



High School Course Catalog

High School Course Listing

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Language Arts 9 A&B Honors Language Arts 9 A&B Contemporary Novels Creative Writing A&B Speech	Language Arts 10 A&B Honors Language Arts 10 A&B Contemporary Novels Creative Writing A&B Speech	Language Arts 11 A&B Honors Language Arts 11 A&B Contemporary Novels Creative Writing A&B Speech	Language Arts 12 A&B Honors Language Arts 12 A&B Contemporary Novels Creative Writing A&B Speech
Math Essentials A&B Pre-Algebra A&B Algebra 1 A&B Honors Algebra 1 A&B Geometry A&B Honors Geometry A&B Consumer Math A&B Financial Literacy Integrated Math 1 A&B	Math Essentials A&B Pre-Algebra A&B Algebra 1 A&B Honors Algebra 1 A&B Geometry A&B Honors Geometry A&B Algebra 2 A&B Honors Algebra 2 A & B Pre-Calculus A&B Consumer Math A&B Financial Literacy Integrated Math 1 A&B Integrated Math 2 A&B	Math Essentials A&B Pre-Algebra A&B Algebra 1 A&B Honors Algebra 1 A&B Geometry A&B Honors Geometry A&B Algebra 2 A&B Honors Algebra 2 A & B Pre-Calculus A&B Calculus A&B Consumer Math A&B Financial Literacy Integrated Math 1 A&B Integrated Math 2 A&B Integrated Math 3 A&B	Math Essentials A&B Pre-Algebra A&B Algebra 1 A&B Honors Algebra 1 A&B Geometry A&B Honors Geometry A&B Algebra 2 A&B Honors Algebra 2 A & B Pre-Calculus A&B Calculus A&B Consumer Math A&B Financial Literacy Integrated Math 1 A&B Integrated Math 2 A&B Integrated Math 3 A&B
Biology A&B Honors Biology A&B Earth Science A&B Honors Earth Science A&B Physical Science A&B Aeronautics & Space Travel Anatomy & Physiology A&B Marine Science Medicine Paleontology Physics A&B Honors Physics A&B Renewable Energy Space Exploration	Biology A&B Honors Biology A&B Chemistry A&B Honors Chemistry A&B Earth Science A&B Honors Earth Science A&B Physical Science A&B Aeronautics & Space Travel Anatomy & Physiology A&B Marine Science Medicine Paleontology Physics A&B Honors Physics A&B Renewable Energy Space Exploration	Biology A&B Honors Biology A&B Chemistry A&B Honors Chemistry A&B Earth Science A&B Honors Earth Science A&B Physical Science A&B Aeronautics & Space Travel Anatomy & Physiology A&B Marine Science Medicine Paleontology Physics A&B Honors Physics A&B Renewable Energy Space Exploration	Biology A&B Honors Biology A&B Chemistry A&B Honors Chemistry A&B Earth Science A&B Honors Earth Science A&B Physical Science A&B Aeronautics & Space Travel Anatomy & Physiology A&B Marine Science Medicine Paleontology Physics A&B Honors Physics A&B Renewable Energy Space Exploration
American Government Honors American Government American History A&B	American Government Honors American Government American History A&B	American Government Honors American Government American History A&B	American Government Honors American Government American History A&B



