop their creative eye and technical skills, exploring how to tell compelling stories through photographs. Basic editing software skills will be taught (Adobe Lightroom and Adobe Photoshop).			

AP PSYCHOLOGY	4131/4132	GRADE: 11-12	UC/CSU: "G"

AP Psychology is an introductory college-level course in psychology (one semester).
Students will examine psychological concepts and theories, and then apply them to real-life scenarios. At the same time, they will be learning how to understand and interpret data within the field of psychology. Students will also learn the scientific study of behavior methods and gain an understanding of human mental processes. Throughout the year, students will examine the concepts of psychology through readings and discussion, as well as analyze data from psychological research studies.

CURRENT EVENTS	4191/4192	GRADE: 10-12	UC/CSU: "G"

Welcome to Current Events, a course designed to immerse cadets in the dynamic world of contemporary global and local affairs. This class will provide cadets with the tools and knowledge needed to understand and critically evaluate the world's most pressing issues. Through a blend of discussions, multimedia analysis, and interactive projects, cadets will explore how current events shape societies and influence our daily lives.

INTRO TO BUSINESS	8721	GRADE: 9-12	UC/CSU: "G"

This course introduces the trends and opportunities in today's dynamic business environment as they relate to economics, global markets, ethics and social responsibility, business ownership forms, entrepreneurship, management responsibility, human resources management, marketing, operations, accounting, and financial management. Students gain important business context and discover business career and educational opportunities.

BUSINESS ENTREPRENEURSHIP	8702	GRADE: 9-12	UC/CSU: "G"

In this business start-up and management course, students learn about conducting preliminary research, analyzing trends and competition, buying and starting a business or franchise, developing a business plan, considering legal issues, target marketing, accounting, managing personnel, and responsible business practices.

ROBOTICS 1	8741/8742	GRADE: 9-12	UC/CSU: "G"

Robotics 1 is a full-year, project-based course that introduces students to the fundamentals of robotics using the updated VEX V5 curriculum. Through hands-on builds, structured engineering challenges, and collaborative teamwork, students explore the essential components of mechanical design, programming, and real-world problem-solving. The course emphasizes safe lab practices, engineering roles, and technical documentation using an engineering notebook. As students progress, they engage in increasingly complex design tasks that integrate sensors, autonomous programming, and controller-based systems. This course draws from the approved EDR VEX Robotics framework but has been restructured to align with updated pacing, tools, and priorities from the newly released VEX V5 STEM Labs. The unit sequence and instructional design reflect current best practices in robotics education, integrating the latest VEX technology to guide students through system exploration, iterative design, and applied robotics applications.

ROBOTICS 2 HONORS	8901/8902	GRADE: 10-12	UC/CSU: "G"

In this project-based course, students will compete in a VEX V5 robotics season. In each season of robotics competition, VEX establishes new rules and challenges. Students will engage in a variety of project management, engineering design, and optimization tasks. Students will gather requirements from the competition rulebook and from other constraints and will work to design a system capable of excelling in that year's competition. They will choose organizational structures, conflict resolution practices, and evaluation processes that ensure that all members of the robotics team are able to effectively contribute and that all requirements are met. Through outreach activities and presentations to judging panels at competitions, they will become experienced in communicating engineering information to audiences of various types. They will have additional responsibility relating to tracking tasks, measuring performance, and will be expected to spend significant time outside of school on design and implementation tasks. Introduction and Competition Format In the time before the annual challenge is released, students will study the competition rulebook and become familiar with requirements that all robots and teams must meet, as well as some of the metrics by which they will be judged during competition. They will research organization methodologies and software tools used by engineering teams (including computer aided design tools, work management systems, and revision control systems) and collaboratively make choices that will guide the rest of their system. They will also establish scheduling systems and metrics by which their further efforts can be evaluated. Overall, students will be expected to begin to frame problems in diverse areas (mechanical design and software, but also fiscal budgets and schedules) in terms of requirements, propose solutions, objectively measure the quality of solutions, and iterate until an acceptable compromise is reached.

SPORTS MEDICINE	5261/5262	GRADE: 9-12	UC/CSU: "G"

The Sports Medicine class is a one (1) semester CTE course designed for students who are interested in fields such as athletic training, physical therapy, medicine, nursing, fitness, exercise physiology, kinesiology, EMT/paramedic, and other sports medicine related fields. It is offered as a classroom and lab course that will require students to complete a combination of class work and hands-on application.

