

**Course Description Guide  
Updated 2021-2022  
Kolbe Cathedral High School**



*Empowering Our Learning Community with  
Knowledge, Skills, and Catholic Values*

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<b>Grading System:</b>			<b>Curriculum</b>
<b>Grade</b>	<b>Range</b>	<b>Quality Points</b>	<b>College Preparatory</b>
A	95-100	4.0	Classes meet for 80-minute periods, 5 times per week, 4 credits per semester.
A-	90-94	3.75	4x4 block schedule. Average class size is 20.
B+	85-89	3.5	
B	80-84	3.0	
C+	75-79	2.5	
C	70-74	2.0	<b>Honors Program</b>
D	65-69	1.0	Consists of English, Math, Social Studies, and Science courses.
F	64	0.0	
<b>Passing grade: D</b>			
<b>First Honors:</b> 3.75 average or above. No grade below a B.			<b>Advanced Placement</b>
<b>Second Honors:</b> 3.25 average or above. No grade below a C+. No more than one C+.			English Literature and U.S. History
			<b>Graduation Requirements</b>
			A student must earn a minimum of 29 credits.

## **The 4x4 Block Schedule**

Kolbe Cathedral utilizes the 4x4 Block Schedule. Courses meet five times per week for eighty minutes.

Courses may last for nine weeks, eighteen weeks, or thirty-two weeks (a quarter, a semester, or a whole academic year, respectively).

The block schedule allows for maximized instructional time with minimal passing time.

<b>Distribution:</b>		<b>Class Rank:</b>
Religion	4 credits	<p>Rank is calculated at mid-year and the end of each year including all subjects.</p> <p>Weighting factor for AP and Honor courses is used.</p>
English	4 credits	
Math	4 credits	
Science	4 credits	
Social Studies	4 credits	
Foreign Language	2 credits	
Arts/Vocational Education	1 credit	
Health & Physical Education	2 credits	
Electives	6 credits	

### **Community Service Obligations**

- Freshmen complete two group community service projects
- Sophomores complete 10 hours of community service in & out of school
- Juniors complete 30 hours of community service outside of school
- Seniors complete 20 hours of community service outside of the school

## English Courses

Course Title	Freshman Composition and Literature	Honors Composition and Literature	American Literature	Honors American Literature
Time Offered	Fall/Spring	Fall/Spring	Fall/Spring	Fall/Spring
Grades Offered	9th Grade	9th Grade	10th Grade	10th Grade
Course Length	18 weeks	18 weeks	18 weeks	18 weeks
Course Level	College Prep	Honors College Prep	College Prep	Honors
Prerequisites	NA	NA	Freshman Comp	Freshman Comp
Course Description	<p>Our goal is to gain an appreciation of literature through a study of short stories, novels, poetry, and drama. We will also study vocabulary in context and cover grammar with the intent of incorporating what has been studied into well-written paragraphs, essays, and creative pieces. Assignments will include written work produced in and out of class as well as reading homework. We will work to develop a real appreciation of the author's craft through analysis.</p>	<p>Our goal is to gain an appreciation of literature through a study of short stories, novels, poetry, and drama. We will also study vocabulary in context and cover grammar with the intent of incorporating what has been studied into well-written paragraphs, essays, and creative pieces. Assignments will include written work produced in and out of class as well as reading homework. We will work to develop a real appreciation of the author's craft through analysis. The students in this course will also complete a minimum of one outside novel and produce a research paper in order to learn MLA rules for writing, including citing works within a text.</p>	<p>This course is a survey of the literature of America from the colonial period to the present day. Grammar will be reviewed, and there will be an emphasis on expanding students vocabulary. Research skills will be introduced, culminating in a research paper. Students will develop and strengthen composition skills. All students in this courses are expected to work independently and in class toward a deeper understanding of the themes and movements of American literature. Outside reading includes novels by major American authors.</p>	<p>This course is a survey of the literature of America from the colonial period to the present day. Grammar will be reviewed, and there will be an emphasis on expanding students vocabulary. Research skills will be introduced, culminating in a critical analysis paper. In this course, an emphasis is placed on independent work, extensive reading, writing of research and critical essays, and thoughtful discussion in which students are expected to be active participants. Students in the honors course are required to read one more summer reading novel than college prep students and the honors students typically read drama that is of a higher text complexity level than the college prep course.</p>