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Honors American History A&B Civics Economics Honors Economics World Geography & Cultures A&B World History A&B Honors World History A&B Ethnic Studies Psychology A&B Sociology	Honors American History A&B Civics Economics Honors Economics World Geography & Cultures A&B World History A&B Honors World History A&B Ethnic Studies Psychology A&B Sociology	Honors American History A&B Civics Economics Honors Economics World Geography & Cultures A&B World History A&B Honors World History A&B Ethnic Studies Psychology A&B Sociology	Honors American History A&B Civics Economics Honors Economics World Geography & Cultures A&B World History A&B Honors World History A&B Ethnic Studies Psychology A&B Sociology
Health: Living Your Best Life Health: Mental Health & Well-Being Health: Sexuality & Gender First Aid Medicine Nutrition	Health: Living Your Best Life Health: Mental Health & Well-Being Health: Sexuality & Gender First Aid Medicine Nutrition	Health: Living Your Best Life Health: Mental Health & Well-Being Health: Sexuality & Gender First Aid Medicine Nutrition	Health: Living Your Best Life Health: Mental Health & Well-Being Health: Sexuality & Gender First Aid Medicine Nutrition
Physical Education A&B Individual & Team Sports Personal Fitness	Physical Education A&B Individual & Team Sports Personal Fitness	Physical Education A&B Individual & Team Sports Personal Fitness	Physical Education A&B Individual & Team Sports Personal Fitness
French 1 A&B French 2 A&B French 3 A&B	French 1 A&B French 2 A&B French 3 A&B	French 1 A&B French 2 A&B French 3 A&B	French 1 A&B French 2 A&B French 3 A&B
German 1 A&B German 2 A&B	German 1 A&B German 2 A&B	German 1 A&B German 2 A&B	German 1 A&B German 2 A&B
Spanish 1 A&B Spanish 2 A&B Spanish 3 A&B	Spanish 1 A&B Spanish 2 A&B Spanish 3 A&B	Spanish 1 A&B Spanish 2 A&B Spanish 3 A&B	Spanish 1 A&B Spanish 2 A&B Spanish 3 A&B
Art Appreciation Art History Basic Drawing Advanced Drawing Beginning Painting Beginning Piano Music Appreciation	Art Appreciation Art History Basic Drawing Advanced Drawing Beginning Painting Beginning Piano Music Appreciation	Art Appreciation Art History Basic Drawing Advanced Drawing Beginning Painting Beginning Piano Music Appreciation	Art Appreciation Art History Basic Drawing Advanced Drawing Beginning Painting Beginning Piano Music Appreciation

High School Electives

<p>Accounting. Aeronautics & Space Travel Augmented & Virtual Reality Applications Business Law Career Exploration in Dentistry Career Exploration in Finance Career Exploration in Healthcare Career Planning Character Education Child Development Cloud Technologies & the Internet of Things Computer Basics Cybersecurity Early Childhood Education A&B Entrepreneurship & Small Business Fundamentals of Bitcoin & Cryptocurrency Fundamentals of Blockchain & Cryptography</p>	<p>History of Gaming & eSports Introduction to Artificial Intelligence Introduction to Business Journalism LEED Green Associate Media and Communication Networking Personal Leadership Project Management Robotics: Applications & Careers Smart Cities: Technology & Applications Social Media Business Marketing Startups & Innovation Study Skills & Strategies Teaching as a Profession Transportation Technologies Wearable Technology Innovations</p>
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[See course descriptions on following pages](#)

Accounting

In this semester course of our online Accounting course, you will explore accounting, including investigating accounting careers. You will learn basic accounting skills and procedures both with and without a computer for general journals, general ledgers, cash payments journals, cash receipts journals, sales journals, accounts payable ledgers, and accounts receivable ledgers. You will also learn how to reconcile a bank statement and to prepare payroll records. This course covers the basic principles of financial accounting for individuals and for companies with attention to both the mathematical formulas and to the ethical side of accounting. Each unit has practical exercises including a project at the end of the unit.

Advanced Drawing

In Advanced Drawing, students will be reviewing basic drawing skills and the elements and principles of design, while exploring deeper how they are used in art. Students will also explore, in-depth, several different types of media and artistic styles in order to define their personal aesthetic and design their own compositions. In each section, students will observe and analyze various artworks to expand their knowledge of art history and develop their personal aesthetic. All projects in this course will be an original composition by the student. After instruction and research, students will be given prompts and guidelines on how to create each project, but the final outcome will be unique to each person. At the end of the last four modules, students will participate in either a self- or peer-critique. This is to help students learn to analyze their work and grow as an artist from the input of others. At the end of the course, students will compile and organize their artwork into a digital portfolio and write an artist statement. This can be used as a record of personal accomplishment or as an application to a secondary art program or job.

