

All courses are one year in length unless otherwise noted.

BUSINESS/VOCATION DEPARTMENT**Computer Applications 10**

This is a required one-semester course for sophomores. Integration of presentation software, spreadsheets, and word processing documents is explored through Microsoft Office and Google Apps. Functions for the above applications are explained, demonstrated, and practiced. Students will also spend time working with photo editing apps, apps used for organizing various projects, and some that are used for online collaboration.

Study Skills

This course is a one-semester elective for freshman students and is designed to equip them with tools and techniques that will assist them in their high school studies and beyond. Topics covered include: listening skills; time management; note-taking; test-taking strategies; higher-order thinking skills; library use; paraphrasing; and paragraph writing. Students will also complete a short research paper.

ENGLISH DEPARTMENT**English 9**

This freshman course includes traditional grammar studied throughout the year with an emphasis on incorporating learned grammatical structures into more mature writing. Writing strong expository paragraphs and themes is stressed. Writing skills are consistently refined and improved through the school year. Literature is interspersed and is taken from the following options: *A Christmas Carol*, *Romeo and Juliet*, *The Outsiders*, *Anthem*, and *The Giver*. Weekly vocabulary quizzes are given.

English 10

This sophomore course continues a survey of genres begun in the ninth grade course. Literary works are chosen from various short stories and novels, namely *To Kill a Mockingbird*, *Animal Farm*, *Lord of the Flies*, *Fahrenheit 451*, and *Dr. Jekyll and Mr. Hyde*. Students write expository, comparison/contrast, persuasive, and descriptive themes. Grammar skills are strengthened and reviewed throughout the year. Students learn the fine points in research papers and demonstrate this skill through the completion of short research papers. Weekly vocabulary quizzes are given.

American Literature

This one semester English elective, offered to juniors and seniors, enables students to analyze literary contributions made by American authors from 1500 to the present. Novels, short stories, plays, speeches, biographies, and poems feature known and

established American authors including Washington Irving, Edgar Allan Poe, Emily Dickinson, Langston Hughes, and more. Major works studied include *The Great Gatsby* and *The Crucible*. A major paper is written. Weekly vocabulary quizzes are given.

British Literature

This one semester English elective, offered to juniors and seniors, enables students to study literary contributions and culture from exclusively British authors. Units are studied from different eras and cover the Anglo-Saxon, the Middle Ages, the Renaissance, the Romantics, the Victorians, and the twentieth century while studying major works chosen from *Beowulf*, *The Canterbury Tales*, *Macbeth* (or another work by William Shakespeare), *The Rime of the Ancient Mariner*, *Frankenstein*, and *The Murder at the Vicarage*. A major paper is written. Weekly vocabulary quizzes are given.

Composition

This one semester English elective, offered to juniors and seniors, delves into the written form of the communication process while emphasizing the sharpening and perfecting of the writing skills learned in previous classes. The students use critical reading and thinking skills to analyze essays before writing their own essays on narration, description, illustration, process analysis, comparison and contrast, classification, definition, cause and effect, and argumentation. A major research paper will also be completed.

Creative Writing

This one semester English elective, offered to juniors and seniors, allows students to explore the art of creative writing. Primarily, students will be asked to write fiction and poetry, with the option to pursue drama. The students are asked to share their writing, while both giving and receiving suggestions from their peers. This course is designed to allow students as much creative freedom in their work while maintaining a high standard of quality.

Drama

This one semester English elective, offered to juniors and seniors, includes drama throughout history with an emphasis on the study of Sophocles and the classical beginnings of theater, Shakespearian tragedy and comedy, and twentieth-century drama. Major works studied include *Medea*, *Everyman*, *A Midsummer Night's Dream*, *Macbeth* (or another Shakespeare play), *Tartuffe*, *A Raisin in the Sun*, *The Importance of Being Earnest*, and *12 Angry Men*. A major paper is written.

Novel

This one semester English elective, offered to juniors and seniors, enables students to analyze the development of the 20th century novel and its contributions to the literary world. Special attention will be given to character development, themes and motifs, symbols, setting, and other important elements of the novel. Novels read will be selected from the following list: *Of Mice and Men*, *A Separate Peace*, *1984*, *The Things They Carried*, *The Secret Life of Bees*, and *The Time Machine*. A major paper is written. Weekly vocabulary quizzes are given.

