

Massanutten Military Academy

Course Guide

English

English 5/6 (ELA56)

English 5/6 continue to build upon skills previously taught in earlier grades. There is a continued emphasis on reading comprehension by comparing fiction and nonfiction texts. In fiction texts, students will identify elements of narrative structure including identifying theme and analyzing figurative language. There is an increased emphasis on nonfiction reading by creating objective summaries and drawing inferences using textual evidence. The student will begin the study of word origins and continue vocabulary development. The student will also plan, draft, revise, and edit writing in a variety of forms with an emphasis on narrative and reflective writing. Students will continue to deliver multimodal presentations individually and in collaborative groups. Students will also interpret information presented in diverse media formats. The student will find, evaluate, and select appropriate resources for a research product and cite both primary and secondary sources. As in earlier grades, the meaning and consequences of plagiarism will be stressed.

English 7/8 (ELA78)

English 7/8 is an integrated reading and writing approach will be used to teach reading skills and the writing process through the study of literature. Lessons are developed to present literary forms including fictional texts including narratives, literary non-fiction, poetry, and drama. The use of class novels supplements the numerous self-selected novels read throughout the year. Students will apply previous knowledge of word origins, deviations, and figurative language to extend vocabulary development. Peer editing and revision are also emphasized. Students are required to demonstrate the ability to compose persuasive, reflective, interpretive, and analytic pieces of writing that address a specific topic, purpose, and audience. Students are also required to find, evaluate, and select appropriate resources to create a research product.

English 9 (ELA9)

English 9 will plan, present, and critique dramatic readings of literary selections. Knowledge of literary terms and forms will be applied in the student's own writing and in the analysis of literature. The student will be introduced to significant literary works. Increased requirements for research and reporting in all subjects will be supported by the use of print, electronic databases, online resources, and a standard style sheet method to cite reference sources. The student will distinguish between reliable and questionable Internet sources. Writing will encompass narrative, literary, expository, and informational forms, with particular attention to analysis. The student will demonstrate

correct use of language, spelling, and mechanics by applying grammatical conventions in writing and speaking.

English 10 (ELA10)

English 10 emphasizes reading strategies for students to know how a variety of literary works, themes, and cultural archetypes define literature. The course includes the concepts that distinguish the major genres: fiction, including short stories, fables, myths, novels, and drama; poetry; and essays. The literary elements inherent in the genres serve as concepts to extend the students' knowledge of literature and other print material such as informational texts. All selections serve as focal points for improving reading comprehension, vocabulary development, and grammar and usage skills. The course offers students numerous opportunities to practice the stages of a writing process, from planning to drafting, revising, editing, and proofreading in order to produce final products in narrative, descriptive, and expository writing. In addition, the students explore and use technology to access, organize, and present their ideas effectively.

English 11 (ELA11)

English 11 is designed to build on the development and integration of communication skills in reading, writing, speaking, and listening. This course explores both classic and contemporary American literature and the prevalent themes and characterizations which are reflective of the history and culture. Course work includes numerous writing assignments in a variety of topics. Vocabulary activities include the study of words encountered in reading and content presentations. Grammar development will continue through the application of rules and sentence formation, usage, spelling, and mechanics. Speaking skills are expanded and improved through the preparation and performance of various oral presentations. Students will develop informative and persuasive compositions by locating, evaluating, synthesizing, and citing applicable information with attention to organization and accuracy.

English 12 (ELA12)

English 12 reinforces and extends students' skills in writing, reading, speaking, and critical thinking. Course work includes numerous writing assignments about a variety of topics. Students learn to write formal essays in the APA format, which is the standard used by English departments at most two and four year colleges in the nation. Successful completion of the course requirements prepares the student for college-level humanities classes and for improved writing, in general. This course is structured on a chronological examination of British literary material. Vocabulary activities include the study of words encountered in reading and content presentations. Speaking skills are expanded and improved through the preparation and performance of various oral presentations. Students enhance both critical and a management skill by critiquing each other's oral presentations and writings.