Aeronautics & Space Travel

This course introduces students to the history and near future of space travel. Students will explore the possibilities of moon bases, Mars colonies, and visiting the outer planets in our solar system and their moons. Students will also discuss important ethical and legal issues around space exploration, such as asteroid mining and war in space. The online Aeronautics course gives an expansive view of the technologies, science, and theories that will make far-fetched dreams into realities during the student's lifetime.

Algebra 1 A&B

Semester A - Algebra 1 (semester A) introduces students to the world of Algebra through expressions and equations. Students will evaluate algebraic expressions, solve linear equations and graph them. This course also steers students through various real-world scenarios with the emphasis on using basic statistics to interpret the information given and found. Students learn through online lesson materials, videos and interactive activities. The end of each unit tests students' understanding with a self-check quiz with feedback. Also included is a unit exam and project for students to apply what they have learned. Teacher feedback is provided throughout the semester.

Semester B - Algebra 1 (semester B) builds on the concepts learned in the first semester by providing a strong foundation in solving problems. Students will work with problems and applications that involve exponents, quadratic equations, polynomials and factoring methods, rational and radical equations, data analysis and probability. Students will interact with course materials through online lessons, videos, interactive questions and real-world applications. Each unit ends with a self-check quiz to confirm knowledge of the concepts learned. There is also a unit exam and project.

Algebra 1 Honors A&B

In the honors course, students will do in depth study, problem-solving and application of algebraic concepts. Semester A Honors Algebra 1 (semester A) introduces students to the world of Algebra through expressions and equations. Students will evaluate algebraic expressions, solve linear equations and graph them. This course also steers students through various real-world scenarios with the emphasis on using basic statistics to interpret the information given and found. Students learn through online lesson materials, videos and interactive activities. The end of each unit tests students' understanding with a self-check quiz with feedback. Also included is a unit exam and project for students to apply what they have learned. Teacher feedback is provided throughout the semester.

Semester B Honors Algebra 1 (semester B) builds on the concepts learned in the first semester by providing a strong foundation in solving problems. Students will work with problems and applications that involve exponents, quadratic equations, polynomials and factoring methods, rational and radical equations, data analysis and probability. Students will interact with course materials through online lessons, videos, interactive questions and real-world applications. Each unit ends with a self-check quiz to confirm knowledge of the concepts learned. There is also a unit exam and project.

Algebra 2 A&B

Algebra 2 (semester A) further extends the learner's understanding of major algebra concepts such as expressions, equations, functions, and inequalities. An emphasis will be placed on the use of appropriate functions to model real world situations and solve problems that arise from those situations. A focus is also on graphing functions by hand and understanding and identifying the parts of a graph.

Algebra 2 (semester B) builds on the concepts learned in the first semester and prepares the learners with the building blocks needed to dive deeper into trigonometry, pre-calculus and advanced probability and statistics.

Algebra 2 Honors A&B

This course further extends the learner’s understanding of major algebra concepts and prepares them with the building blocks needed to dive deeper into trigonometry, pre-calculus and advanced probability and statistics. Topics include radicals, quadratic functions and equations, polynomials, rationals, systems of equations and inequalities, exponents and logarithms, sequences and series, probability and statistics and trigonometry. In the honors course, students will do in depth study, problem-solving and application of algebraic concepts.

American Government

This course will guide students through an in-depth study of the history, structure, and guiding principles of American government. The first unit will review the origins of government in general and American government in particular—from the earliest models for democracy to the founding documents that created a federalist system of government in the U.S. Several units will help students explore the roles and responsibilities of each branch of government as well as the impact that the Constitution has had and continues to have on the way government works and on the lives of individual Americans. The course’s final unit will guide students through a series of projects that require them to apply what they have learned about American government to an issue that interests them.