Speech

This one semester English elective, offered to juniors and seniors, delves into the verbal form of the communication process. This semester is spent learning how to transfer written material into effective oral presentations. The students will spend the majority of the time giving speeches in front of class. Class prerequisite is Composition.

World Literature

This one semester English elective, offered to juniors and seniors, enables students to analyze literary contributions from a variety of authors, from a variety of eras, and from all the continents of the world. Novels, short stories, plays, speeches, biographies, diary entries, and poems will be studied along with major works taken from the following: *All Quiet on the Western Front*, *Swimming in the Daylight*, *A Doll's House*, and *The Scarlet Pimpernel*. A major paper is written. Weekly vocabulary quizzes are given.

AP English Literature and Composition

AP English Literature and Composition is a full year English elective offered to seniors and engages students in careful reading and critical analysis. Through the close reading of selected texts (emphasizing literature of the sixteenth to twenty-first century), students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. Writing assignments focus on the critical analysis of literature and include expository, analytical, and argumentative essays in order to increase students' ability to explain clearly what they understand about literary works and why they interpret them as they do. Prerequisite is grades of B- or higher in English classes taken junior year and/or instructor's permission. Students may opt to take the AP English Literature and Composition Exam for the possibility of earning college credit.

FOREIGN LANGUAGE DEPARTMENT

Spanish 1

Spanish 1 is a freshman/junior elective. If students choose to take this course as freshmen, they are strongly encouraged to continue their language study for four years. Spanish 1 serves as an introduction to the basic skills of communication in the Spanish language and Latino culture through reading, writing, listening, and speaking. Students build a basic vocabulary and learn to communicate in the present and simple past tenses. This class is conducted primarily in Spanish and students are encouraged to use Spanish whenever possible to communicate their ideas.

Spanish 2

Spanish 2 is a sophomore/senior elective. This course builds on the basic communication skills and cultural concepts presented in Spanish 1 through continued exposure to reading, writing, listening, and speaking in Spanish. Students expand and enhance their Spanish vocabulary, increase their fluency in the present tense, and learn to give commands and communicate in the preterit, imperfect, progressive, future, and conditional tenses. This class is conducted primarily in Spanish and students are encouraged to use Spanish at all times.

Honors Spanish 3

Honors Spanish 3 is a junior elective. This course serves to systematically review and increase proficiency in all grammatical concepts learned in Spanish 1 and 2 as well as to learn and use more advanced sentence structures in Spanish. Students continue to expand and enhance their Spanish vocabulary and knowledge of Latino culture, learn the perfect and subjunctive tenses, and develop practical reading, writing, listening, and speaking skills through reading selections and short stories, written works, video and listening exercises, and situational conversations. This honors class is conducted entirely in Spanish and students are required to use Spanish at all times. Prerequisite: Successful completion of Spanish 2 with a grade of B- or higher and/or instructor's permission.

AP Spanish Language and Culture

This course follows the guidelines of the College Board AP Spanish Language and Culture course and provides opportunities for students to demonstrate their proficiency in the modes of communication from the Intermediate to the Pre-Advanced range as defined in the learning objectives in the Curriculum Framework. The three modes of communication (Interpretive, Interpersonal, and Presentational) defined in the Standards for Foreign Language Learning in the 21st Century are foundational to the AP Spanish Language and Culture course.

The AP Spanish Language and Culture course is conducted exclusively in Spanish. Central to the course is the overarching principle as stated in the Curriculum Framework: "When communicating, students in the AP Spanish Language and Culture course demonstrate an understanding of the culture(s), incorporate interdisciplinary topics (connections), make comparisons between the native language and the target language and between cultures (comparisons), and use the target language in real life settings (communities)."

Bible stories and devotions in Spanish are also integrated into the course. Prerequisite: Successful completion of Spanish 3 with a grade of B- or higher and/or instructor's permission.