YEARBOOK	8051/8052	GRADE: 9-12	UC/CSU: "G"

The Yearbook class offers High School Cadets the opportunity to document and celebrate the school year through the creation of the school's yearbook. The course covers key aspects such as organizing content, writing engaging copy, and using design software to produce visually appealing pages. Students will gain practical skills in reporting, interviewing, writing, visual communication, layout design, photography, marketing, and project management to ensure a cohesive and memorable yearbook. Emphasis will be placed on teamwork and meeting deadlines to produce a high-quality yearbook that reflects the spirit of the school year.

CYBERSECURITY	8591/8592	GRADE: 9-12	UC/CSU: "G"

This course will be broken into two semesters focusing on Cybersecurity (First Semester) and Network Configuration (Second Semester). The first semester of Cybersecurity, this course is designed to prepare high school students for the CompTIA Security+ certification, a leading industry standard that validates essential cybersecurity knowledge and skills. Students will explore the five core domains of the Security+ exam: Attacks, Threats, and Vulnerabilities; Architecture and Design; Implementation; Operations and Incident Response; and Governance, Risk, and Compliance. Through interactive lessons, hands-on labs, and real-world scenarios, learners will understand how to identify security threats, secure networks and systems, and respond to incidents effectively. Earning the Security+ certification opens doors to entry-level cybersecurity roles and demonstrates a solid foundation in protecting digital environments, making it a valuable credential for students interested in technology and national security. In the second semester, Protecting your Network, students will build on the knowledge gained from the CompTIA Security+ curriculum by applying key cybersecurity principles to real-world computer and network configurations. Using hands-on Cisco labs, students will learn how to set up, secure, and troubleshoot routers, switches, and network devices. The course emphasizes practical implementation of security measures such as access control, VLANs, firewalls, and secure protocols, giving students essential skills in protecting and maintaining network infrastructure. By combining theoretical knowledge with hands-on experience, students will develop the confidence and technical ability needed to pursue careers in IT, networking, or cybersecurity.

LEARNING STRATEGIES	8041/8042	GRADE: 9-12	NON-UC/CSU:

This course is designed to equip cadets with the strategies and skills necessary to succeed in the rigorous academic curriculum at the Academy. Focusing on three key areas—executive functioning skills, effective note-taking and test-taking strategies, and social-emotional development—this course provides cadets with the tools to overcome academic challenges and develop strong work habits.

ACADEMIC EXCELLENCE	8121/8122	GRADE: 9-12	NON-UC/CSU:

The Academic Excellence course is designed to equip cadets with the foundational skills needed for sustained academic success and personal growth. Through targeted instruction in study strategies, time management, goal-setting, and critical thinking, cadets develop the tools necessary to approach their education with confidence and independence.

AVIATION COURSES

AVIATION 1	8631/8632	GRADE: 9-12	UC/CSU: "G"
This two semester Elective Course provides a broad introduction to the Aviation topics by educating the Cadet about aviation career opportunities, important dates in aviation history, and the government's role in aviation. Topics covered will include aviation history, fundamentals of unmanned aircraft systems, rapid developments in powered flight, space travel, and the future of aviation and aerospace. The course is designed to stimulate and excite Cadets to enter the aviation industry through further collegiate-level study that could lead to many specific career pathways, including aerospace engineering, safety and airport management, General Aviation pilot, and Commercial Airline pilot.			

AVIATION 3	8651/8652	GRADE: 11-12	UC/CSU: “G”
This one semester Elective Course will introduce the Cadets to aerodynamic theory, programming and manufacturing principles necessary to safely operate modern propeller-driven drones. They will build and program their own UAV and learn how to analyze data collection to improve efficiency in areas such as law enforcement, agriculture, search and rescue, photography, and cinematography. Students may earn a Certificate of Proficiency upon completion and will be eligible upon completion for the FAA Part 107 Remote Pilot’s Licence (must be 16 yrs old).			

AVIATION 4	8591/8592	GRADE: 11-12	UC/CSU: "G"
This two semester Science Elective provides specific education and skills to assist Cadets in earning their FAA Private Pilot Certification. Topics covered will include Aerodynamics, Aircraft Systems, National Airspace System, Aeronautical Decision Making, Weather, and Cross-Country flight planning. The course will prepare each Cadet to excel in practical flight training and to pass the FAA Knowledge Exam.			

