



Summer School 2022

Curriculum Guide

Course Descriptions and Credit Information

Enrichment Courses: Enrichment courses are offered in the morning and afternoon and essentially function as Summer School elective courses. Upon successful completion of an enrichment courses, students will receive a half credit that will typically count as elective credit at most schools.

Current or future FUMA cadets may take the Leadership enrichment course in lieu of the Leadership seminar offered during the regular school year. Successful completion of the Leadership enrichment course will satisfy the half-credit Leadership graduation requirement that all cadets must meet

Repeat Courses: Repeat courses are offered in the morning and afternoons and essentially function as credit recovery courses for high-school-credit courses. Students who successfully complete these courses will receive full credit if they have already completed the course for a full year at FUMA or another institution. Students may also choose to audit these courses if they have not already completed the course at FUMA or another school.

Middle School repeat courses will not award credit (i.e., Middle School English)

Future Credit Courses: Future credit courses are offered as full-day courses. Upon successful completion of a future credit course, students will receive a full credit. If a student opts to take a future credit course, he will remain in this course during both the morning and afternoon class sessions.

DISCLAIMER: All course descriptions are for the full academic year. Please note that these courses will be adapted and modified as necessary when offered as repeat courses.

DISCLAIMER: The course offerings are subject to change based on enrollment and class size.

ENGLISH OFFERINGS

MS English (Repeat)

Students read and study a variety of fiction and nonfiction, building on an understanding of reading as a process that includes analyzing and interpreting the text. Language study includes building vocabulary, learning about grammar, and spelling. Through varied and frequent writing assignments, students build on their understanding of writing as a process that includes drafting, revising, editing, proofreading, and publishing. Students practice a variety of writing forms including informational/technical and essay writing. All students learn research skills and adapt speaking and writing skills to the audience, topic, purpose, and situation.

English I – World Literature I (Repeat)

English I is a general review of the standard rules of grammar and usage with emphasis on the parts of speech with their various forms and agreement within the sentence structure as well as punctuation, and other problem areas such as commonly misused and confused words, etc. All of these elements will be taught both in theory and within the context of writing. Short writing exercises will focus on the correct use of target vocabulary in addition to grammatical concept(s) currently being studied. Longer writing exercises will focus on expository writing with emphasis on the writing process, coherence, and style. The focus of daily reading will be to complement and provide examples of the writing strategies and styles being studied. Reading selections will provide practice and development in critical and evaluative reading and thinking skills.

English II – World Literature II (Repeat)

English II is a course designed as a survey of authors who have contributed to their nations' literature and who are further recognized as having an impact upon literature as a whole. This survey is combined with instruction in the writing and research processes enabling students to plan, draft, edit, and revise various types of essays and to acquire skill in employing basic research strategies, including the use of the Internet, to locate information to support their thesis statements. The course also involves a review of basic grammar as it pertains to writing at the syntactic level.

English III – American Literature (Repeat)

English III is a course for 11th grade students designed to provide an in-depth, historical survey of American literature coupled with a general review of the standards rules of grammar and usage. Course will emphasize the parts of speech with their various forms and agreement within the sentence structure. The class will also address punctuation, commonly misspelled and misused words, and other problems identified during the writing process. A combination of short and longer written exercises will incorporate proper use of vocabulary words, story analysis, and literary devices to better understand American literary works. The development of essay writing skills containing careful literary analysis, focusing on vocabulary and precise grammatical structure is emphasized. Daily reading assignments will complement and provide examples of the writing strategies and styles being studied. Reading selections will provide practice and development of critical, evaluative reading and thinking skills.

MATHEMATICS OFFERINGS

Pre-Algebra – (Repeat)

This course provides a transition from basic math to more complex mathematical concepts. This course aims to prepare the student for Algebra I and Geometry. The use of fractions, mixed numbers, and decimals in all operations is thoroughly practiced. The concepts of percent, ratio, and order of operations are introduced.

Algebra I (Repeat)

Algebra I provides a foundation for the introduction of more advanced secondary math courses. Students begin with a unit on the use of variables and proceed through the basic operations as they relate to algebra. Linear sentences and slope-intercept equations are covered, as are exponents, powers, quadratic equations, and polynomials. Topics also include factoring, the use of functions, and basic concepts in geometry. Successful completion of Pre-Algebra is a pre-requisite for the course.

Geometry (Repeat and Future Credit)

Geometry is designed to review, reinforce, and expand on the basic algebraic properties introduced in Algebra I. The concepts of proof are presented and applied in developing a course in the traditional Euclidean Geometry. Emphasis is placed on definitions, theorems, postulates, and applications of those topics in solving problems. All facets of lines, angles, triangles, and circles are explored. Additional work on polygons, polyhedral, and the Cartesian plane are explored as time permits. Successful completion of Algebra I is a prerequisite for the course.

