

Missouri Military Academy

2011-2012 High School Course Descriptions

Course Name	Description	Grade Level
BUSINESS		
ACCOUNTING I HONORS	Students will learn basic accounting principles to make financial decisions. Accounting for a sole proprietorship and a merchandising business organized as a corporation will be taught using written forms and computer software.	10, 11, 12
BUS LAW HONORS	Students will study the US Constitution, the court system, criminal and civil law. Contract law and the law of sales will be studied thoroughly. Students will learn the legal forms of business organizations, property law and employment law.	10, 11, 12
INTL BUSINESS HONORS	Students will learn the basic foundations of business within the global economy. Includes economic systems, culture, government, money systems, legal systems, small business management, human resources and international career planning.	10, 11, 12
MULTIMEDIA PRODUCTIO	Introduction to videography and pod casting. Using modern multi media outlets on the internet today.	10, 11, 12, PG
OFFICE ENTERPRISE	Office Enterprise is an extension of Office Suite. Office Enterprise focuses on integration of the office programs emphasizing document sharing and collaboration in a business environment. Prerequisite: Office Suites.	10, 11, 12, PG
OFFICE SUITES	The Office Suite class extends skills learned in Keyboarding Class. Students learn and then practice use of Microsoft Word, Excel, PowerPoint and Access in order to perform successfully in either an academic or business environment.	9, 10, 11, 12
TECHNOLOGY INTERN	Assist and study under Education Technology Staff.	11, 12
WEB COMMERCE	Introduction to eCommerce is a survey course of ebusiness as practiced in a global marketplace. Emphasis will be on investigative and collaborative assignments including development of a business plan for a new ebusiness.	7, 8, 11, 12
WEB DESIGN	Introduction to the study of Human Computer Interaction (HCI) and User Centered Design techniques in order to produce useful and usable websites.	10, 11, 12, PG
BUSINESS, ENGLISH		
The Eagle	Students in the Eagle class will explore ways to write news articles, photography and its role in journalism, as well as other general topics in reporting. They will also take a look at new types of media and multimedia aspects of today's journalism.	11, 12
ENGLISH		
COMPOSITION I (DC)	Composition I is a dual credit composition class. It has a writing/discussion format where many issues are discussed in relationship to the literature and today's world.	12
CREATIVE WRITING	Students will learn the art and science of creative rhetoric from the writer's point of view. They will compose, evaluate, and revise creative writing, mainly short stories and poetry. A personal essay may also be included.	11, 12
ENGLISH I	English 102 introduces students to the rigorous demands of English at the high school level, providing a foundation study of literary genres, composition techniques, vocabulary acquisition and application, public speaking, using educational technology.	9, 10, 11, 12
ENGLISH I HONORS	English 103: introduces the students to the rigorous demands of English in high school using a workshop style providing a foundation of literary genres, composition techniques, vocabulary acquisition and application, public speaking, and using technology	9, 10, 11, 12
ENGLISH II	English II is geared for students to improve their writing style, whether narrative or essay, and prepare for college and standardized tests with specialized vocabulary and analyzing two novels in addition to other English genre.	9, 10, 11, 12
ENGLISH II HONORS	English II Honors units include two novels, a selection of short stories, vocabulary, essay writing and evaluating, The Tragedy of Julius Caesar, and various projects and activities based on in-class readings and lessons.	10, 11, 12