## English Courses Continued

Course Title	British Literature	Honors British Literature	World Literature	Honors World Literature
Time Offered	Fall/Spring	Fall/Spring	Fall/Spring	Fall/Spring
Grades Offered	11th Grade	11th Grade	12th Grade	12th Grade
Course Length	18 Weeks	18 Weeks	18 Weeks	18 Weeks
Course Level	College Prep	Honors	College Prep	Honors
Prerequisites	American Literature	American Literature; Recommendation of previous English/Social Studies teacher and guidance counselor	British Literature	British Literature; Recommendation of previous English/Social Studies teacher and guidance counselor
Course Description	<p>This course uses literature, grammar, vocabulary, and writing, to survey a variety of themes found throughout all time periods of British Literature. These themes will cover literature from ancient times to modern times including Chaucer, Shakespeare, Swift, and Kipling. A variety of learning opportunities will be utilized throughout the course; Including, but not limited to, collaborative, independent, and lecture. This will guide students to a deeper understanding of the themes in literature and help develop the critical thinking skills that are so essential to a successful life.</p>	<p>This course uses literature, grammar, vocabulary, and writing, to survey a variety of themes found throughout all time periods of British Literature. These themes will cover literature from ancient times to modern times including Chaucer, Shakespeare, Swift, and Kipling. A variety of learning opportunities will be utilized throughout the course; Including, but not limited to, collaborative, independent, and lecture. Honors students are expected to keep up with a face-paced a rigorous curriculum that, while covering the same topics as College Prep British Literature, does focus more heavily on independent reading and writing, including a 3-5 page Synthesis Essay that synthesizes themes that were examined throughout the three major Shakespeare works that we looked at throughout the semester.</p>	<p>This course will look at literature, grammar, vocabulary, and writing. It will trace themes such as satire, choices, and thirst for knowledge. These themes will be examined using literature of the world from ancient times to modern times such as Joyce, Camus, Dante, and Kafka. A variety of learning opportunities will be utilized throughout the course such as, collaborative, independent, and lecture.</p>	<p>This course will look at literature, grammar, vocabulary, and writing. It will trace themes such as satire, choices, and thirst for knowledge. These themes will be examined using literature of the world from ancient times to modern times such as Joyce, Camus, Dante, and Kafka. A variety of learning opportunities will be utilized throughout the course such as, collaborative, independent, and lecture. Honors students are expected to keep up with a face-paced a rigorous curriculum that, while covering the same topics as College Prep World Literature, does focus more heavily on independent reading and writing, including a 10-15 page research paper covering a specific topic or theme that we have studied throughout our survey of World Literature. This research paper is meant to serve as a rigorous exemplar of the work that they have done throughout the semester, and should emulate a college style research paper.</p>

## English Courses Continued

Course Title	AP English Literature and Composition	AP English Language and Composition
Time Offered	Fall/Spring	Fall/Spring
Grades Offered	12th Grade	12th Grade
Course Length	36 weeks	36 weeks
Course Level	Advanced Placement	Advanced Placement
Prerequisites	Recommendation of counselor and teachers	Recommendation of counselor and teachers
Course Description	<p>The AP English Literature and Composition course will engage you in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, you can deepen your understanding of the ways writers use language to create meaning. You'll learn to consider a work's structure, style, and themes, as well as smaller-scale elements such as the use of figurative language, imagery, symbolism, and tone.</p>	<p>Further understand and appreciate the English language, particularly language used to analyze, persuade and synthesize. The students will study how language is used, learn vocabulary, and read writing that exemplifies various styles. Students will examine and comment on civil and political issues. They will study mainly non-fiction writing with the goal of articulate, deliberate, and precise speech and writing. In this course students will: write responses to essays on a weekly basis. Students will also work on essay writing, dissecting famous speeches, and synthesizing material into a coherent research paper. Students will refine their writing skills through constant revision and editing and be able to write in a variety of styles. They will learn to contribute articulately to class discussions. s precision and force.</p>

## **English Elective Courses**

Course Title	Creative Writing	Mythology
Time Offered	Spring	Spring
Grades Offered	12th Grade	12th Grade
Course Length	9 weeks	9 weeks
Course Level	Elective	Elective
Prerequisites	Successful completion of World Literature	Successful completion of World Literature
Course Description	<p>Students walk through the door into a community of writers, a workshop where value is placed on the written word, where the emphasis is on their creativity and on the myriad of ways they can make their voices, feelings, and imagination heard. Here students will create literature. They will work in a variety of genres: short fiction, poetry, drama, and memoir. The goal of this course is that students become lifelong writers. Creative writing celebrates the act of writing. Students are asked to dare to try. For many this course provides them with an opportunity to write a play or to read a poem aloud to a larger group or to put together a brief memoir. When they walk out of the course on the last day of class each has broken new ground in some way.</p>	<p>The purpose of the Mythology course is to introduce students to myths of the ancient world and demonstrate how they are the first forms of literature, how they illustrate shared human values, and how they continue to influence modern humankind. The two major goals are to become acquainted with the major themes and figures of the diverse world mythologies and to observe as many modern applications of these as possible (in art, drama, poetry, advertisements, popular culture, etc.). Emphasis is placed on reading, writing and speaking skills, as well as the development of a “mythic” vocabulary to analyze stories old and new.</p>