MATHEMATICS DEPARTMENT

Algebra 1A

This course explores the beginning topics of a typical Algebra 1 course, with a focus on linear equations and functions, linear inequalities, and systems of linear equations and inequalities. Throughout the course, not only will students learn new Algebra concepts, but they will also have the opportunity to strengthen basic math skills. This course is the first of two courses teaching the material of a regular Algebra 1 course. Successful completion of this course will earn students the ability to enroll in the Algebra 1B course the following year, in which they will cover the more complex topics of a typical Algebra 1 course.

Algebra 1B

Algebra 1A and Algebra 1B are designed to teach the concepts of Algebra 1 at a two year pace.

Since Algebra 1 is a requirement of graduation and the necessary building blocks for any student to survive in today's technological world, it is important to build that firm foundation in order to succeed in upper-level courses in mathematics. Through the Algebra 1B Portion, students focus on the following concepts: Exponents and Exponential Functions, Quadratic Expressions, Equations and Functions, Radical and Rational Functions, and an introduction to Statistics and Probability.

Algebra 1

Algebra is a branch of mathematics that is an important stepping stone to higher mathematics and very useful in today's technological workplace. This course develops basic algebraic concepts in a problem solving and systematic way; turning arithmetic into Algebra by using letters to represent unknown numbers, and continues to solve the unknown values through algebraic and graphical means. Topics include: A review of algebraic concepts, solving variable equations, functions, finding and using linear equations and inequalities to solve problems, finding and using quadratic equations to solve problems, graphs of equations, solving systems of equations, rational and radical expressions and equations, studying various equations (polynomial, exponential, logarithmic) and their graphs, basic trigonometry, as well as basic statistics and probability.

Algebra 2

This course extends the content of Algebra 1 through the study of linear and quadratic equations, polynomials, complex numbers, the Binomial Theorem, relations and functions, including rational, exponential and logarithmic functions, and basic trigonometric concepts. Graphing calculators and mathematical modeling are used as tools throughout the course.

Geometry

This elective course is open to junior and seniors. It is designed to develop geometric concepts to students with a variety of achievement levels, skills and needs. It provides a solid foundation to learning geometric skills without the rigors of formal proofs. Topics covered include points, lines, planes, measurement, triangles, parallels, quadrilaterals, similarity, polygons, circles, area, volume, coordinate geometry, transformations and trigonometry.

Honors Geometry

This honors course is an accelerated study of geometry with investigations, constructions, activities, and projects. Honors Geometry is an exploration of geometric relationships with a wide variety of tools, from compasses to computers, from patty papers to graphing calculators and geometry apps. The students perform constructions, measure figures, observe patterns, and discuss their findings to discover geometric ideas, write definitions, formulate geometric conjectures, and develop proofs. Study may include geometry in art, topology, and coordinate, projective, transformational, and spherical geometries. Students

should be able to successfully work independently as well as cooperatively.

Consumer Math

Consumer math is an elective course with a focus on mathematics for business and personal finance. It is designed to present situations where students experience many facets of financial stewardship. This course reviews concepts involving the management of your money (gross income, net income, recordkeeping with budgeting, checking accounts, and savings accounts), the management of your expenses (cash purchases, charge accounts, credit cards, and loans), as well as making financial decisions (vehicle costs, housing costs, insurance, and investing). Personal finance as it applies to saving, investing, credit, debt, financial responsibility with money management, and insurance with risk management is also a core element of this course.

Honors Pre-Calculus/Trigonometry

Pre-Calculus / Trigonometry is an honors course for those who have completed Algebra II and Geometry. This course blends together all of the concepts and skills that must be mastered for a college level calculus course. An algebraic and graphical approach provides for the study of functions (polynomial, rational, quadratic, exponential, and logarithmic) and their properties. This course also includes a review of trigonometric concepts with an extension to inverses as well as other applications. The topics of study in this course also include two and three- dimensional coordinate systems (rectangular and polar) and works with equations for curves. Additional topics include: parametric equations, vectors, conic sections, polar coordinates, complex numbers, limits, sequences / series, and systems of equations.