AA GROUND SCHOOL	8041/8042	GRADE: 9	UC/CSU: “G”
This two semester Science Elective provides specific education and skills to assist Cadets in earning their FAA Private Pilot Certification. Topics covered will include Aerodynamics, Aircraft Systems, National Airspace System, Aeronautical Decision Making, Weather, and Cross-Country flight planning. The course will prepare each Cadet to excel in practical flight training and to pass the FAA Knowledge Exam.			

LEADERSHIP EDUCATION TRAINING (LET)

LET 1	6101/6102	GRADE: 9	UC/CSU: "G"

“(The) purpose of Junior Reserve Officers’ Training Corps [is] to instill in students in United States secondary educational institutions the value of citizenship, service to the United States, personal responsibility, and a sense of accomplishment.” (10 USC Sec 2031). The program's focus is reflected in its mission statement, To Motivate Young People to be Better Citizens. "It is a purpose of the Junior Reserve Officer's Training Corps to instill in students in United States secondary educational institutions the values of citizenship, service to the United States, and personal responsibility and a sense of accomplishment." (USC Title 10) The program is a stimulus for promoting graduation from high school, and it provides instruction and rewarding opportunities that will benefit the student, community, and nation. The objectives of AJROTC are to educate and train high school cadets in citizenship, promote community service, instill responsibility, character, and self-discipline, and provide instruction in leadership theory and application. The AJROTC program is grounded in the core values of Loyalty, Duty, Respect, Selfless Service, Honor, Integrity, and Personal Courage. In order to fulfill these goals, JROTC strives to prepare students for college eligibility. Main components of the program are academic instruction, leadership laboratory, tutorial support, and motivational co-curricular activities. The first year activities focus on self awareness, sharpening communication skills, conflict resolution, defining leadership in action and demonstrating Army customs and courtesies.This is the first of four core courses in the Army Junior Reserve Officers’ Training Corps (JROTC) high school program. Because the central focus of the AJROTC program is to help develop strong leaders and model citizens, first year students are introduced to content that will help the inner leader begin to emerge.

LET 2	6111/6112	GRADE: 10	UC/CSU: "G"

The purpose of Junior Reserve Officers’ Training Corps [is] to instill in students in United States secondary educational institutions the value of citizenship, service to the United States, personal responsibility, and a sense of accomplishment.” (10 USC Sec 2031). The program's focus is reflected in its mission statement, To Motivate Young People to be Better Citizens. "It is a purpose of the Junior Reserve Officer's Training Corps to instill in students in United States secondary educational institutions the values of citizenship, service to the United States, and personal responsibility and a sense of accomplishment." (USC Title 10) The program is a stimulus for promoting graduation from high school, and it provides instruction and rewarding opportunities that will benefit the student, community, and nation. The objectives of AJROTC are to educate and train high school cadets in citizenship, promote community service, instill responsibility, character, and self-discipline, and provide instruction in leadership theory and application. The AJROTC program is grounded in the core values of Loyalty, Duty, Respect, Selfless Service, Honor, Integrity, and Personal Courage. Leadership Education and Training (LET) 2 – The Developing Leader is designed for second year JROTC students and builds upon the mastery of LET 1 skills and abilities, providing Cadets with new and more challenging opportunities in leadership development.

LET 3	6121/6122	GRADE: 11	UC/CSU: "G"
The purpose of Junior Reserve Officers' Training Corps is to instill in students in United States secondary educational institutions the value of citizenship, service to the United States, personal responsibility, and a sense of accomplishment." (10 USC Sec 2031). The program's focus is reflected in its mission statement, To Motivate Young People to be Better Citizens. "It is a purpose of the Junior Reserve Officer's Training Corps to instill in students in United States secondary educational institutions the values of citizenship, service to the United States, and personal responsibility and a sense of accomplishment." (USC Title 10) The program is a stimulus for promoting graduation from high school, and it provides instruction and rewarding opportunities that will benefit the student, community, and nation. The objectives of AJROTC are to educate and train high school cadets in citizenship, promote community service, instill responsibility, character, and self-discipline, and provide instruction in leadership theory and application. The AJROTC program is grounded in the core values of Loyalty, Duty, Respect, Selfless Service, Honor, Integrity, and Personal Courage. Leadership Education and Training (LET) 3 - The Supervising Leader builds upon the mastery of LET 1 and 2 skills and abilities, providing Cadets with new and more challenging opportunities as a leader by overseeing planning, project implementation, and team members. Cadets at this level can acquire battalion staff positions and responsibilities and help integrate improvements in the local JROTC program and community.			

