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# Communication Arts

In the course of English I, we cover the topics of structuring a paragraph; and parts of speech, sentences, and phrases. We also read, analyze and discuss short stories, Shakespeare, poetry, fiction and non-fiction, including biographies, historical and dystopian.

In the course of English II, we cover the topics of grammar and parts of speech, sentences, and phrases. We also read, analyze and discuss poetry, Shakespeare, novels from the genres of: historical, gothic horror, contemporary, classic and dystopian. Also the procedures and processes for researching and supporting a topic/idea are covered. The prerequisite for this course is English I.

In the course of English III, we cover the topics of that are encompassed in English with the goal to deepen the understanding. We will cover grammar, the writing process and parts of speech. We will also expand their understanding of culture through American Literature.

In the course of Career English, we cover the topics of resume writing, job applications and technical reading and writing. This course is designed to have a practical and hands on approach to reading and writing.

In the course of College English I \*, we cover the topics of critical reading and writing skills. The emphasis in reading has students locating, evaluating, and synthesizing information in an analytical and ethical manner. The emphasis in writing develops students' understanding of the ways writers generate and express ideas of different purposes to various kinds of audiences across a range of context, including social, academic, and professional. Students work on argumentation, rhetorical analysis, and editing for clarity, style, and conventions. The prerequisite for this course is English I, English II and English III. This course is for seniors only and is a dual credit course.

In the course of College English II \*, we cover the topics of writing and research of various disciplinary fields of study; experience with integrating and applying academic forms to specific problems and situations. Includes the study of ways knowledge is made and expressed in various disciplines. The prerequisite for this course is English I, English II and English III. This course is for seniors only and is a dual credit course.

In the course of Creative Writing, we cover all the ways to express thoughts, ideas, and emotions through the written word. We achieve this through writing short stories, essays, poetry, journaling and political cartoons. This course is writing intensive. The prerequisite for this course is English I, English II and English III.

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In the course of Genealogy, we cover the process of research through investigating family histories. Information will be gathered through oral interviews, historical records, genetic analysis, and other records to obtain information about a family and to demonstrate kinship and pedigrees of its members. The results are often displayed in charts or written as narratives.

In the course of Mythology, we explore the origin and characteristics of the Greek and Roman gods and goddesses. We also discuss and analyze their effect on history and society. Also, this course is writing intensive. The prerequisite for this course is English I, English II and English III.

In the course of The Novel, we cover read novels covering of the genres of fictional, historical, contemporary, non-fiction, science fiction, and classic literature. Through these novels, we cover the topics of theme, society, morals, perspective, and character development. The prerequisite for this course is English I, English II and English III.

# Mathematics

In the course of Pre-Algebra, we review math fundamentals, order of operations, fractions, and decimals. We cover the topics of solving linear equations, linear inequalities and graphing mathematical expressions.

In the course of Algebra I, we cover the topics of equations and graphs; statistics; polynomial functions; quadratic expressions; and modeling with equations. We also discuss mathematical relevancy and application. The prerequisite for this course is Pre-Algebra.

In the course of Geometry, we cover the topics of logical reasoning; spatial relations; geometric relations; and transformations (rotation, reflections, and) .We also discuss geometric shapes; congruent similarities of geometrics; and probability and statistic. The prerequisite for this course is Pre-Algebra or Algebra I.

In the course of Informal Geometry, we cover the topics of logical reasoning; spatial relations; geometric relations; and transformations (rotation, reflections, and) .We also discuss geometric shapes; congruent similarities of geometrics; and probability and statistic. In this course, students will not have to memorize theorems and will not cover proofs. Also, students will use more hands-on manipulatives to learn geometric concepts. The prerequisite for this course is Pre-Algebra.

In the course of Algebra II, we review systems of equations, linear and quadratic equations, and linear and quadratic inequalities. We cover the topics of polynomials, rational and radical expressions, probability, sequencing, and logarithmic equations. We also discuss mathematical relevancy and application. The prerequisite for this course is Pre-Algebra, Algebra I and Geometry.