AP English Literature (Grades 11 & 12) (ELA-AP)*

Course focuses on the development and revision of evidence-based analytic and argumentative writing, the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. Additionally, they read and analyze rhetorical

elements and their effects in nonfiction texts—including images as forms of text—from a range of disciplines and historical periods.

Prerequisites- Recommendation from previous English teacher

AP English Language and Composition: (AP-LANG)

Course focuses on the development and revision of evidence-based analytic and argumentative writing, the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. Additionally, they read and analyze rhetorical elements and their effects in nonfiction texts—including images as forms of text— from a range of disciplines and historical periods.

Prerequisites- Recommendation from previous English teacher

Foreign Language

Foreign Language at MMA is delivered through the program Rosetta Stone. Students are engaged on a speaking, reading, and listening level.

Middle School Foreign Language Appreciation- (Grades 5-8)- This course middle school students will be introduced to the different languages MMA offers and will learn basic language syntax, cultural appreciation, and gain an understanding of the history of the language.

History

History 5/6 (HIS56)

Virginia Studies allow students to develop a greater understanding of Virginia’s rich history, from the cultures of its native peoples and the founding of Jamestown to the present. Geographic, economic, and civic concepts are presented within this historical context. Students will develop the skills needed to analyze, interpret, and demonstrate knowledge of important events and ideas in our history and will understand the contributions made by people of diverse cultural and ethnic backgrounds. Students will use geographic tools to examine the influence of physical and cultural geography on Virginia history. Ideas that form the foundation for political institutions in Virginia and the United States also will be included as part of the story of Virginia.

History 7/8 (HIS78)

Students will continue to use skills for historical and geographical analysis as they examine American history since 1865. The standards for this course relate to the history of the United States from the Reconstruction era to the present. Students should continue to develop and build upon the fundamental concepts and skills in civics, economics, and geography within the context of United States history. Students will use investigation as a foundation to delve into the political, economic, and social challenges facing the nation

once reunited after the Civil War. This foundation provides a pathway to develop an understanding of how the American experience shaped the world's political and economic landscapes.

The study of history must emphasize the historical thinking skills required for geographic analysis, economic decision making, and responsible citizenship. Students will apply these skills as they extend their understanding of the essential knowledge defined by all of the standards for history and social science.

World History 1 (Grade 9) (WH19)

World History I begin with Early Man and end with the Early Renaissance. How humans adapted to their environment and established civilizations around the world are the focus of the course. Political and economic systems, as well as cultural and religious beliefs, began and took hold of creating the world we now know. Students develop an understanding of major early world events and relate them to their historical, geographic, political, economic, cultural contexts, and geography. World religions, ancient to medieval regional civilizations, classical and post-classical eras will be studied this year. This course also is equivalent to World Geography 1.

World History 2 (Grades 10) (WH210)

World History 2 study major turning points that shaped the modern world, from the late eighteenth century through the present, including the cause and course of the two world wars. They trace the rise of democratic ideas and develop an understanding of the historical roots of current world issues, especially as they pertain to international relations. They extrapolate from the American experience that democratic ideals are often achieved at a high price, remain vulnerable, and are not practiced everywhere in the world. Students develop an understanding of current world issues and relate them to their historical, geographic, political, economic, and cultural contexts. Students consider multiple accounts of events in order to understand international relations from a variety of perspectives. This course also is equivalent to World Geography 2.

US History (Grade 11) (USHIS)

U.S. History is a yearlong course designed to help students to know and understand various significant historical events spanning early exploration and native cultures of the Americas to U.S. society's current state, with hopes that the student becomes a more well-rounded world citizen. There will be particular focus on how conflicts, ingenuity, and technology of the past have shaped the appearance and experience our society offers in the present. Within the context of this course, there will also be the examination of geographical, government, and citizenship concepts.

AP US History (Grades 11 & 12) (APUSH)*

AP U.S. History covers the spectrum of American history from pre- Columbian days to the present. Using chronological and 7 thematic approaches to the material, the course integrates extensive primary and secondary sources. Class participation through discussions and historical thinking activities are required to be successful. An emphasis is placed on close reading and writing to develop analytical skills and prepare for the AP examination. The course is structured chronologically, divided into 9 Periods outlined in the AP U.S. History curriculum framework.