Honors Calculus

This honors course is for those who have completed Honors Pre-calculus and Trigonometry. The course deals with rates of change, limits, derivatives of algebraic and trigonometric functions, a wide variety of applications of the derivative from many fields of study, and indefinite and definite integrals with applications. Enrollment is subject to successful completion of Honors Pre-calculus and Trigonometry and approval of the math chairperson and the guidance counselor. Students may opt to take the AP Calculus Exam for the possibility of earning college credit.

MUSIC DEPARTMENT

Freshman Music

This one-semester elective course is offered to ninth graders. During this course the students will be introduced to the basics of music. Some of the topics covered are the essentials in music notation, various music genres and composers throughout history, recognition of an assortment of musical instruments, and vocal skills improvement. Students will also review the basics of report writing while writing a short report on a topic connected to music. Students in this class may have the opportunity to participate in the Spring Sacred Concert and the Spring Concert as part of a choir.

Music 10

This course is a one semester required course designed to give students a better working knowledge of music theory. This course both reviews and expands on the music notation covered in our Freshman music course. Topics covered include music notation, rhythm and meter, scales, key signatures, intervals, chords, and chord progression. The semester ends with students arranging their own music to go along with a selected hymn from our hymnal.

Concert Choir

This elective course is a mixed choir that rehearses every day. Membership is based not upon an inherent ability to sing well but upon the willingness to commit oneself to improving vocal skills, to performing in several school concerts, to memorizing music to be performed, to contributing positively and regularly toward the improvement of the group, and to using all musically-related gifts, abilities and talents to their fullest potentials. This elective may be repeated.

Band

This elective course meet is open to any student who is able to play (or willing and able to learn) a band instrument. Membership is based not upon an inherent ability to play well but upon the willingness to commit oneself to improving individual instrumental skills, to performing in several school concerts, to contributing positively and regularly toward the improvement of the ensemble, and to using all musically-related gifts, abilities and talents to their fullest potentials. This elective may be repeated.

PHYSICAL EDUCATION DEPARTMENT

Physical Education 9

Freshman P.E. is a one-semester required freshman course. It is designed to help each student develop good fitness habits. Students will also learn to become respectful competitors and cooperative team members by participating in team activities. It gives students a basic knowledge of various lifetime sports which include: handball, badminton, floor hockey, jump rope, archery, football, lacrosse, track and field and golf.

Health

Health is a one-semester freshman course. This course gives students an awareness of different aspects of personal health. These aspects include: relationships, personal care, stress management, nutrition, physical fitness, abstinence, tobacco, alcohol, drugs, and diseases. With increased health awareness, students will learn to adapt to situations that will improve personal health.

Junior/Senior Physical Education

Junior / Senior Physical Education is designed to direct the student into sporting activities which help develop a physically fit body. Students will also learn to become respectful competitors and cooperative team members by participating in team activities. It gives students a basic knowledge of various lifetime sports which include: tumbling, handball,

badminton, dodge ball, basketball, omnikin, golf, softball, rugby, track and field, disc, flash football, speedball, wrestling, aerobics, dance, floor hockey, volleyball, eclipse ball, pickle ball, jump rope, archery, football, soccer, lacrosse, softball, kickball, hi-lo scoop.

RELIGION DEPARTMENT

Old Testament

This ninth grade course tracks God's plan of salvation by studying the historical books of the Old Testament. This includes a thorough study of the first five books of the Bible. Here we study Creation, The Fall, The Flood, the Patriarchs, Joseph, and the time of Moses. Next the students study the following phases of Israelite history: the takeover and control of the land of Canaan led by Joshua; the exile from the land in the Assyrian and Babylonian captivities; the return to the land of Israel in the time of Ezra and Nehemiah. The course also spends time with the Psalms, Proverbs, and the writings of these Old Testament prophets: Isaiah, Jeremiah, Ezekiel, Daniel, Jonah, and Malachi. All of the study includes an application of God's Word for our lives today.