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ENGLISH III	English III is a writing intensive college prep class. Three novels, and two research papers will be completed, in addition to Test Prep, Vocabulary, and Personal Essays.	11, 12
ENGLISH III AP	AP Literature is a literature based writing class in preparation for taking the AP exam. Literary terms and techniques in a variety of genre will be discussed, as well as analysis of literature in essay form.	11, 12
ENGLISH IV	English IV units include two novels, a selection of short stories, vocabulary, essay writing and evaluating, The Tragedy of Macbeth, and various projects and activities based on in-class readings and lessons.	12
ENGLISH IV AP	This AP English Language and Composition course has been designed to provide students with a learning experience equivalent to the introductory year of college literature and language course work.	11, 12, PG
SPEECH	This course serves as an introduction to the fundamentals of public speaking. The course will both emphasize and assist the student with the planning, preparation, and presentation of different types of speeches.	9, 10, 11, 12, PG
WRITING ARGUMENTS (Dual Credit. Students learn how to construct an argument or proposal tailored for the audience. Many controversial topics are utilized in building an effective argument: classical, proposal, causal, analogy, etc.	12
YEARBOOK 101	Yearbook 101 students will learn computer page design, photography, headline/caption writing, organization and planning skills, meeting deadlines, fact checking, and reporting and coordinating with coaches, instructors and photographers.	11, 12, PG

FINE ARTS

ART FUNDAMENTALS	A course that serves as the pre-requisite for all other high school level art courses at MMA, presenting the elements of visual art and the principles of good design through drawing and painting 2-dimensional art media and assignments.	9, 10, 11, 12
ART IV HONORS	Offered to 4th year cadets who have taken and passed the required MMA visual art courses and who wish to prepare a portfolio of artwork to present for admission and/or scholarships to higher education institutions.	12
BAND	High School Band consists of four units, the Marching Band, Concert Band, Jazz Band and the Drum and Bugle Corps. Each student should have a personal appreciation for music and establish a standard of excellence on their instrument.	9, 10, 11, 12
CHORUS A	Chorus A is a select group that will perform at various functions at a local level as well as state and national levels and will sing at weekly Vespers Services. Audition required.	9, 10, 11, 12
DRAMA	Drama 101 is a workshop-oriented course that introduces students to the basics of stage acting, sound & lighting, and stage design and construction. The course provides active learning through participation in the two MMA Dramateers productions.	1, 2, 3, 4, 5, 6, 7, 8, 9
DRAWING/PAINTING	An advanced level 2-D art course for cadets who have taken and passed Art Fundamentals class. First semester will introduce additional media and styles of drawing, and second semester will introduce further painting, including oils.	10, 11, 12
HUMANITIES	This course will introduce the student to the arts and humanities. Its goal is to allow the student to experience painting, architecture, sculpture, music, literature, philosophy, dance, theater and film.	10, 11, 12
PREP BAND	Preparatory Band is a class designed for high school beginners or for cadets who have played an instrument in the past and want to improve their skill to join the high school band.	9, 10, 11
PRINTMAKING/3D DESIGN	Introduces the use of the elements of art and principles of design in three-dimensional art media. Content learned in Art Fundamentals will be applied to making a variety of print media, and will be expanded to use in three-dimensional art media.	10, 11, 12
PRIVATE MUSIC	Private Music is offered to any cadet who wants to learn to play an instrument or wants to advance his instrumental or vocal skills. One on one instruction is provided to learn how to read music and rhythms in addition to monitoring practice.	9, 10, 11, 12