In the course of Algebra III, we cover the topics of polynomial functions; logarithmic functions; systems of inequalities; and sequences and probability. We also discuss mathematical relevancy and application. The prerequisite for this course is Pre-Algebra, Algebra I, Algebra II and Geometry.

In the course of College Algebra \*, we cover the topics of linear and quadratic equations; inequalities and their applications; polynomial, rational, exponential and logarithmic functions; and systems of equations. The prerequisite for this course is Algebra I, Algebra II and Geometry. This course is a dual credit course.

In the course of Trigonometry, we cover the topics of basic trigonometric functions; right triangles; radian measure and circular functions; trigonometric identities; inverse trigonometric functions; oblique triangles; and vectors. The prerequisite for this course is Algebra I, Algebra II and Geometry.

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In the course of Math Analysis, we cover the topics that prepare students for college calculus. Contents include the study of exponential functions; logarithmic functions, trigonometric functions; discrete mathematics; probability theory and statistics. Students will learn how to use a graphing calculator (a TI-83 will be used as an example in the classroom). The prerequisite for this course is Algebra I, Algebra II, Geometry and College Algebra/Trigonometry.

In Select Math, we cover a wide variety of math concepts for the purpose of mathematical competition. We also discuss ACT material and programming. The prerequisite for this course is instructor selection.

# Science

In the course of Physical Science, we cover the topics of properties of matter; periodic table of elements; chemical formula; and balancing chemical equations. We also discuss forces of motion; working machines; electricity and circuits; and magnets.

In the course of Biology I, we cover the topics of the classification of organisms; plant and animal cells and their parts and functions; genetics; cell reproduction; pollution and its effect on ecology; and the effects of the food web. We also discuss evolution. Also, this course covers the procedures and techniques of proper laboratory behavior and skills. The prerequisite for this course is Physical Science.

In the course of Biology II, we cover the topics of parts and functions of the eleven systems of the body; diseases of the body and how these diseases spread; treatment of diseases and ailments. We also discuss and analyze blood typing; genetic disorders and how they are passed from parent to offspring; and the different types of body tissues and their functions. Also, this course covers the procedures and techniques of proper laboratory behavior and skills. The prerequisite for this course is Physical Science and Biology I.

In the course of Chemistry I\*, we cover the topics the periodic table; atomic mass; element symbols; atomic models and its components. We also discuss mole mass relationships; property of matter; balancing equations; different chemical reactions; solutions and their properties; and chemical nomenclature. Also, this course covers the procedures and techniques of proper laboratory behavior and skills. The prerequisite for this course is Physical Science and Algebra I with a 'C' or better.

In the course of Chemistry II, we cover the topics of properties of acids and bases; equilibrium; organic chemistry and bio-chemistry. We also discuss oxidization and nuclear chemistry. Also, this course covers the procedures and techniques of proper laboratory behavior and skills. The prerequisite for this course is Physical Science, Chemistry I and Algebra II with a 'C' or better.

In the course of Physics, we cover the topics of projectile, linear, and curricular motion in both dimensions; acceleration and momentum; energy; and velocity, force, and gravity. We also discuss electricity and nuclear physics. The prerequisite for this course is Algebra II with a 'C' or better.

In the course of Earth Science, we cover the topics of all aspects and components concerning the ecology, ecosystem and bionetwork of Missouri's rivers, streams and lakes. We also discuss the invertebrates in Missouri water systems and the geology and topography of Missouri's landforms. The prerequisite for this course is Physical Science and Biology I.

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# Social Studies

In the course of American History, we cover the topics of Reconstruction and the Gilded Age; American Imperialism; Progressive Era; World War I and the Roaring 20's; the Great Depression and the New Deal; World War II; and Civil Rights Era and the Cold War Era. We also discuss the Modern Age and America's heritage of war and its impact on American society.