LET 4	6131/6132	GRADE: 12	UC/CSU: "G"
The purpose of Junior Reserve Officers' Training Corps [is] to instill in students in United States secondary educational institutions the value of citizenship, service to the United States, personal responsibility, and a sense of accomplishment." (10 USC Sec 2031). The program's focus is reflected in its mission statement, To Motivate Young People to be Better Citizens. "It is a purpose of the Junior Reserve Officer's Training Corps to instill in students in United States secondary educational institutions the values of citizenship, service to the United States, and personal responsibility and a sense of accomplishment." (USC Title 10) The program is a stimulus for promoting graduation from high school, and it provides instruction and rewarding opportunities that will benefit the student, community, and nation. The objectives of AJROTC are to educate and train high school cadets in citizenship, promote community service, instill responsibility, character, and self-discipline, and provide instruction in leadership theory and application. The AJROTC program is grounded in the core values of Loyalty, Duty, Respect, Selfless Service, Honor, Integrity, and Personal Courage. Leadership Education and Training (LET) 4 - The Managing Leader provides Cadets multiple opportunities to manage and lead in the battalion, in school, and their respective communities The LET 4 Cadet is ready to assume responsibilities and manage him or herself and others whom they work with or oversee as a Cadet manager.			

LET 4 HONORS	6131/6132	GRADE: 12	UC/CSU: "G"
The purpose of Junior Reserve Officers' Training Corps [is] "to instill in students in United States secondary educational institutions the value of citizenship, service to the United States, personal responsibility, and a sense of accomplishment." (10 USC Sec 2031). The program's focus is reflected in its mission statement: To Motivate Young People to be Better Citizens. It is a purpose of the Junior Reserve Officers' Training Corps to instill in students the values of citizenship, service to the United States, and personal responsibility, and a sense of accomplishment. (USC Title 10). The AJROTC program serves as a powerful stimulus for promoting high school graduation while providing instruction and rewarding opportunities that benefit the student, the community, and the nation. The objectives of AJROTC are to educate and train high school cadets in citizenship, promote community service, instill responsibility, character, and self-discipline, and provide instruction in leadership theory and application. The program is grounded in the core values of Loyalty, Duty, Respect, Selfless Service, Honor, Integrity, and Personal Courage. Leadership Education and Training (LET) 4 – Honors: The Managing Leader is an honors-level course specifically designed for the top student leaders at the school. These Cadets are expected to demonstrate exceptional initiative, responsibility, and leadership potential. The LET 4 Honors Cadet is ready to assume advanced leadership roles, managing themselves and others within the battalion, school, and broader community. This course challenges Cadets to lead with integrity and influence positive change.			

MIDDLE SCHOOL COURSES/ELECTIVES

ENGLISH 7	1011/1012	GRADE: 7
English 7 will introduce the Cadets to the fundamentals of grammar, usage, mechanics, and the writing process. Reflective of the California standard in the instruction of written composition, the process writing paradigm of pre-write, draft, revise, edit and publish is reinforced and fully implemented. Cadets will study the techniques of informative, persuasive and creative writing, and demonstrate proficiency through written responses to literature and nonfiction texts. Cadets will learn to use academic language to express their ideas with maturity. Reading comprehension strategies will emphasize the identification and use of key plot elements, characterization, and story structure to enhance the comprehension process.		

ENGLISH 8	1031/1032	GRADE: 8
In English 8, we will build and refine fundamental 21st Century skills in grammar, reading, writing, and speaking. We will work with both classic and modern texts of many genres including novels, plays, poems, short stories, articles, autobiographies, speeches, and essays while also producing our own writing. Most of all, we will discover and cultivate the joy of reading, writing, and communicating effectively.		