Prerequisites- Recommendation from previous history teacher

US Government (Grade 12) (USGOV)

U.S. Government is designed to further student knowledge of the functions of government, the election process, civil rights, civil liberties, the origins and foundations of American Government, The Constitution, Federalism, the three branches of government in the United States, the presidency, and various Supreme Court Cases. Students will be familiar with the elected representatives responsible for making local, state, and federal laws in the United States. Students will identify the American President, Vice President, and the Speaker of the House. Students will be able to describe differences between the three branches of American Government. Students will read and understand the depth of the court system and how different Supreme Court cases have shaped the landscape of the political environment in the United States

AP US Government and Politics (Grade 11 & 12) (APGOV)*

AP U.S. Government and politics covers how the government sets and administers policy, and students will learn about the complexities of this process. The founding principles of our government to the debates over how best to balance freedom and order. Explore the various beliefs that U.S. citizens hold about the government, how these beliefs are shaped, and how they affect which policies citizens support. Learning about the many ways that U.S. citizens can influence the decisions the government makes.

Prerequisites- Recommendation from previous history teacher

AP Human Geography (Grades 10-12)

AP Human Geography is an introductory college-level human geography course. Students cultivate their understanding of human geography through data and geographic analyses as they explore topics like patterns and spatial organization, human impacts and interactions with their environment, and spatial processes and societal changes.

Prerequisites- Recommendation from previous history teacher

Mathematics

Math 5/6 (Grades 5&6) (MTH56)

Students will learn about numerical representation, including whole numbers, fractions and decimals. Topics include prime and composite numbers, identifying even and odd numbers, develop proficiency working with fractions and decimals to solve practical problems including those involving ratios, percentages and proportions. Students will learn the order of operations, variables and solving single and multi-step equations and inequalities. Students will learn geometric concepts such as graphs and points in the coordinate plane, as well as area, volume and perimeter of geometric figures.

Pre-Algebra (Grades 7 & 8) (PREALG)

Pre-Algebra will allow students to learn the tools needed for algebra. Students will explore variables, expressions, and integers. Students will be able to solve multi-step equations and inequalities. Other topics that will be covered are percentages, linear functions, and continuing to grow upon the fundamentals of geometry.

Algebra 1 (Grades 8 & 9) (ALG)

Algebra 1 examines the basic structure of real numbers, algebraic expressions, and functions. Students explore linear equations, inequalities, functions and systems, quadratic equations and functions, polynomial and exponential expressions, graphing in the Cartesian plane, data analysis, probability, and the elementary analysis of functions. Mathematical modeling of real-life problems, construction of appropriate linear models to fit data sets, and uses of technology (including some instruction with the TI-83, TI-83+ graphing calculator) are major themes of the course.

Geometry (Grades 9 - 11) (GEOM)

Geometry students will learn angle relationships, including within a transversal. Other topics include properties and classifications of triangles and other polygons, including congruence and similarity. Students will learn properties of right triangles, including the Pythagorean theorem, special right triangles and right triangle trigonometry. Area and volume of circles, spheres, parallelograms and trapezoids are also covered. In addition to geometric concepts, students will learn fundamentals of deductive logic, including topics such as identifying the converse, inverse and contrapositive of an implication.

Algebra II (Grades 10-12) (ALG2)

Algebra II provides a continuation and extension of the basic algebraic concepts from Algebra I and Geometry. Students discuss, represent, and solve increasingly sophisticated real world problems using advanced algebraic techniques incorporating appropriate technology- either calculator or computer. They will study the properties and the algebra of functions, systems or equations and inequalities, as well as applied trigonometry. Algebra II provides a sound understanding of all elementary functions from linear functions through trigonometric and circular functions, explores sequences, series and matrices and determinates.