In the course of World History, we cover the topics of Scientific Revolution; English and American Revolution; French Revolution; Napoleon and his empire; Industrial Revolution; the unification of European countries; World War I; and World War II. We also discuss democracy and reform; and current political and historical events. Prerequisite for this course is American History.

In the course of Government, we cover the topics of modern political and economic systems including capitalism, socialism, communism, and federalism. It will take an in-depth look at the National Government, the Constitution and its key principles. Finally, the course will analyze the Missouri Constitution and its role as a state in the Union. This is a junior or higher level course.

In the course of Contemporary Issues, we cover the topics involving current events on the national, international and local levels. Other social issues will be addressed through research and presented. The students will improve their communication skills, critical thinking and develop an understanding of how current events shape their lives. This is a junior or higher level course.

In the course of Economics, we cover the topics of microeconomics; macroeconomics; gross domestic product; inflation; aggregate supply and demand; the monetary system; and the Federal Reserve. We also discuss the government's involvement and role in the economy; international trade; elasticity and scarcity; consumer and producer surplus; production decisions and economic profit; and forms of competition. This is a junior or higher level course.

In the course of Missouri History, we cover the topics of early Missouri history; French and Spanish influences on Missouri; the Lewis and Clark Expedition; the period of Missouri as a territory; early Missouri statehood; slavery in Missouri and the Civil War; and Missouri government and legislation. We also discuss Ozarks history and local legends; and Missouri today and in the future. This is a junior or higher level course.

In the course of Psychology, we cover the topics of mind and behavior. We will seek to understand individuals and groups by establishing general principles and researching specific cases. We will also cover the topics of perception, emotion, intelligence, motivation, brain functioning, personality, behavior, and interpersonal relationships. Abnormal psychology and mental disorders are also discussed. This is a junior or higher level course.

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In the course of Sociology, we cover the topics of social behavior, including its origins, development, organization, and institutions. The topics of social order, social disorder and social change are also covered. Also covered are topics of social stratification, social class, social mobility, religion, secularization, law, and deviance. This is a junior or higher level course.

In the course of World Geography, we cover the topics involving the physical and human aspects of geography. Topics include: tools of geography and a look at the earth's changing surface, weather, climate, vegetation, and the oceans. The student will leave this course with knowledge of major political and physical features of the world. This is a junior or higher level course.

In the course of U. S. History\*, we cover the topics of the modernization of the United States and its role in world affairs from the late 19th Century to the present, with emphasis on industrialization and urbanization and their impact on socioeconomic and international developments. This is a junior or higher level course. This course is a dual credit course.

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# Practical Arts

## Agriculture

In the course of Agricultural Science I, it is designed to be a broad spectrum agricultural class covering many different topics related to Soil Science, Animal Science, and the FFA. Along with animal reproduction and management we will spend time covering animal health, breed identification, feeds and feeding, FFA history, parliamentary procedure and the science of soils. As part of this curriculum each student will be required to memorize and recite the FFA creed in front of the class. This will need to be done by Christmas break in order to receive credit. This can be done one paragraph at a time with no point deductions. I typically will form our Soils CDE team from this class. In the past, the Fourth quarter of this class will spend most of their time learning how to Arc weld and use the oxy/acetylene torch. This will be dependent of the class and their willingness to learn and follow the safety procedures required.

In the course of Agricultural Science II, it is designed to be a Natural Resource based class. Topics will included Wildlife Management and Forestry. Along with these topics, we will also incorporate record book and shop activities. Much of the curriculum in this class can be learned during outside lab activities, but if this becomes a distraction in class work can be just as effective. When the class does outside activities everyone will be required to attend and participate.