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Course Name	Description	Grade Level
FOREIGN LANGUAGE		
CHINESE I	This course integrates the Program Goals: Communication, Cultures, Connections, Comparison. It is a study of Chinese Language and cultures incorporating the development of listening, speaking, reading and writing within the program goals.	9, 10, 11, 12, PG
SPANISH I	This course integrates the Program Goals: Communication, Cultures, Connections, Comparison. It is a study of Spanish Language and cultures incorporating the development of listening, speaking, reading and writing within the five Program Goals.	9, 10, 11, 12
SPANISH II	Throughout this level, the student will build on using the language in its cultural context. Using appropriate readings, the students will refine their listening skills. Communications practices allow the student to use language in real-life settings.	9, 10, 11, 12
SPANISH III HONORS	This course continues providing students with the necessary language skills which enable them to work toward achieving an intermediate level of proficiency in speaking and listening as well as expand their reading comprehension and writing skills.	10, 11, 12
SPANISH IV AP	The AP Spanish course provides students with the opportunity to read, discuss, and analyze critically in Spanish representative works of Peninsular and Latin American literature through class discussion and essay writing. Conducted totally in Spanish.	11, 12
MATH		
ALGEBRA I	Basic concepts and terminology of algebra, writing, solving, graphing linear equations and inequalities will be taught. Solving quadratic equations, factoring and using polynomials will be taught later in the course.	9, 10, 11, 12
ALGEBRA I HONORS	Basic concepts and terminology of algebra, writing, solving, graphing linear equations and inequalities will be taught. Solving quadratic equations, factoring and using polynomials will be taught the later part of the course.	9, 10, 11, 12
ALGEBRA II	The course focuses on algebraic methods and techniques (TI-83 graphing calculator) in solving the problems that include functions, linear, polynomials, and quadratic equations. In addition, this course introduces matrices, conic sections, logarithms.	9, 10, 11, 12
ALGEBRA II HONORS	This course focuses on algebraic methods and techniques (TI-83 graphing calculator) in solving the problems that include functions, linear, polynomials, and quadratic equations. Introduces matrices, conic sections, logarithms, and trigonometric ratios.	10, 11, 12
CALCULUS AB AP	This course prepares students for the AB level of AP Calculus Examination. This course provides a foundation in calculus at least equivalent to that of a first calculus course provided in a typical university curriculum.	11, 12
CALCULUS BC AP	This course prepares students for the BC level of AP Calculus Examination. This course provides foundation in calculus at least equivalent to that of the first two calculus courses provided in a typical university curriculum.	12
GEOMETRY	Geometry provides students with experiences that deepen the understanding of two and three-dimensional objects and their properties. Deductive and inductive reasoning as well as investigative strategies in drawing conclusions are stressed.	9, 10, 11, 12
GEOMETRY HONORS	Geometry provides students with experiences that deepen the understanding of two and three-dimensional objects and their properties. Deductive and inductive reasoning as well as investigative strategies in drawing conclusions are stressed.	9, 10, 11, 12
INTEGRATED MATH	Integrated Mathematics provides students the major concepts of Trigonometry, Geometry, and Statistics. Topics from logical reasoning, measurement, probability, statistics, discrete mathematics, and functions are interwoven throughout the course.	11, 12

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PRE-CALCULUS	An introduction to the concepts of limit, derivative, anti-derivative, and definite integral in the context of a catalog of elementary relations including polynomial, exponential, logarithmic, trigonometric, and inverse trigonometric functions.	10, 11, 12
PREALGEBRA	Students should be able to understand algebraic expressions, properties and orders of operation, evaluate equations with integers and exponents, simplify roots and powers, perform factorization, and make connection between pre-algebra and the real world.	9, 10, 11, 12
STATISTICS AP	AP Statistics is the high school equivalent of a one semester introductory college statistics course. In this course, students develop strategies for collecting, organizing, analyzing, and drawing conclusions from data.	11, 12
STATISTICS HONORS	Statistics introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The four broad conceptual themes are exploring data, planning a study, anticipating patterns, and statistical inference.	11, 12
SCIENCE		
BIOCHEMISTRY	This course focuses on the application of chemistry to the study of biological processes at the cellular and molecular level. Topics include structures and functions of macromolecules, regulation of gene expression, biotechnology, and human disease.	11, 12
BIOLOGY I	This course provides a working knowledge of life science. It introduces major concepts of selected biological topics, including cell chemistry and structure, vertebrate zoology, human anatomy/physiology, genetics, evolution, and ecology.	9, 10, 11
BIOLOGY I HONORS	This course is for the above-average student. It introduces major concepts in life science, including cell biology, vertebrate zoology, and human anatomy/physiology. In addition, students conduct more research and write essays on selected topics.	9, 10, 11
BIOLOGY II	In this second year biology course students study selected biological topics, including cell biology, bacteria, viruses, protists, fungi, plant structure and function, and invertebrate zoology. Students also write essays and perform laboratory exercises	10, 11, 12
BIOLOGY II HONORS	In this second year biology course, selected students study a variety of topics, including cell biology, microbes, protists, fungi, botany, and invertebrate zoology. A greater emphasis is placed on research and laboratory exercises.	10, 11, 12
CHEMISTRY	This course focuses on the fundamental concepts of inorganic and organic chemistry. Throughout the course, students study topics in atomic structure, formula naming, stoichiometry, and solutions. In addition, students perform laboratory exercises.	11, 12
CHEMISTRY AP	An in-depth survey of a wide variety of topics in chemistry. Laboratory exercises are designed to promote critical thinking skills and college-level laboratory techniques. Prior completion of a basic chemistry course with a grade of A or B is recommended	11, 12
CHEMISTRY HONORS	This course focuses on more advanced concepts of inorganic and organic chemistry. In detail, students study topics in atomic structure, formula naming, stoichiometry, and solutions. Students are required to do more research and laboratory exercises.	9, 10, 11, 12
CONCEPTUAL PHYSICS	This course focuses on fundamental concepts of Physics without introducing complex calculations. Students should be able to understand principles of physics by means of discussion, simulations, and hands-on activities and apply to real situations.	9, 10, 11, 12
ENVIRONMENTAL SCIEN	This course is designed for students interested in the physical, chemical, and biological components of the environment. Throughout the year, students explore and investigate the basic concepts in ecology and physical science.	9, 10, 11
PHYSICS II HON	Honors Physics focuses on three units of Physics: Mechanics, Heat, and Electricity. Students should be able to learn essential elements of Physics and demonstrate in-depth understating of the contents and lab skills.	10, 11, 12