## **Business/Technology Courses**

Course Title	Entrepreneurship	Mobile CSP	Personal Finance	Web Design	Publishing
Grades Offered	11 & 12	11 & 12	12	11 & 12	12
Course Length	18 weeks	18 weeks	9 weeks	9 weeks	18 weeks
Course Level	non-leveled	Honors	Non-leveled	Non-levels	Non-leveled
Prerequisites	None	Algebra 1 grade of C+ (Geometry recommended)	None	None	Teacher Recommendation
Course Description	<p>This course is offered in conjunction with the Network for Teaching Entrepreneurship (NFTE). It takes students through the process of owning and operating a business. Entrepreneurship integrates the functional areas of business which include accounting, finance, marketing, management as well as the legalities involved in business ownership. Throughout the course students will work on various components of a business plan. By course end students will have completed a business plan</p> <p>Course Requirements: You are required to complete a written business plan and present it to the class. You will not pass this class without completing both components. Also throughout the course you will be required to take online assessments which NFTE uses to evaluate how the class is progressing. They will count as part of your grade. You are also required to register as an alumni of the class at the end of the term.</p>	<p>This course provides an introduction to basic principles of computer science (CS), including programming in App Inventor, a graphical programming language for Android mobile devices. This is a project-based course. Students will learn CS principles by building socially useful mobile apps and reflecting on the impacts of their work. This course is supported by the Mobile Computer Science Principles Project (Mobile CSP), an NSF-funded effort to provide a broad and rigorous introduction to computer science based on App Inventor, a mobile programming language for Android devices. The course is based on the College Board's emerging Advanced Placement (AP) Computer Science Principles curriculum framework for introductory computer science.</p>	<p>This course is designed to give students the tools to better manage their money and other financial resources now and in the future. For example, students may already use or may be considering the use of a credit card. The purchase of a car and a home are important financial goals. In these cases the wise use of financial resources can help, while misuse of money and credit can have serious negative consequences. Students will develop awareness and understanding of the financial tools needed to manage and increase earnings and savings – from making career decisions that directly affect the amount of their earnings to setting and achieving long-term personal goals.</p>	<p>Ever thought about creating a website that doesn't look like everybody else's? Then try web design as a class. Create your own templates to show your style. Use your own color schemes and page layouts. Amaze yourself with everything you can learn about web pages and websites in 9 weeks. You will learn the basics of HyperText Markup Language so you have a better understanding of how web design software works. We use Dreamweaver software to create the webpages for this course. Dreamweaver is a WYSIWYG (What You See Is What You Get) editor.</p>	<p>Using Lifetouch software and World Wide Web the class will construct Kolbe Cathedral High School's yearbook: Reflections. A project-based multimedia learning course; the class will be exposed to ethical and legal guidelines: copyright law and intellectual property rights law, for producing publications in print and online. Students will write stories and headlines, work with digital photography, design layouts and prepare pages for submission to the yearbook company.</p>

## **Business/Technology Courses (continued)**

Course Title	AP Computer Science Principles (CSP)
Grades Offered	11 & 12
Course Length	18 weeks
Course Level	AP
Prerequisites	Mobile CSP, Algebra II
Course Description	<p>The AP Computer Science Principles course is designed to be equivalent to a first-semester introductory college computing course. In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course engages students in the creative aspects of the field by allowing them to develop computational artifacts based on their interests. Students will also develop computational artifacts based on their interests. Students will also develop effective communication and collaboration skills by working individually and collaboratively to solve problems, and will discuss and write about the impacts these solutions could have on their community, society, and the world.</p>

## Mathematics Courses

Course Title	Algebra	Algebra 1	Honors Algebra 1	Geometry	Honors Geometry
Grades Offered	9	9 & 10	9 & 10	9 & 10	9 & 10
Course Length	36 Weeks	18 weeks	18 weeks	18 weeks	18 weeks
Course Level	CPR	College Prep	Honors	College Prep	Honors
Prerequisites	Pre-Algebra	Pre-Algebra	Honors Pre-Algebra/Teacher Recommendation	Algebra I	Honors Algebra I/Teacher Recommendation
Course Description	<p>Students will explore the basic skills of Algebra including operations of integers, solving equations from simple to complex, graphing linear and quadratic equations and inequalities. Students will apply the skills to real world applications using word problems.</p>	<p>This course in algebra begins with the concept of the variable, operations using positive and negative real numbers, and transforming equations. Students learn to represent situations that involve variable quantities with monomial and polynomial expressions, equations, and inequalities. They will explore and begin to model real-world situations using functions with emphasis in this course on the linear function. They will use tables and graphs extensively as tools to interpret data and for solving equations, systems of equations and inequalities.</p>	<p>Honors Algebra will explore the topics of the subject at a faster pace, with higher expectations for dependency and a more complex understanding of the applications of the subject to the world around us. This course in algebra begins with the concept of the variable, operations using positive and negative real numbers, and transforming equations. Students learn to represent situations that involve variable quantities with monomial and polynomial expressions, equations, and inequalities. They will explore and begin to model real-world situations using functions with emphasis in this course on the linear function. They will use tables and graphs extensively as tools to interpret data and for solving equations, systems of equations and inequalities.</p>	<p>Geometry focuses on developing students' knowledge and understanding of the basic postulates and theorems that are integral to plane geometry. Geometric proof is used to develop understanding of basic postulates and theorems. Students will learn to deduce properties of, and relationships between, figures from given assumptions, to classify figures in terms of congruence and similarity and apply these relationships. Area of plane figures and volumes of solids are studied. Students will represent problems with geometric models and apply properties of figures. Connections between geometry and algebra will be explored in particular through the use of transformations and coordinate geometry.</p>	<p>Honors Geometry will explore the topics of the subject at a faster pace, with higher expectations for dependency and a more complex understanding of the applications of the subject to the world around us. Geometry focuses on developing students' knowledge and understanding of the basic postulates and theorems that are integral to plane geometry. Geometric proof is used to develop understanding of basic postulates and theorems. Students will learn to deduce properties of, and relationships between, figures from given assumptions, to classify figures in terms of congruence and similarity and apply these relationships. Area of plane figures and volumes of solids are studied. Students will represent problems with geometric models and apply properties of figures. Connections between geometry and algebra will be explored in particular through the use of transformations and coordinate geometry.</p>