Advanced ESOL A - English for Speakers of Other Languages	1511/1512	GRADE: 7-8
This literature course focuses on improving students' English language skills, with an emphasis on active reading strategies and academic language proficiency. It helps students transition into mainstream English and can fulfill an English curriculum requirement or support their core courses.		

GEOGRAPHY 7	4011/4012	GRADE: 7
The Geography 7 will provide a balanced introductory presentation of the physical and cultural aspects of the eight major cultural regions of the world: the United States and Canada, Latin America, Western Europe, Russia and Eastern Europe, the Middle East and North Africa, Sub-Saharan Africa, Southern and Eastern Asia, and the Pacific. In addition, this course will examine the political and societal developments of our current world with current events and promote critical thinking with inquiry based projects.		

HISTORY 8	4021/4022	GRADE: 8
History 8 will review critical events in U.S. history from the early Native American arrival to the present day. Cadets will become acquainted with the principles of democracy, will trace the westward expansion of the nation, will study the divergent development of different regions of the country, and will analyze the causes of the Civil War. Cadets will also examine the disappointments of Reconstruction in developing an America committed to racial equality, and will study the changing face of American foreign policy from Reconstruction through the Cold War. Connections between past and present are emphasized and daily current events, maps, and various projects are also utilized.		

LIFE SCIENCE 7	5031/5032	GRADE: 7
Life Science 7 will present a scientific study of the structure and function of living organisms and their ecological relationships. More specifically there will be an introduction to general scientific skills and their importance. In addition, the second semester will place an emphasis on heredity, evolution, ecosystems, and the environment. Finally, the key elements of health will be introduced and discussed.		

PHYSICAL SCIENCE 8	5231/5232	GRADE: 8
The Physical Science 8 will introduce the cadet to the interrelationship between physical and earth sciences. The topics include key elements of physical science: force and motion, magnetism, electricity, structure of matter, and density and buoyancy. It also includes a general introduction to Earth in the solar system, weather, geology, the periodic table, and the chemistry of living things. Investigation and experimentation are taught throughout the year through the many labs.		

MIDDLE SCHOOL JROTC 7	6071/6072	GRADE: 7
MS JROTC, focuses on instilling values and awareness of national history, chain of command, span of control, unity of command, future opportunities, and expectations for all cadets. We expand on the rich history of Army and Navy Academy while we teach our MS Cadets the essential trait of “followership.” Although this is entry level LET, the MS Cadets will learn discipline, responsibility, respect, and have fun in the process.		

MIDDLE SCHOOL JROTC 8	6081/6082	GRADE: 8
MS JROTC, focuses on instilling values and awareness of national history, chain of command, span of control, unity of command, future opportunities, and expectations for all cadets. We expand on the rich history of Army and Navy Academy while we teach our MS Cadets the essential trait of “followership.” Although this is entry level LET, the MS Cadets will learn discipline, responsibility, respect, and have fun in the process.		

MIDDLE SCHOOL LEARNING STRATEGIES	8561/8562	GRADE: 7-8
This course is designed to equip cadets with the strategies and skills necessary to succeed in the rigorous academic curriculum at the Academy. Focusing on three key areas—executive functioning skills, effective note-taking and test-taking strategies, and social-emotional development—this course provides cadets with the tools to overcome academic challenges and develop strong work habits.		

MIDDLE SCHOOL ART	7191/7192	GRADE: 7-8
This class provides a foundational exploration of artistic expression, where students will embark on a journey to discover their artistic abilities through a variety of materials and techniques. Throughout the course, students will explore the Elements of Art: line, shape, form, space, color, value, and texture. By experimenting with different mediums and techniques, students will develop their skills and gain confidence in their artistic abilities. The course emphasizes hands-on learning and encourages students to experiment, explore, and express their individuality. Students will also collaborate with peers, reflect on their work, and appreciate art from diverse perspectives. By the end of the course, students will have a solid understanding of basic art concepts and techniques, along with a portfolio showcasing their creative journey.		

MIDDLE SCHOOL BAND	7111/7112	GRADE: 7-8
This one-year course is designed for students who are interested in Beginning Band. The course involves applying both basic and intermediate fundamentals of music reading and the specific performance techniques of the instrument being studied. Instructional practices incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to society. The appropriate use of technology is an integral part of this course.		