American Government Honors

American Government Honors provides the student with the basic knowledge of the history and philosophy of the United States government, and the principles that guide our democracy. The student examines the United States Constitution to answer questions and determine the facts of government. The course focuses on the functions and duties of the three branches of government, which are the legislative, executive, and judicial. Special attention is given to political participation, the rights and responsibilities of citizenship, and government systems of the world. American Government Honors references the view of political institutions to explore the history, organization, and functions of the U.S. government. It offers students learning opportunities that build one on another. A goal of the course is for the student to develop the critical skills of analysis, synthesis, and evaluation in a demanding and thoughtful academic setting. Students are encouraged to use their knowledge of the organizations and management of governing to develop their own views on current political issues. Then the students are taught how to apply what they have learned into civic action. The course looks closely at the political knowledge and values of the country as it gives students a look into the problems faced by presidents, congressional representatives, and other political activists. It also covers the roles of political parties, interest groups, and the media in shaping the government. The Supreme Court is presented as the voice of reason in the balance of powers. Students are encouraged to perform at higher levels as they analyze historical documents and additional readings, work with a set of facts arranged by theme, become skillful in note taking, and join in student discussions. Students develop and demonstrate their writing skills by preparing extended research-based papers and through participation in community service.

American History A&B

Semester A: Creation of a Nation - This course covers the discovery, development, and growth of the United States. Major topics include American Indian cultures, European colonization of the Americas, and the causes and effects of the American Revolution. Geographical, economic, and political factors are explored as the key factors in the growth of the United States of America. American History I is a survey of the struggle to build the United States of America from the colonial period to the beginning of the twentieth century. By means of reading, analyzing, and applying historical data, students come to appreciate the forces that shaped our history and character as an American people. Not only are the topics of American history discussed, but students also explore research methods and determine accurate sources of data from the past. Knowing the facts and dates of history are just the beginning: each student must understand how history affects him or her.

Semester B: Expansion of a Nation - American History B begins with a study of American life before the 1929 Stock Market crash and how the Roaring Twenties influenced society in the late 19th through early 20th centuries. Students will examine the causes and consequences of the Great Depression and move on into a

detailed study of World War II with an emphasis on America's role in the conflict. The course continues with an analysis of the Cold War struggle and America's rise as a superpower. The Civil Rights and Women's rights movements, pollution and the environment, and American domestic and foreign policy will be examined. The course wraps up with a summary of current events and issues, including a study of the Middle East. This course begins with an assessment of life in United States pre World War I and ends with the conflicts of the new millennium. Students look at the nation in terms of economic, social, and political trends. The experiences of the last century are summarized, including a look into the civil rights issues that have embroiled the nation in conflict. The development of the United States of America into a superpower is explored within a global context.

American History Honors A&B

Semester A: American Foundation to the 1920s. American History A Honors helps students learn the story of the founding of North America by Europeans in the 1600s. A prevailing theme of the course is that America accomplished tasks that no other country had undertaken before. America broke away from Europe, established its own country with a Constitution that has given freedom to more people than any other country in the world, and settled a country by putting that Constitution into practice. The course ends with a study of America's emergence as a world power at the beginning of the 20th Century. Students will encounter primary and secondary source document investigations, biographies of key individuals, political cartoons, map studies, and period literature.

Semester B: Jazz Age to WWII. American History B Honors begins in the 1920s Jazz Age and ends in the 21st Century. Students will examine economic factors that lead to the Great Depression and World War II. The West's involvement in the Cold War, as well as the fall of the Soviet Union, will be covered in detail. America's rise as a world power is featured. The final unit of the course includes a study of the environment, modern presidential foreign and domestic policies, and the Middle East. Unit 30 includes a lesson designed to help students prepare for the final exam.