## Mathematics Courses Continued

Course Title	Algebra 2	Honors Algebra 2	Discrete Math	Pre-Calculus	Intro to Calculus
Grades Offered	10 & 11	10 & 11	11 & 12	11-12	12
Course Length	18 weeks	18 weeks	18 Weeks	18 weeks	18 week
Course Level	College Prep	Honors	College Prep	College Prep/Honors	Honors
Prerequisites	Algebra I	Algebra I	Algebra I, II, Geometry	Algebra I, II, Geometry	Algebra I, II, Geometry, Pre-Calculus
Course Description	<p>Algebra 2 is a course that continues the development of the students' understanding of Algebra 1 topics and the further development of basic computational skills. Greater emphasis is now placed on the interpretation of expressions, equations and inequalities. Linear equations and functions, systems of linear equations and inequalities, and quadratic equations are explored in detail through both manual interpretations of data and graphs and through the use of examples using a graphing calculator. Students will work with rational and irrational numbers, powers, roots and radicals and their applications.</p>	<p>Honors Algebra 2 will explore the topics of the subject at a faster pace, with higher expectations for dependency and a more complex understanding of the applications of the subject to the world around us. Algebra 2 is a course that continues the development of the students' understanding of Algebra 1 topics and the further development of basic computational skills. Greater emphasis is now placed on the interpretation of expressions, equations and inequalities. Linear equations and functions, systems of linear equations and inequalities, and quadratic equations are explored in detail through both manual interpretations of data and graphs and through the use of examples using a graphing calculator. Students will work with rational and irrational numbers, powers, roots and radicals and their applications. Emphasis is placed on developing an understanding of relations and linear, quadratic, and exponential functions and the real-world</p>	<p>This course is designed for the college bound student to build on algebraic and geometric concepts. It develops advanced algebra skills such as linear and quadratic functions, systems of equations, geometry, percent and interest, and probability and statistics. The content of this course are important for students' success on both the ACT and college mathematics entrance exams.</p>	<p>Precalculus combines the trigonometric, geometric, and algebraic techniques needed to prepare students for the study of calculus, and strengthens students' conceptual understanding of problems and mathematical reasoning in solving problems. Facility with these topics is especially important for students intending to study math, business, sciences and other quantitative disciplines at post-secondary level.</p>	<p>This course builds upon the student's study of functions, geometry, algebra and trigonometry and introduces the methods by which mathematics models motion and change in real life applications in science, engineering, medicine, economics, business, etc. The course begins with a review and analysis of functions and their graphs, then examines the concepts of limits and asymptotic and unbounded behavior. The concept of continuity as a property of functions is also examined. Students will learn and apply techniques for differentiation, the first pillar of calculus. Students will further analyze the relationship between a function and its first and second derivatives. The course concludes with the study of integration, the second pillar of calculus, and its applications in a variety of disciplines.</p>

## Music Courses

Course Title	Choir	Elements of Music	Music Technology
Grades Offered	9-12	9-12	9-12
Course Length	18 Weeks	9 Weeks	9 Weeks
Course Level	Music Elective	Music Elective	Music Elective
Prerequisites	N/A	N/A	N/A
Course Description	Students will develop music literacy and perform sacred and secular music at Mass and for events. The goal is to build a working proficiency of basic music vocabulary, proper vocal techniques, critical listening skills, and choral musicianship skills. Students will also increase understanding by experiencing, preparing, practicing, and performing.	Students will develop music literacy by incorporating music theory and ear training practices. The goal is to build a working proficiency in the elements of music. Students will develop the ability to identify, write, analyze, create, and evaluate music elements. Course includes: intro to music reading, intro to piano, 6 part drum lines, and creating new songs with technology!	Students will enhance their skills in the music arts and computer sciences by utilizing electronic devices and computer software (e.g. Garageband, Audacity, and Beatlab). Students will use these programs to dj, record, perform, store, analyze, and create new music.