MIDDLE SCHOOL COMPUTER SCIENCE	8341/8342	GRADE: 7-8

This hands-on, project-based course introduces middle school students to the exciting world of technology and digital creativity. Students will learn the fundamentals of web development by building their own websites using HTML, explore the basics of interactive programming with JavaScript, and dive into game development concepts to create simple, playable games. The course also includes an introduction to 3D design, where students will design models for 3D printing, and a beginner-friendly introduction to Python, one of the most widely used programming languages today. No prior coding experience is required—just curiosity and a willingness to explore. By the end of the course, students will have built a portfolio of projects that showcase their creativity, logic, and technical skills.

MIDDLE SCHOOL ROBOTICS	8911/8912	GRADE: 7-8

Robotics 1 is a full-year, hands-on course designed for middle school students interested in building, coding, and problem-solving through robotics. Using the updated VEX V5 system and curriculum, students will explore the foundations of robotics through fun, engaging projects that combine mechanical design, basic programming, and teamwork. Throughout the course, students will learn how to safely work in a lab setting, understand the roles within an engineering team, and document their progress using an engineering notebook. As they advance, students will tackle more challenging design tasks that introduce sensors, autonomous robot behavior, and controller-based navigation. The course is based on the approved VEX EDR Robotics framework but has been adapted specifically for middle school learners. Lessons are aligned with the latest VEX V5 STEM Labs and reflect current best practices in robotics education. Students will gain real-world STEM skills by working through the design process, testing their ideas, and improving their robots through iteration.

MIDDLE SCHOOL VIDEO PRODUCTION	7301/7302	GRADE: 7-8

In this fun and creative course, students will learn how to plan, film, and produce video news segments for their school community. Through hands-on projects, they'll explore the basics of journalism and the many roles that go into making a TV show—such as scriptwriting, camera operation, editing, directing, and hosting. Students will also be introduced to the technical side of video production, including sound, lighting, and video editing tools. Along the way, they'll learn about the responsibilities that come with working in media, including ethical choices and basic media laws. This course gives students a well-rounded look at how video and news content is created, while helping them build communication, collaboration, and creative skills that can be used in future media or broadcasting pathways.

MIDDLE SCHOOL AVIATION	8671/8672	GRADE: 7-8

This exciting, hands-on course introduces middle school students to the world of aviation and aerospace. Students will explore the science of flight, the history of aviation, and the basics of how aircraft and drones work. Through interactive lessons, flight simulators, and STEM-based activities, students will learn key concepts like lift, drag, thrust, and gravity—while also exploring aviation careers and real-world applications. Students will also get an introduction to flight planning, navigation, weather patterns, and basic aerodynamics. Using technology and model aircraft, they'll begin to understand how pilots, air traffic controllers, and aerospace engineers keep the skies safe and efficient.

PHYSICAL EDUCATION (PT)

PHYSICAL TRAINING	9051/9052	GRADE: 9-12
This high school Physical Education (PT) course emphasizes the development of physical fitness, mental discipline, and healthy lifestyle habits through structured physical training and team-based activities. Students will participate in a variety of workouts and sports designed to improve cardiovascular endurance, muscular strength, flexibility, agility, and overall athletic performance. The course includes strength and conditioning circuits, functional fitness, sport-specific drills, and individual goal setting. Students will also learn the importance of proper warm-up and cool-down techniques, injury prevention, and basic nutrition for performance and recovery. A core component of the course is personal accountability and leadership. Students are expected to demonstrate commitment, sportsmanship, and the ability to work both independently and as part of a team. Students will track their progress through fitness assessments and may be assigned leadership roles during group activities or training sessions. This course prepares students for a lifetime of physical activity, supports mental resilience, and builds the foundation for leadership through fitness.		
MIDDLE SCHOOL PE	**9061/9062**	**GRADE: 7-8**
This dynamic course is designed to help middle school students build lifelong fitness habits, improve physical skills, and develop teamwork and leadership abilities. Students will participate in a wide range of physical activities including team sports, individual fitness challenges, strength and conditioning, and recreational games. Emphasis is placed on physical training (PT), personal goal-setting, and understanding the importance of regular exercise for overall health. Students will learn about proper warm-ups, cool-downs, stretching, and injury prevention, as well as basic principles of nutrition and wellness. In addition to improving strength, endurance, and coordination, students will engage in activities that promote discipline, responsibility, and respect—both on and off the field.		