Prerequisite- Algebra I

Pre-Calculus (Grades 11 & 12) (PRECALC)

Pre-Calculus establishes the background needed for a college level Calculus course. These topics include: real numbers and algebraic expressions; exponents; radicals and rational exponents; polynomials and factoring; rational expressions; linear equations; quadratic equations; linear inequalities; basics and transformations of functions; combinations, composite, and inverse of functions; polynomial and rational functions; and exponential and logarithmic functions. This is followed by the study of trigonometry which includes trigonometric functions and the Unit Circle; trigonometric identities and the polar coordinate system. Topics in matrices, sequences, series, counting, and probability are also covered.

Prerequisite- Algebra 2

Calculus (Grades 11 & 12) (CALC)

Calculus enables students will learn about the central topics of limits, differentiation, and integration. This includes topics such as the continuity, differentiation rules, L'Hospital's rule, concavity, optimization, Riemann sums, antiderivatives, antiderivative rules, u-substitution and an introduction to differential equations. **Prerequisite- Pre-Calculus**

DE Statistics (Grades 11 & 12 through Shenandoah University) (DESTATS)*

DE Statistics, First Semester (SU Course: Math 207)-Students learn introductory statistics and probability. Early in the course, topics include frequency distributions, histograms, stem-and-leaf plots, pie charts, scatterplots, and box-and-whisker plots. Measures of central tendency, variation and position, including the mean, median and standard deviation are covered. Probability distributions, including the normal distributions and the law of large numbers are covered. Students learn the central limit theorem, confidence intervals and hypothesis tests involving z and t scores.

DE Statistics, Second Semester (SU Course: Math 208)

A continuation of MATH 207. Students learn more advanced topics concerning hypothesis testing and confidence intervals involving proportions and chi-squared distributions. Topics covered include correlation and regression, difference tests and nonparametric statistics. Students are also expected to conduct a thorough statistical analysis on a data set they collect.

Prerequisite- Algebra II and Pre-Calculus and letter of recommendation from previous math teacher

Science

Biology (Grades 9 & 10) (BIO)

Biology is a yearlong college-level course designed to challenge students to think critically, to develop a conceptual understanding of the biological sciences. In this course students will learn about the process of scientific investigation through the study of living things. This course will begin with revisiting the fact that Biology is the study of life, and that science is a systematic process of inquiry. This course is designed to cover the biological perspectives of chemistry, study the macromolecules that function within and form organisms, genetics, early embryonic development, as well as a survey of the five kingdoms of life and plant and animal form and function. This course will conclude with application of biological knowledge of environment and social concerns.

Chemistry (Grades 10-12) (CHEM)

Chemistry develops of the fundamental principles of chemistry and their applications. Chemical nomenclature, molar relationships, atomic structure, bonding theories, energy and matter, periodic properties, solution calculations, gas laws, the phases of matter,

and the properties of solids and liquids, organic chemistry and chemistry of life are among the topics discussed.

Physics (Grades 11 & 12) (PHYS)

Physics is a development of the complex understanding of experimentation, the analysis of data, and the use of reasoning and logic to evaluate evidence. The use of mathematics, including algebra and trigonometry, is important, but conceptual understanding of physical systems remains a primary concern. Students build on basic physical science principles by exploring in-depth the nature and characteristics of energy and its dynamic interaction with matter. Key areas covered by the standards include force and motion, energy transformations, wave phenomena and the electromagnetic spectrum, electricity, fields, and non-Newtonian physics. The standards stress the practical application of physics in other areas of science, technology, engineering, and mathematics.

Prerequisite- Algebra II

AP Physics (Grades 11 & 12) (APPHYS)*

AP Physics 1 is equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It also introduces electric circuits.

AP Physics 2 is equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; and atomic and nuclear physics.

Prerequisite- Algebra II

Anatomy and Physiology (Grades 11 & 12) (ANATPHYS)

Anatomy and Physiology is intended to introduce the structure and function of the human body. Students will read about the cells, tissues and membranes that make up the human body and how our major systems function to help us develop and stay healthy.