## Religion Courses

Course Title	Old Testament	New Testament	Morality	Theology
Time Offered	Fall/Spring	Fall/Spring	Spring	Fall
Grades Offered	9	10	11	12
Course Length	18 weeks	18 weeks	18 weeks	18 weeks
Course Level	CP	CP	CP	CP
Prerequisites	n/a	n/a	n/a	n/a
Course Description	<p>This course will examine not only the books of the Old Testament, but the times in which they were written. We will attempt to find meaning and truths within the books which are applicable to modern times. We will begin to understand the roots of Christianity more deeply by analyzing the same words Jesus Christ heard when he was in the synagogue. The goal of the course; is to foster a deeper appreciation for the Old Testament when we begin to see not only its impact on Christianity and the Catholic Church, but on the world as a whole.</p>	<p>The purpose of this course is to better understand the New Testament and the meaning behind it. We are each called to actively live the Gospels in our daily lives yet we often believe that we are unable to. With a deeper understanding of the New Testament and the people who wrote it, we can draw strength from the examples of the saints, Blessed Mother and Jesus Christ himself. We will learn that the New Testament was written to be a, "living Gospel" and how those Gospels cannot thrive unless they are lived out in the daily lives of the people who read or hear them. The authors and people in the New Testament found themselves in incredibly difficult times. We will be able to draw strength from their example and hope from their faith and ultimately grow into a deeper relationship with Christ.</p>	<p>The class will explore morality in today's world with a focus on media, technology, world events, and the Catholic Church's teachings on morality and social justice. We will also explore the skills needed to form moral decisions through right reason, the example of Jesus, and the Church's teachings. Students will have an opportunity to learn the art of debate and persuasive writing.</p>	<p>Theology is defined as the study of the nature of God and religious belief. Through this course students will consider the nature of God as understood by the Catholic faith. The course will also touch on Christology (the study of Christ) and the nature of the Holy Spirit as the third member of the Trinity. This class will also consider the faith, traditions, and history of the Catholic church. The class will be formatted around the Socratic seminar method of discussion (The Socratic seminar is a formal discussion, based on a text, in which the leader asks open-ended questions. Within the context of the discussion, students listen closely to the comments of others, thinking critically for themselves, and articulate their own thoughts and their responses to the thoughts of others). Students will also have the time and space to continue to grow their own relationship with God.</p>

## Science Courses

Course Title	Chemistry	Honors Chemistry	Biology	Honors Biology	Environmental Science
Grades Offered	9th Grade	9th Grade	10th	10th	11th/12th
Course Length	18 Weeks	18 Weeks	18 weeks	18 weeks	18 weeks
Course Level	College Prep	Honors	College Prep	Honors	Not leveled
Prerequisites	N/A	N/A	Chemistry	Chemistry	Biology
Course Description	<p>What is fire? Why are some rocks different colors than others? Why does water evaporate into the air? Humans have been asking these types of questions for as long as we can remember, and the quest to provide answers for these questions forms the basis of chemistry. This course is designed to prepare students for a college-level chemistry course. Students will gain familiarity with laboratory skills, as well as with essential topics in chemistry. The course is organized around the following units: metals, gases, water, pollution, and food energy. Students will complete one or more laboratory experiments each week to assess their mastery of laboratory skills. In addition,</p>	<p>This course is designed to prepare students for a college-level chemistry course. Students will gain familiarity with laboratory skills, as well as with essential topics in chemistry. The course is organized around the following units: measurements, atoms, bonding, reactions, thermodynamics, gases, and acids and bases. Students will take short quizzes each week to assess their understanding. In addition, students will also complete one or more laboratory experiments each week to assess their mastery of laboratory skills. Honors Chemistry adds...</p> <ul style="list-style-type: none"> <li>Students will complete more complex and rigorous experiments,</li> </ul>	<p>Biology is the study of life. This course provides a guide that explains how your body works and what it means to be alive. Students follow important topics like energy, information, organization, and evolution to learn about the living world. Major topics covered are Cellular chemistry, Genetics, Evolution, and Energy transfer in organisms and ecosystems.</p>	<p>Biology is the study of life. This course provides a guide that explains how your body works and what it means to be alive. Students follow important topics like energy, information, organization, and evolution to learn about the living world. Students will be able to answer questions about themselves like: "Where did I come from? What is my body made of? How do I grow? Why do I look like my parents? How do I grow or heal? What is nutrition?" Course goals are to show students how their bodies function and how humans fit into all other life forms on earth - what is a human's connection to the natural world? Why should humans preserve natural areas and help to conserve diverse life forms? Major</p>	<p>A course that is trending more and more in today's rapidly changing world; environmentalism is becoming more important in politics and science, and students who enroll in this course can learn how they can become part of the solution. Environmental science teaches students what their place is in this world; how do we connect or relate to other plants or animals? How do humans rely on natural areas for services we might not appreciate or even know about? Students begin by learning about the natural world and how ecosystems are organized, and how these ecosystems are all threatened by human activity. Students will analyze past extinctions and the current loss of biodiversity to talk about its</p>

	<p>students will analyze non-fiction readings related to current topics in chemistry.</p>	<p>including the use of bunsen burners.</p> <ul style="list-style-type: none"> <li>● Students will complete statistical analysis of their results, including calculating standard deviation and significance.</li> <li>● Students will design and carry out their own experiment, presenting the results of which to a group of peers, teachers, and community figures.</li> </ul>		<p>topics covered are Cellular chemistry, Genetics, Evolution, and Energy transfer in organisms and ecosystems.</p>	<p>consequences and effect on humanity. Students will research the future of fossil fuels and future prospects for renewable energy sources, and how their lives will be affected in the very near future by this energy crisis. Students will learn about their "carbon footprint", and how every person can contribute to the solution or the problem; this course offers a solution for a possibly unsolvable problem - how can we save our planet, and why should we care?</p>
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## Science Courses Continued