Algebra II (Repeat and Future Credit)

Algebra II is both a review of the essential content of first-year algebra and also an introduction to new concepts in the development of each core unit. A primary goal is the use of these mathematical ideas in application and to solve word problems. Appropriate summary, review, homework, classwork, and testing procedures will follow each unit with enrichment added when possible. Successful completion of Algebra I is a pre-requisite for the course.

SCIENCE OFFERINGS

Earth Science (Repeat)

Earth Science is designed for students in grades 8-12 and provides instruction in scientific principles and analysis and includes a laboratory component. Earth Science is an interdisciplinary study in science that provides students with the scientific principles, concepts, and methodologies required to understand the geology, meteorology, hydrology, and astronomy of planet Earth. Earth Science will offer a wide array of instruction involving these four disciplines of study involved in the creation and continuation of the planet. The course's unifying theme is an understanding of the natural world, its ancient and present processes, and our humanitarian role involved in taking care of the Earth

Biology (Repeat)

Biology is devoted to the study of living things and their processes. Throughout the year this course provides an opportunity for students to develop scientific process skills, laboratory techniques, and an understanding of the fundamental principles of living organisms. Students will explore biological science as a process, cell structure and function, genetics and heredity, the theory of evolution, diversity of living organisms and their ecological roles, and an introduction to human anatomy and physiology.

Chemistry (Repeat)

This course is designed for students who are ready to compare, contrast, and synthesize how matter, chemical reactions, and energy are calculated and the resulting changes that result throughout the chemical process. This course will also provide an introduction to lab techniques safety via hands-on use of laboratory equipment and chemicals. Students will also investigate the atomic structure, mathematical rules related to the following: scientific notation, rounding, dimensional analysis, significant figures, as well as electron configurations, density, periodic table history and trends, chemical bonding, states of matter, phase diagrams, acids and bases, chemical equilibrium, the structure of the atom, quantum theory/mechanics, mole and mass relationships (stoichiometry), percent yield/composition, percent error, partial pressures, rates of reactions and concentrations, gas laws, and the 1st and 2nd Laws of Thermodynamics. Successful completion of Algebra II is a prerequisite for the course.

WORLD LANGUAGES

Spanish I (Repeat and Future Credit)

Spanish I is the first level of the Spanish language program and endeavors to provide students with vocabulary and cultural background, as well as a basic understanding of grammatical concepts useful for communicating in the Spanish language in practical, everyday situations. The text employs a natural presentation in the form of a dialog, narrative, or other expository material emphasizing the activities of young people in order to enable students to act and react with an acceptable degree of proficiency in the skills of listening, speaking, reading, and writing. Vocabulary and grammar are presented in conjunction with culture to heighten the student's appreciation of the foreign culture and to provide insight into the daily aspects of and historical importance of Hispanic/Spanish life and society.

Spanish II (Repeat)

Spanish II is a second-level course offered to cadets who have satisfactorily completed a Spanish I course. This course consists of a general review of Spanish I with an emphasis on correct conjugation of verbs in different tenses, complex sentence construction, vocabulary building, translation, correct pronunciation, and reading comprehension. Readings and exercises are designed to promote the simultaneous development of the four language skills: reading, writing, listening, and speaking. Vocabulary and grammar are presented in a cultural context to heighten students' appreciation of foreign language and culture and to provide insight into the daily aspects of life in certain Spanish-speaking countries.

ENHANCEMENT COURSES

Leadership (.5 credit Enhancement Course)

This course in leadership will focus on leadership both as a science (or concept) and as a service to others that models Christ. In focusing on leadership as a science, students will learn how to effectively lead in their respective environments (both present and future), while simultaneously bringing out the best in those around them. In the servant-leadership portion of the course, students will learn that leadership is not simply a science: it is an act done in service to others in a Christ-like manner.

HS Career Readiness (.5 credit Enhancement Course)

This course will give students the tools to transition them in their chosen direction after high school. Students examine activities important for success in employment and postsecondary education. Students will learn essential skills necessary to find, acquire, maintain, and grow within a job. Topics will include finding a career match, how to search for a job, applying to a job, resume-writing, interview skills, and professionalism in the workplace. Students will engage in written case studies, research papers, portfolio development, presentation and speaking activities, business writing and telephone skills.

Study Skills (.5 Credit Enhancement Course)

Students will practice different studying and testing techniques to better prepare for future classes. Techniques will focus on skills such as time and task management, organization, effective professional communication, test taking skills, etc.