New Testament

This course begins with a general study of Scriptures, what it means that it is God's Word and the blessings we receive from it. We study the 4 Gospels – comparing them and understanding their differences and seeing how they all in their own unique way contribute to the story of the Lord Jesus. We study the Gospels to look at the life of Christ and many of his activities/miracles/parables during his earthly ministry. We study the book of Acts. The focus of this study is the ministry of Paul and Peter and the growth of the early Christian church. Finally we look at several NT epistles: 1st and 2nd Peter, Ephesians, Philippians, and James. Here we examine the teachings that the apostles have left for us to better understand how the Lord wants us to live. All of our study includes application of God's Word for us today.

Epistles/ Book of Revelation

After a brief overview concerning the nature, basic content, and purpose of the Bible, we will delve, for one-semester, into several NT epistles (letters) written by the Apostle Paul (Galatians, Colossians, Philemon, I and II Thessalonians, I and II Timothy), the Apostle John (I, II, and III John), and Judas, a brother of Jesus (Jude). Following this, we conclude with a study of the last book of the Bible, the Book of Revelation. An examination of these NT writings should help us better understand and take to heart God's plan of salvation, the person and work of Christ, God's control of human history, the Christian's relationship with Christ and others, and the Christian's hope for the future. This is an elective semester class for juniors and seniors.

Christian Ethics

This one-semester course revolves around some of the moral and social "hot buttons" of our day. In the light of the moral framework of Scripture, we will explore and evaluate a number of ethical issues that concern the sanctity of human life, such as abortion, euthanasia, capital punishment, war, and stem cell research. In addition, we will look at

marriage and family and how they are defined from a Biblical perspective. Common sources of conflicts within a marriage, conflict resolution, divorce, and other related issues and challenges to marriage and family will also be topics of discussion, viewed through the lens of God's Word. Throughout the course, Christian ethics will be compared and contrasted to the secular, humanistic version of ethics that is embraced by many in today's Western culture. This is an elective semester class for juniors and seniors.

Worldviews

After defining what a worldview is, the purpose of this one-semester course is to get students to understand and identify with the Biblical (Christian) worldview, being able to see our world in light of God's Word, and not the other way around. In addition, this course seeks to make our students aware of a number of non-Christian worldviews that people accept throughout the world. This course begins with a study of Genesis 1-12, comparing and contrasting the Biblical worldview with the secular worldview (atheism, agnosticism). Following this, we will learn about other theistic worldviews and the belief systems of the major world religions (Hinduism, Buddhism, Islam, and Judaism). They too will be compared and contrasted to the Biblical worldview of Christianity. The overriding focus of this course is give answers as to why Christians believe what they believe. This is an elective semester class for juniors and seniors.

OT Literature

This one-semester course begins with a brief overview of the OT, taking note of when it was written, along with its basic content and purpose. Following this brief overview, our attention will be directed to parts of the OT, classified as wisdom literature. Against the historical backdrop of the OT, we will study selected Psalms and the Book of Ecclesiastes, learning Biblical principles which provide opportunity to enhance our worship, relationships, and our perception of the world around us. Following this, our study will shift to at least three of the OT prophets (Joel, Isaiah, Daniel), paying special attention to their messianic prophecies of the coming Savior and God's unfolding plan of salvation. As with any study of God's Word, we seek application for our daily lives from what has been learned. This is an elective semester class for juniors and seniors.

SCIENCE DEPARTMENT

Biology

This required course is a survey of life. Laboratory activities based on classifying, microscopes, nutrition and other areas are included. Specific topics of study include: the cell and its functions, heredity, plants, various representative animals, the human body, and ecology.

Introduction to Chemistry

This class is a one-semester introduction to the basics of chemistry with special emphasis on changes in matter, writing chemical formulas and writing balanced chemical equations. Students will experience safe laboratory procedure training, correct data collection and analysis techniques and proper use of basic laboratory equipment. Incidental topics

include energy changes, acids and bases, nuclear chemistry and basic organic chemistry.

Introduction to Physics

This class is a one-semester follow-up to Introduction to Chemistry. Topics include motion, heat, electromagnetism, waves, sound and optics. Special emphasis will be placed on solving simple physics problems related to the various topics. Students will experience safe laboratory procedure training, correct data collection and analysis techniques and proper use of basic laboratory equipment.