Course Title	Physics	Honors Physics	Biology 2	Engineering 1
Grades Offered	11th and 12th Grade	11th and 12th Grade	12th Grade	10, 11, 12
Course Length	18 Weeks	18 Weeks	18 Weeks	18 Weeks
Course Level	College Prep	Honors	Honors	Elective
Prerequisites	Geometry, Algebra 1, Algebra 2	Geometry, Algebra 1, Algebra 2	Biology, Chemistry, Physics	Algebra 1
Course Description	<p>Physics is the science of relationships between matter, energy, and motion. This course will explore one and two-dimensional motion, forces and laws of motion, and potential and kinetic energy. This course includes experiments to reinforce the relationships between derived formulas and actual data. Topics include:</p> <ul style="list-style-type: none"> <li>- Units and their Conversions</li> <li>-Motion in One Dimension</li> <li>-Two-Dimensional Motion and Vectors</li> <li>-Forces and the Laws of Motion</li> <li>-Work and Energy</li> </ul>	<p>Physics is the science of relationships between matter, energy, and motion. This course will explore one and two-dimensional motion, forces and laws of motion, potential and kinetic energy, and momentum and collisions. This course includes experiments to reinforce the relationships between derived formulas and actual data. Topics include:</p> <ul style="list-style-type: none"> <li>- Units and their Conversions</li> <li>-Motion in One Dimension</li> <li>-Two-Dimensional Motion and Vectors</li> <li>-Forces and the Laws of Motion</li> <li>-Work and Energy</li> <li>-Momentum and Collisions</li> </ul>	<p>This course is designed to prepare students for a college-level biology or nursing course. Students will gain familiarity with laboratory skills, as well as with essential topics in anatomy and physiology. The course is organized around the following topics: bones, nerves, respiration, digestion, and movement. Students will take short quizzes each week to assess their understanding. In addition, students will also complete one or more laboratory experiments each week to assess their mastery of laboratory skills.</p>	<p>In Engineering 1, students study the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation used in the engineering field. Students will develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning. Used in combination with a teaming approach, APPB-learning challenges students to continually hone their interpersonal skills, creative abilities and understanding of the design process. It also allows students to develop strategies to enable and direct their own learning, which is the ultimate goal of education.</p>

## Social Studies Courses

Course Title	Western Civilization	Western Civilization	Geography & Regional Studies	Honors Geography & Regional Studies	AP Human Geography
Grades Offered	9th	9th	10	10	9/10
Course Length	18 Weeks	18 Weeks	18 Weeks	18 Weeks	18 Weeks
Course Level	College Prep	Honors	College Prep	Honors	Advanced Placement
Prerequisites					Teacher and Counselor Recommendations
Course Description	Trace the steps of Western human development from the earliest known human ancestors in Africa through the discovery of the Americas and the Enlightenment. Focus on human values and beliefs and explain how they have been shaped throughout history.	Trace the steps of Western human development from the earliest known human ancestors in Africa through the discovery of the Americas and the Enlightenment. Focus on human values and beliefs and explain how they have been shaped throughout history. Examine the features of civilization and draw conclusions about trends throughout history. Students will use higher order thinking skills to: identify cause and effect relationships, draw conclusions, evaluate, analyze primary source documents, compare and contrast. Students will demonstrate comprehension of lectures and textbook materials through written and oral summations.	In this course students examine the geography, cultures, politics, and world events of non-western/European regions such as the Middle East, Africa, India, China, Latin America and Japan. Greater emphasis will be placed on the analysis of primary sources, and the formulation of oral and written historical arguments.	In this course students examine the geography, cultures, politics, and world events of non-western/European regions such as the Middle East, Africa, India, China, Latin America and Japan. Greater emphasis will be placed on the analysis of primary sources, and the formulation of oral and written historical arguments. In this honors course, reading and writing will be stressed. Students will understand how to gather and interpret primary and secondary sources to write a series of well organized historical essays.	AP Human Geography introduces high school students to college-level introductory human geography or cultural geography. The content is presented thematically rather than regionally and is organized around the discipline's main subfields: economic geography, cultural geography, political geography, and urban geography. The approach is spatial and problem oriented. Case studies are drawn from all world regions, with an emphasis on understanding the world in which we live today. Historical information serves to enrich analysis of the impacts of phenomena such as globalization, colonialism, and human–environment relationships on places, regions, cultural landscapes, and patterns of interaction.