In the course of Agriculture Construction, it will be a lab based course sharing time with in class activities. Upon completion of a test based knowledge assessment, we will typically go to the shop for a short time and practice the skills learned in the classroom. All classroom rules and expectations are the same for the shop. Understand that there are no guarantees for the amount of shop time received, this will be based on the attitudes and participation level while learning a skill first in the classroom. Once the shop tools and their functions are understood, each student will be required to build a project to completion. Materials used for personal projects must be purchased by the student from a business or the Forsyth Agriculture Shop.

In the course of Agricultural Processing/Greenhouse, it will be a very diverse course learning many different skills. Along with learning the Meats evaluation career development event, students will manage the greenhouse operations as well as the aquaculture systems for the Ag Classes. These students will need to be available for the greenhouse sale in the spring as well as be willing to physical work when required.

In the course of Wildlife Management/Natural Resource Class, it is designed for students to be outside as much as possible. We will evaluate habitat for a number of species including mammals, birds, and aquatic animals. Carrying Capacity and Conservation will also be studied in depth. The Hunters Education will also be taught during this class.

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## Business

In the course of Accounting I, it is designed to build a basic understanding of accounting principles, concepts, and procedures. Activities include using the accounting equation, analyzing and journalizing transactions, posting to ledgers, preparing statements and reports, managing payroll, and calculating taxes.

In the course of Accounting II, it is designed to help students acquire a more thorough, in-depth knowledge of accounting procedures and techniques. Students will develop skills in analyzing and interpreting information and preparing formal statements.

In the course of Computer Applications, students will develop computer skills necessary for success in school and business environments. This course provides an introductory look at the features of several popular applications of the Microsoft Office Suite. Emphasis will be placed on using Word, Excel, Access, and PowerPoint. This course is a dual credit course.

In the course of Desktop Publishing, it is designed to develop skills in using desktop publishing software to learn/utilize the fundamentals of layout, design and use of font, color and graphics. Students will analyze the audience to effectively communicate the desired message.

In the course of Sports & Entertainment Management, it is designed to develop sound management concepts within students, as management plays a role in any future employment opportunity. Students are able to analyze, synthesize, and evaluate data from the other functional areas of business (e.g., marketing, finance, and production). Effective management requires decision-making abilities, long-range planning knowledge, human relations expertise, and motivational skills. Students learn the four basic functions of management.

In the course of Sports & Entertainment Marketing, it is designed to provide students with the opportunity to learn and apply marketing principles in the field of Sports, Recreation, Entertainment, and E-Marketing. Emphasis is placed upon the functions of financing, marketing information management, pricing, product/service management, promotion, and selling.

In the course of Web Design, this yearlong course is designed to provide students with the knowledge and experience to develop business/marketing websites. Students will learn the basics of Web site design, graphics, and animation in a real production environment. Web pages and web sites will be developed utilizing a variety of software tools including Adobe Dreamweaver, Photoshop, and Flash. In this course of Web Design II, this course takes an in-depth look at using HTML coding to build and customize websites using an online tutorial called Codecademy. In addition, students will learn how to build websites specifically in Adobe Photoshop and Flash.

## Family and Consumer Science

In the course Nutrition and Wellness, it is designed to prepare individuals to understand the principles of nutrition; the relationship of nutrition to health and wellness; the selection, preparation and care of food; meal management to meet individual and family food needs and patterns of living; food economics and ecology; optimal use of the food dollar; understanding and promoting nutritional knowledge and application of related math and science skills.

In the course of Family and Individual Health, it is designed to prepare individuals to understand the related aspects of health and wellness with special emphasis on nutrition, emotional health and physical health; the relationship of the health of an individual to the wellness of the family; the prevention of illness; and the basic care of the ill, including the elderly, the young child and individuals with disabilities.

In the course of Housing and Human Environments, it is an instructional program that describes the study of the behavioral, social, economic, functional, and aesthetic aspects of housing, interiors, and other build environments. Includes instruction in analyzing, planning, designing, furnishing, and equipping residential work, and leisure spaces to meet user needs and the study of related public policies.