Chemistry

Chemistry is a laboratory-based elective course for college preparation that introduces students to chemical concepts and phenomena. Specific topics include: atomic structure, compounds and mixtures, chemical reactions, gases, acids and bases, thermochemistry, equilibrium and reaction mechanisms. Special emphasis is applied to stoichiometric relationships in chemical reactions.

Honors Chemistry

Honors Chemistry is an elective laboratory-based, introduction to chemical phenomena with emphasis on problems and methods in chemistry. This class is designed as a first-year university chemistry class in terms of topics covered, lab experiences and academic rigor. The goals of the course are: 1) to introduce students to concepts required for solving problems in chemistry and understanding chemical reactivity; and 2) to develop analytical and critical thinking skills. Topics include stoichiometry; properties of gases, liquids, solids and solutions; chemical equilibrium; chemical thermodynamics; atomic and molecular structure; chemical kinetics; periodic properties; nuclear chemistry; electrochemistry; organic chemistry and descriptive chemistry of elements.

Physics

This one-year elective course studies physical phenomena of nature. Topics include mechanics, heat, electromagnetism, waves, optics and modern physics. While the main focus of the course is conceptual, the mathematic side of physics also included. Laboratory experiments designed to reinforce lecture topics will be included on a regular basis.

Honors Physics

In this elective course, students perform laboratory activities to reinforce topics learned in lecture. This class is designed after an algebra-based university physics class in terms of depth of topics, lab experiences and academic rigor. Topics in the class include data collection and organization, Newtonian mechanics, heat and kinetic theory, waves and optics, electromagnetism and modern physics. This course is offered with the option to take the Advanced Placement test. Students may complete the course and take a rigorous exam developed by The College Board. Students who score satisfactorily on the exam are eligible for college credit, advanced placement or both at over 2,900 colleges and universities. Algebra 2 is a prerequisite.

SOCIAL STUDIES DEPARTMENT

Ancient History

This ninth grade course covers cultures and civilizations as related to the historic cycle beginning with the Creation, the ancient river valley civilizations, and later, the classical civilizations. It covers the political developments as well as the social, structural, and cultural developments from the Middle Ages up to the Renaissance.

European History

This tenth grade course covers political, social, and cultural developments starting with the Renaissance and the Age of Exploration to Imperialism from a European point of view. It continues from Imperialism to post-World War II from a world point of view.

American History

This eleventh grade course covers the period from discovery and exploration through the Civil War during the first semester. The second semester begins with Reconstruction and ends with an emphasis on the events of the twentieth century.

American Government

The major objective of this one-semester class for seniors is to help the student develop a basic understanding of the workings of the various units of the federal government. In this way, the student will be better prepared to take an active role in the government process. The Constitution is thoroughly presented in preparation for the state-mandated Constitution test.

Economics

This one-semester class for seniors covers the basic principles of economics, while preparing the student to live in a world in which they work, buy, sell, and actively participate as citizens.

Western Geography

This junior/senior elective establishes a sound base of geographic skills and the knowledge necessary to comprehend local, regional, and world issues. This course will be a region-by-region approach covering the historical, physical, and cultural aspects of Western Europe, The United States, Canada, Latin America, Australia, Oceania, and Antarctica.

Eastern Geography

This junior/senior elective establishes a sound base of geographic skills and the knowledge necessary to comprehend local, regional, and world issues. This course will be a region-by-region approach covering the historical, physical, and cultural aspects of Russia, Asia, and Africa.

Current Events

This sophomore-senior elective course gives students important information about the present administration, Congress and The Supreme Court. It then takes a look at ten domestic policy issues that are currently facing our society.

Foreign Affairs

This sophomore-senior elective course gives students important information about the present administration, Congress and The Supreme Court. It then takes a look at ten foreign policy issues that are currently facing our society.

AP World History

AP World History focuses on developing students' abilities to think conceptually about world history from approximately Creation to the present and apply historical thinking skills as they learn about the past. Five themes of equal importance — focusing on the environment, cultures, state-building, economic systems, and social structures — provide areas of historical inquiry for investigation throughout the course. AP World History encompasses the history of the five major geographical regions of the globe: Africa, the Americas, Asia, Europe, and Oceania, with special focus on historical developments and processes that cross multiple regions.