## Social Studies Courses Continued

Course Title	United States History	Honors United States History	AP US History
Grades Offered	11th	11th	11th
Course Length	18 Weeks	18 Weeks	36 Weeks
Course Level	College Prep	Honors	Advanced Placement
Prerequisites			Teacher and Counselor Recommendations
Course Description	<p>In this course students will examine United States History, focusing on the late nineteenth and twentieth centuries. Students will examine topics ranging from the rise of imperialism and industrialization, World Wars I and II, and the unrest and social changes of the 1960s &amp; 70s. Throughout the course students will analyze and draw conclusions from primary source documents, learn how to annotate effectively, evaluate points of view, and identify common themes throughout American history. Major assessments in the course include perfecting the writing process and composing essays incorporating information from multiple topics, researching people and places in history, and producing creative projects. The course will end with a final exam worth 20% of the final grade.</p>	<p>In this course students will examine United States History, focusing on the late nineteenth and twentieth centuries. Students will examine topics ranging from the rise of imperialism and industrialization, World Wars I and II, and the unrest and social changes of the 1960s &amp; 70s. This is Honors U.S. History class. Together we will be focusing on the 20<sup>th</sup> and 21<sup>st</sup> century events that have shaped our present day lives in America.</p> <p>Some, but not all of our class academic goals are: to discover that history is relevant to your own lives; to make connections between current events and historical events; to understand the concept of history as a continuing timeline of actions and reactions; to realize the global interconnectivity of the world's nations; to think critically; to analyze primary sources; to draw conclusions on past events; to make predictions based on facts and interpretations; write multiple essays from self-developed theses; and to utilize technology in your learning process.</p> <p>Honors students are expected to exhibit a high level of aptitude, effort, and independence on all assignments.</p> <p>The course will end with a final exam worth 20% of the final grade.</p>	<p>Advanced Placement U.S. History is a college-level introductory course which examines the nation's political, diplomatic, intellectual, cultural, social, and economic history from 1491 to the present. A variety of instructional approaches are employed and a college-level textbook is supplemented by primary and secondary sources.</p>

## **Social Studies Courses Continued**

Course Title	Psychology	Sociology	Democracy in America	African American	U.S. Legal
Grades Offered	12	11th and 12th	11th and 12th	10-12	10-12
Course Length	9 weeks	9 weeks	9 weeks	9 weeks	9 weeks
Course Level	Honors	College Placement	College Placement	College Placement	College Prep
Prerequisites					
Course Description	<p>Understand the role of the brain in behavior and mental processes. Examine the history and development of Psychology as a science. Understand the physical, cognitive and social development during adolescence. Examine the influence of people's environment on their thoughts and behaviors. Identify various psychological disorders, possible cause and treatments of certain disorders. Students will conduct internet research, journal and magazine research and independent reading to organize and carry out an experiment.</p>	<p>Sociology introduces students to the study of social behavior from an individual, group, institutional perspective. Students will examine the role of the individual as a member of primary and secondary groups, as well as a member of society. Students will explore key aspects of their culture such as norms, values and belief systems. Throughout the year, connections are made between the course content and the student's trade and technical program. Students will review sociological research, take part in discussions, demonstrations and exercises as well as engage in group projects. – Activities as designed to foster student understanding and awareness of important sociological concepts.</p>	<p>American Democracy is a one-quarter course that develops an understanding of the institutions of American government, including the founding principles established in the Constitution; the relationship between citizens and the government; the nature of civil society in a democracy; the three branches of government and the checks and balances between them; the relationships between federal, state, and local governments; landmark Supreme Court decisions that have shaped these principles and institutions; the nature of electoral contests; and the role of communications media in civic life.</p>	<p>In this course students will study the African American experience focusing on the periods of slavery, abolitionism, reconstruction, the early twentieth century, and the civil rights movement. To achieve this goal, students will analyze various sources including primary sources, secondary sources, and historical documentaries. Students will be expected to participate in class discussions and create a variety of creative projects such as an examination and creation of a slave narrative and an abolitionist newspaper.</p>	<p>This nine week elective course provides an overview of the laws of the United States and the processes of its legal systems. Some of the topics covered include: Introduction to Law, Constitutional Law, Criminal Law, Criminal Justice Process, and many aspects of Civil Law (including Torts and Family Law). Students are exposed to case studies, research, class discussion, guest speakers, current events, law in the media and television, mock trials, and more to help them gain a better understanding of law and the U.S. legal system as a whole.</p>