DE Biology (Grades 11 & 12 through Shenandoah University) (DEBIO)*

DE Biology is a college level class that is broken up into 2 semesters. Semester 1- Principles of Biologic Science including Cell Biology, Molecular Biology, DNA - Genetics and Energy Production. Semester 2- Students will continue to learn the principles of Biologic Science with further work on DNA and its role in transcription to RNA and translation to Proteins. We will then study the Anatomy of Genes, including the medical and therapeutic uses of Genetic Manipulation. The unit will also include a discussion of the ethical considerations that result from our ability to alter the genetic makeup of a human organism. Students will then study energy including the body's multisystem response to exercise and the metabolic response to exercise. The students will learn about the cellular physiology of metabolism including the production and utilization of

ATP. They will use the specific example of the anatomy and physiology of skeletal muscle physiology.

Prerequisites- Biology, Chemistry, and recommendation letter from science teacher.

Electives

Art MS & I-IV (Grades 9-12) (ART)*

The visual arts program offers students comprehensive art experience with detailed exploration in the classics such as painting, drawing, printmaking, ceramics, sculpture, graphic design, and crafts. In addition to gaining confidence and proficiency working with a variety of mediums, students will learn about the history, analysis, and interpretation of art.

Biomedical PLTW (Grades 9-12)

Bio-medical 1 (BIOM1)

Biomedical 1 the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problem.

Bio-medical 2 (BIOM2)-

Bio-Medical 2 allows students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis in the body. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases. (Can also be taken as an Anatomy and Physiology Class for science credit.)

Bio-medical 3 (BIOM3)

Bio-Medical 3 allows students follow the life of a fictitious family as they investigate how to prevent, diagnose and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world

cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

Bio-medical 4 (BIOM4)-

Bio-Medical 4 is the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology.

Computer Science (9-12)

Computer Science 1 (CS1)-

Computer Science one will introduce students to Computer Science and Computer Programming via the programming language Python. The topics covered include Parts of a Computer, How Data is Stored in Hardware, Binary Code, Variables and Operators, Strings, Functions, Random Numbers, Boolean Operators and Expressions, Loops, Objects and Classes, and Graphical User Interfaces.

Computer Science 2 (CS2)-

Computer Science 2 will allow students will be introduced to the programming language Java. In this course there is a major emphasis on object oriented programming. Everything in the Java programming language is an object. Concepts such as data types, classes, objects, inheritance, polymorphism, and algorithms are covered. Individual hands-on laboratory work helps solidify each concept.

Computer Science 3 & 4 (CS3, CS4)-

Computer Science 3 &4 will be an independent study with teacher. Based on students interest, students choose a subject related to computer science. Student will research, study, and do hands on projects related to their topic. Example, robotics, website design, coding etc...

Engineering PLTW (Grades 9-12)

Engineering 1 (ENG1)

Engineering 1 students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work.

Engineering 2 (ENG2)

Engineering 2 exposes students to some of the major concepts that they will encounter in a postsecondary engineering course of study. Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of materials and structures, automation, and kinematics. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology.

Engineering 3&4 (ENG3, ENG4)

Engineering 3 & 4 will allow students to perform research to select, define, and justify a problem. After carefully defining the design requirements and creating multiple solution approaches, teams of students select an approach, create, and test their solution prototype. Student teams will present and defend their original solution to an outside panel. While progressing through the engineering design process, students will work closely with experts and will continually hone their organizational, communication and interpersonal skills, their creative and problem solving abilities, and their understanding of the design process.

Engineering Robotics 1 (Robo 1)

This curriculum provides a structured sequence of programming activities in real-world project-based contexts. The projects are designed to get students thinking about the patterns and structure of not just robotics, but also programming and problem-solving more generally. This curriculum includes videos, animations, and step-by-step lessons designed to help learners foster Computational Thinking using the VEX V5 hardware and VEXcode programming software.

Music (Grades 5-12) (MUS)*

In group and individual settings, students expand their awareness and understanding of music in the context of culture, and their ability to relate music to other academic and extracurricular disciplines. Students also develop their applied music skills through practice and performance on one or more instruments, in alignment with the standards set by the National Association for Music Education (NAfME).