In the courses of Child Development I & II, it is instructional program that describes the study of the intellectual, social, emotional, and biological development of children and the planning and design of related human services. Includes instruction in parent-child relations; Parenting practices; special needs of children; parental and environmental influences on child development; external support services; and related public policy issues.

In the course of World Foods, it is a course where students will learn about various cultures in the United States and foreign countries. The foods from the areas will be discussed along with the culture, historical significance and geographic location. The students will participate in food labs that correspond with the selected culture.

In the course of Clothing and Textiles, it is an instructional program that prepares individuals to understand the social, psychological aspects of clothing and physiological aspects of clothing and textiles; the nature, acquisition and use of clothing and textile products; the selection, construction, maintenance and alteration of clothing and textile products; and the effect of consumer choices on the individual and family, as well as the clothing and textile industry.

In the course of FACS I, it is an instructional program that prepares individuals for basic aspects of living. This course will instruct individuals in nutrition, food preparation, housing issues that include budgeting and creative situation decorating, relationships, child development and recourse budge management.

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# Fine Arts

## Art

In the course Art I, we cover the techniques to increase knowledge of the elements of art, the principles of design, as well as study art history, aesthetics, and art criticism. Students will draw in various media (charcoal, pencil, color pencil) learning and attaining good quality of technique. Students will also create sculptures in clay, create color studies in acrylic paint and write a paper critiquing a work of art using the four steps of art criticism. Participation in and field trips to local exhibits will be taken as the opportunity arises.

In the course of Art II, we cover the techniques to continue to increase the knowledge and ability of the elements of art, principles of design, as well as study art history, aesthetics and art criticism. Students will improve drawing techniques as well as be introduced to different drawing medias. Students will produce functional ceramics, silkscreen printmaking, various painting techniques and media. Units on illustration, computer graphics and graphic arts will also be completed. Each student will be assisted in discovering his/her own art style and direction. Participation in student exhibits as well as field trips to student and professional exhibits will be taken as the opportunity arises.

In the course of Advanced Art, we cover the elements of art, principles of design, as well as study art history, aesthetics and art criticism. Students will concentrate on planning and design of projects. Students will produce a nonfunctional ceramic sculpture, design and create an exhibition architectural model, design a product and present to viewers, continue to explore various painting techniques and media. Architectural and graphics computer programs will be used on some projects. Participation in student exhibits as well as field trips to student and professional exhibits will be taken as the opportunity arises.

## Vocal and Instrumental Music

In the course of Music Appreciation, we cover awareness and appreciation for music expression. Emphasis will be on studying elements of music and studying different styles of music. The class will study different periods in music history. Students will be required to listen to all styles of music and analyze the characteristics they hear. Students will be expected to recognize and evaluate composers from each time period.

In the course of Band, this course is designed to increase the technical knowledge of music and music reading in such areas as rhythm accuracy, and all forms of staff notations, as well as extensive concentration on sight-reading. The student will learn proper band and instrument techniques such as embouchure, fingerings, and tone placement. Grades are based on performances, class participation, and playing tests.

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In the course of General Choir, we cover the techniques to increase the technical knowledge of music in such areas as tonal and rhythmic elements, features of staff notations, and sight singing. The student will learn to use correct choral techniques such as breath control, placement of tone, diction and voice projection.

In the course of Select Choir, it is aimed toward developing the musicianship of each student by encouraging life-long skills of responsibility, self-discipline, self-motivation and punctuality; an understanding of a variety of musical styles and composers, the basic elements of music theory, the art of performing, developing the concept of working together as a team to create music and promoting school and community relations through performance.

## Physical Education

In the course of Physical Education, students will learn basic fundamentals and rules of various team and individual sports. Sports and activities that will be taught include – basketball, baseball/softball, bowling, archery, football, pickle ball/badminton, fitness, volleyball, soccer, and cricket. Students will also develop muscular strength and endurance, flexibility and cardiovascular endurance. A lot of classroom time will be spent on teaching in activities that will help carry over to the upper level high school physical education classes. Time will be spent each day developing physical fitness and flexibility in each student.