## Foreign Languages Courses

Course Title	CP Spanish 1	Honors Spanish I	Honors Spanish 2	Honors Spanish 3
Grades Offered	9-11	9-11	9-12	10-12
Course Length	18 Weeks	18 Weeks	18 Weeks	18 Weeks
Course Level	College Prep	Honors	Honors	Honors
Prerequisites			Honors I	Honors Spanish II - C+
Course Description	<p>Of central importance to this course is reading, writing, speaking and listening skills with a heavy emphasis on oral communication. Basic translations, basic grammar, sentence structure and essential vocabulary will be stressed. Students will be drilled in pronunciation; short dialogues(written and oral) ; verb conjugations of regular and irregular verbs in the present tense; and basic conversational skills in Spanish. There will be an emphasis on written assignments. Prayers will be learned and cultural aspects of Spanish speaking countries will be presented as an integral part of the course.</p>	<p>Of central importance to this course is reading, writing, speaking, and listening skills with a heavy emphasis on oral communications. Two formal oral presentations will be required. Basic translations, basic grammar, sentence structure and essential vocabulary will be stressed. Guided paragraph writing will be incorporated. Students will be drilled in pronunciation; short dialogues (reading and oral), verb conjugations of regular and irregular verbs in the present tense and basic conversational skills in Spanish. There will be an emphasis on writing. Prayers will be learned in Spanish and cultural aspects of Spain and Spanish-speaking countries will be presented as an integral part of the course.</p>	<p>While there will be more emphasis on conversational Spanish, the second year will continue with the presentation of reading, writing, translating, speaking and understanding skills. Among the grammatical points presented, the course includes regular and irregular verbs, and simple and compound tenses. Students will work on independent reports and projects. Oral presentations in the form of everyday conversations will aid the students in their understanding of the Hispanic culture and to work on conversational skills.</p>	<p>Spanish 3 expands student knowledge of the Spanish language through the five Foreign Language Standards: Communication, Cultures, Connections, Comparisons, and Communities. The goal of Spanish 3 is to provide students with the opportunity to acquire a more advanced level of communication, spoken and written, and to better understand Spanish-speaking cultures. Students will amplify their ability to communicate in the present, the present progressive, preterite and imperfect tenses, and will learn to communicate in the perfect tenses, future, conditional, as well as the present subjunctive tenses. Grammar will include a review of all pronouns, the uses of ser and estar, and an introduction to commands, the use of impersonal expressions and positive and negative words and expressions. Vocabulary will cover everyday routines, family celebrations and relationships, entertainment and types of movies, news events, travel and shopping. Third year students will expand their knowledge of Spain, Hispanic-speaking countries, and the Hispanic influence in the United States. Music and literature will also be included in the course.</p>

## Foreign Languages Courses Continued

Course Title	Spanish Honors 4	French 1	French 2	Advanced French 3	Advanced French 4
Grades Offered	11-12	9-12	10-11	10-12	11-12
Course Length	18 Weeks	18 Weeks	18 Weeks	18 Weeks	18 Weeks
Course Level	Honors	Honors	Honors	Honors	Honors
Prerequisites	Honors Spanish III - C+ (teacher recommendation)	None	French 1	French I, II	French I, II, III
Course Description	This course is a continuation of Spanish 3. Students will become proficient in speaking, reading, and writing the Spanish language while deepening their insight into Hispanic culture. This will be done through an exposure to works of Spanish and Hispanic literature. Vocabulary and structure concepts are taught through contextual exercises stimulated by a variety of reading selections.	This is a beginning level course. Students learn French vocabulary and grammar structures that are used in basic, everyday life situations, such as: school, hobbies, sport, food, family, vacation, work, and travel. The focus is put on 4 competencies: speaking, listening, reading and writing. The cultural component of French speaking countries is also introduced. Connections to and influences on the English or Spanish language are explored.	This is the second semester of elementary French for those who finished French 1. It is a rigorous study of essential grammatical structures and vocabulary required to efficiently communicate in basic everyday life situations. The focus will be put on four key language skills: listening, speaking, reading, and writing. Students will continue to learn to read and write in French as well as participate in and understand simple conversations on different topics. A cultural component of French speaking countries will also be introduced. Course objectives: By the end of the course, students should be able to express themselves orally and in writing using simple sentences, ask and respond to questions regarding daily activities and carry on simple conversations. They should also possess awareness of basic cultural features.	This is an upper intermediate level course for those who have passed French 2. Students develop and enlarge their French vocabulary for everyday life as well as grammar structures acquired during French 1 and 2. Advanced grammar concepts are introduced through text, paired speaking practice and translation. Awareness and appreciation for cultural differences are integrated with language study.	This is an advanced level course for students who have passed French 3. Emphasis is placed on higher-level grammar and conversational skills. French literature selections are used to practice reading comprehension, writing and translation.

## Health/Physical Education Courses

Course Title	Health	Physical Education
Grades Offered	9	9-12
Course Length	9 Weeks	9 Weeks
Course Level	N/A	N/A
Prerequisites	Required	Required
Course Description	<p>This course enables students to acquire the knowledge and skills necessary to promote the lifelong goals of health and wellness. The focus of the course is to empower each student with the capacity to obtain, interpret and understand basic health information and services, and apply that knowledge to make informed health enhancing decisions in their daily life. Content areas included within the study of Health Education would include the following: community health, consumer health, environmental health, family life (human sexuality, parenting, relationships, human growth and development), mental and emotional health, injury prevention, nutrition, personal health and fitness, prevention and control of disease, and substance use and abuse. Through the study of these conceptual areas, students will not only comprehend the principles related to health promotion and disease prevention, but will also be able to demonstrate their ability to use this knowledge in a healthful manner.</p>	<p>Students will learn the knowledge of the games that they are playing, teamwork, good sportsmanship, leadership skills and learn how to come up with strategies for each game. Students will also be giving a study guide on the first day of each new sport that we will be playing. On the study guide is the rules and how to play the game that is being taught and at the end of such sport they will be tested on it. Students will also be graded on group projects, Google classroom assignments, sports movies and sports documentaries that we watch as a class.</p>