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PHYSICS III AP	AP Physics covers five general areas of physics: Mechanics, Thermal Physics, Electricity, Optics, and Nuclear Physics. Students will gain understanding of core principles of physics and apply them in problem solving.	11, 12
SOCIAL STUDIES		
ECONOMICS 402	The student will be introduced to the economic principles that guide individual, business, and national decision making. Students will develop critical-thinking skills through the understanding, application, and analysis of fundamental economic concepts	11, 12
ECONOMICS AP	Advanced Placement course. The study of basic concepts relating to supply, demand, business organization, income, taxation, money and banking, consumption and savings and investment. Prepares students for the Advanced Placement Exam in Microeconomics.	11, 12, PG
ECONOMICS HONORS	The student will be introduced to the economic principles that guide individual, business, and national decision making. Students will develop critical-thinking skills through the understanding, application, and analysis of fundamental economic concepts	11, 12
MILITARY HISTORY	This course is a survey of military developments and history from ancient to modern times. Frequent military and civilian guest lectures will be used to supplement the class.	11, 12
U.S. GOVERNMENT	The student will be introduced to the principles and processes of Constitutional Democracy, become acquainted with the political heritage of the United States and will thoroughly understand the components and purposes of the U.S. Constitution.	11, 12
U.S. GOVERNMENT HONOR	The student will be introduced to the principles and processes of Constitutional Democracy, become acquainted with the political heritage of the United States and will thoroughly understand the components and purposes of the U.S. Constitution.	11, 12
US HISTORY II	This course begins with the Meso-American and continues through the Vietnam War. Assessments include regular tests, quizzes, oral presentations and two semester exams.	11, 12
US HISTORY II HONORS	This course begins with the Meso-American and continues through the Vietnam War. Assessments include regular tests, quizzes, oral presentations and two semester exams.	11, 12
WESTERN INTELLECTUAL	This course will look at the perennial works and thoughts of the western canon through the Socratic method of teaching	11, 12, PG
WORLD HIST HONORS	This course will provide the student with an overview of the major events that have shaped the world's civilizations. The course will avoid interpretive extremes and guide the student through a survey of man's past.	10, 11, 12
WORLD HISTORY	This course will provide the student with an overview of the major events that have shaped the world's civilizations. The course will avoid interpretive extremes and guide the student through a survey of man's past.	10, 11, 12