SAT Prep (Grades 11 & 12) (SATP)*

This course provides students with an opportunity to increase the score they earn on the SAT by understanding how the test is constructed, demonstrating mastery of selected content needed as a knowledgebase needed to take the SAT, demonstrating knowledge and application of test taking strategies needed to be successful in taking the SAT.

Army JROTC (Junior Reserve Officer's Training Corps)

Every cadet grades 9-12 are required to take a JROTC Leadership Education Training (LET) per year.

LET I (LET1)

This course is designed to teach values associated with responsible citizenship. Cadets will learn and apply leadership and human relations skills, communication skills, and an appreciation for teamwork and self-discipline. Emphasis is placed upon integrity, responsibility, and respect for each other and authority.

LET II (LET2)

This course is designed to teach values associated with responsible citizenship. Cadets will learn and apply leadership and human relations skills, communication skills, and an appreciation for teamwork and self-discipline.

LET III (LET3)

LET 3 cadets will master platoon and company level drill and ceremony, and assist during Uniform Inspections. LET 3 lessons include diversity and conflict management of their assigned cadets as well as learning to effectively plan and manage Service Learning projects.

LET IV (LET4)

This course continues to emphasize American symbols, customs and traditions and the history and purpose of Army JROTC while exploring leadership principles associated with power bases, leadership styles, management skills and motivation.

*Not all elective, AP, and DE classes are offered every year they are based upon student interest.

College Prep Diploma Requirements

	College Prep Credit Requirements
English	4

Math	3
History, Social Studies	4
Science	3
Foreign Language	2
Health (1) PE (1)	2
Fine Arts	6
Others	
STEM Elective	
JROTC	1 credit for each year enrolled is added into elective credit
Total Credits needed for CP Diploma	24

Advanced Studies Diploma

	Advanced Studies Diploma Credit Requirements
English	4

Math	4
History, Social Studies	4
Science	4
Foreign Language	3
Health (1) PE (1)	2
Fine Arts	6
Others	
STEM Elective	
JROTC	1 credit for each year enrolled is added into elective credit
Total Credits needed for CP Diploma	27

Example Road Map for Massanutten Military Academy

Cadet:

*Cadets who complete 4 years of STEM or JROTC will receive a special seal on their diploma

College Prep Diploma = CP

Advanced Studies Diploma = AS

	CP	AS	Freshman		Sophomore		Junior		Senior		Credits Earned
English	4	4	English 9	1	English 10	1	English 11	1	English 12	1	
Math	3	4	Algebra	1	Geometry	1	Algebra II	1	Pre-Calc	1	
History, Social Studies	4	4	World History I	1	World History II	1	US History	1	US Gov	1	
Science	3	4	Biology	1	Chemistry	1	Physics	1	Anat & Physiology	1	
Foreign Language	2	3	Chinese, French, Spanish	1	Chinese, French, Spanish	1	Chinese, French, Spanish	1	Chinese, French, Spanish	1	
Health (1) PE (1)	2	2	Health Sports	1 P/1							
Fine Arts	6		Elective	0.5	Elective	1					
Others							SAT Prep PPS 11	.5 .5	PPS 12 (sr workshop) Elective	0.5 .5	
STEM Elective			Biomedical, Computer Science, Engineering	1	Biomedical, Computer Science, Engineering	1	Biomedical, Computer Science, Engineering	1	Biomedical, Computer Science, Engineering	1	
JROTC	1 credit for each year enrolled		LET I	1	LET II	1	LET III	1	LET IV	1	
	24			9		8		8		8	0
				9		17		25		33	

Physical Education credit is awarded for participation in:

Fitness Programs, Interscholastic Sports Teams

One PE credit counts toward the 24 required for graduation

Diploma Seeking:

IB-CP:

College/Trade/Military Seeking:

Cadets are enrolled in core courses each year at MMA:

1. English
2. History/Social Studies
3. Math
4. Science
5. Foreign Language (until requirements are completed)
6. JROTC (LET)
7. Electives (Arts, Band, Chorus, SAT Prep, etc.)
8. STEM (Biomed, Engineering, Comp Sci)