In the course of Weight Lifting, it has a primary focus on the development of anaerobic and aerobic conditioning and fitness. The course centers on the philosophy of individualized and group outcome – based workouts. The program includes, but is not limited to, the use of weight training, plyometrics and cardiovascular training.

In the course of Lifetime Sports, it is designed to explore various sports that can be enjoyed throughout a lifetime and that contribute to good physical health.

## Health

In the course of Health, it is designed to cover the balance of all three areas of health (mental, physical and social). The topics include healthy and balanced eating, proper exercise and activity levels, body systems, diseases of the body and sexual health education.

## Personal Finance

In the course of Personal Finance, students will learn money management skills and the financial planning process. This class will emphasize setting financial goals, successful careers, budgeting, the time value of money, how credit works and understanding financial risk. Students engage in activities designed to make a connection between classroom knowledge and real-life situations. Students will also write a resume and go through the job interview process. Guest speakers with careers in finance will be utilized whenever possible.

# Electives

In the course of ACT Test Preparation, this course focuses on test taking strategies and skills. Students will also focus on ACT content related videos, online resources, and practice tests. This course is designed to strengthen a student's ability to test well and improve a student's knowledge covered in the ACT.

In the course of ROTC I, it is designed to provide an introduction to both leadership and citizenship. It also exposes new cadets to personal growth and responsibility and establishes a foundation in military structure and tradition. Additionally, cadets participate in a healthy physical education program and are first exposed to the teamwork required in organized drill.

In the course of ROTC II, it is designed to continue the leadership and citizenship education from LE-I. During LE-II students receive instruction in General Military Subjects with more structure and tradition than in LE-I. Cadets also receive an introduction to the exciting sport of marksmanship. LE-II begins a cadet's orienteering training with map and compass. This unit also provides additional experiences in personal growth and responsibility, as well as citizenship.

In the course of ROTC III, it is designed to resume building upon the subjects they studied in LE-I and LE-II, including various career options by beginning to learn more about public service and other possible careers for life after high school. In LE-III, cadets also learn about job seeking and the interview process as well as receiving instruction in personal finances.

In the course of ROTC IV, it is designed to be the culmination of a cadet's Leadership Education studies. Cadets are expected to keep up with and be able to discuss current events. Social and cultural topics such as equal opportunity and sexual harassment are studied, and a research paper is required on a subject approved by the instructor. Finally, cadets create a personal resume for their future use after high school.

In the course of Spanish I, it is the Introduction to Spanish and gives students a basic understanding of the Spanish language through listening, speaking, reading and writing instruction. The course also provides an understanding of the civilization, culture, and customs of Spanish-speaking people. The course is designed for beginners.

In the course of Spanish II, it is designed to continue the introduction of the grammatical structure in an attempt to give the student an understanding of and ability to use the language of Spanish. Besides the emphasis on language skills, the course continues to provide an understanding of the civilization, culture, and customs of Spanish-speaking people.

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In the course of Spanish III, it is the goal of the Spanish students with as many opportunities as necessary in order to obtain mastery in the language. To achieve this goal, this rigorous course will provide students with several opportunities to lay a solid foundation so that the students may engage in effective communication. Although this will be accomplished through vocabulary and grammar practice, students will also be expected to continue to work on the four major areas of communication: reading, writing, listening and speaking. The course will use a variety of teaching methods, as student interactivity is key in learning an additional language.

In the course of Spanish IV, students will review Spanish II and III vocabulary and structure and continue to develop an awareness and sensitivity to Hispanic culture. Students will learn additional vocabulary related to topics of interest and the study of the verb tenses, modes and voices: present and past subjunctive, conditional, imperative, passive, and the perfect tenses. The student will learn demonstrative pronouns and adjectives. Daily classroom activities will give the student practice with the four communication skills: listening, speaking, reading, and writing.