Anatomy & Physiology A&B

Semester A - The aim of this course is to expand upon what was learned in your Biology class, while emphasizing the application of this material to human structures and functions. This course begins the study of human beings at the microscopic level and works its way up to an in-depth study of select organ systems. Special emphasis will be placed upon applying and demonstrating the information learned in this course through, not only tests and quizzes, but through special projects and collaboration as well.

Semester B - Part B is designed to give the student an understanding of how structure and function are related in the human body. The student will study the human body from the cellular level to the organ system level. All of the major body systems will be studied in great detail. Additionally, biochemistry, cell biology, histology, biotechnology, bioethics, and pathology will also be studied. This course is highly recommended for students seeking a career in science or a health-related profession.

Art Appreciation

What makes an artwork a masterpiece? Why do artists create art? What is the difference between Rococo and Art Nouveau? In this course, students will discover the answers to these questions and more. We examine the elements of art and principles of design and explore how artists have used these elements and principles in the creation of art for centuries.

Art History

This Art History course integrates the four components of art study: art production, historical and cultural context, critical process and aesthetic process. Students will be able to identify and describe art from prehistoric times to modern time. Throughout this course, students will discuss various artworks, research artists, and create documents and presentations demonstrating concepts learned.

Augmented & Virtual Reality Applications

Separating hype from reality is hard... especially in the fast-growing and evolving space of augmented and virtual reality (AR/VR). Recent advances in technology have allowed AR/VR systems to become extremely sophisticated and realistic. This course introduces students to the technologies that underpin AR/VR systems. Then the course walks through 7 applications of AR/VR and how they will change and impact numerous aspects of our lives and the economy. Students will also learn about and discuss the risks and side effects of these systems, including health, privacy, and ethical implications.

Basic Drawing

In Drawing, students will experiment with several different art materials and tools to see what each tool can do best. Students will explore ordinary things around them to become more observant of the structures and meanings of things which can be seen in their home and community. Your work will be your own study of the forms, textures, movements, and patterns of the things that you see every day. Each project and each lesson is based on the one before it; so always do the lessons in the order they are given. Be sure to follow the directions exactly regarding which materials, sizes, and subject matter to use for each project. Each lesson will be a study of a new way of drawing. The examples given will show only the method and materials to be used, never the same subject or size as the project assigned. The examples are never to be copied. An example will only show one way of using the technique described. By becoming more observant, by experimenting with new materials, and by exploring a variety of methods, students will continue to grow in artistic skill and enjoyment. Beyond fundamental skills are various levels of creativity. Each lesson provides room for expressing the technical skill learned in a unique, creative way.

Beginning Painting

This course introduces students to classical and contemporary painting, techniques and concepts, with emphasis on the understanding of its formal language and the fundamentals of artistic expression. Painting from still life, landscape, and life models from observation will be geared towards realism; at the same time, various other painting styles could be explored. Color theory, linear perspective, compositional structure, figure/ground relationships, visual perception, spatial concepts, and critical thinking skills will all be emphasized. Students will study and research major painting styles and movements in historical context. The hope is that students will use this global approach to develop a “critical eye” in evaluation of contemporary painting. Acrylic and watercolors are the mediums used in this class. The main emphasis of this course is to encourage and nourish individuality and creativity.

Beginning Piano

Most of us have a desire to express ourselves in music. The piano is the logical medium to turn to because, through it, one can express one’s feelings through rhythm, melody, and harmony. Upon completion of this course, learners will identify and describe the development of sounds in music and perform with expression and technical accuracy in individual performances of a varied repertoire of music on a piano. Students will learn about parts of the piano. They will also learn the letter names of the notes used in piano playing and their placement on the keyboard. They will also gain an understanding of basic music theory. Students will then begin playing notes and chords on the piano. They will continue to develop these skills to be able to write and perform final versions of compositions. Students will need access to a piano during this course.

Biology A&B

Semester A - Biology A introduces students to the scientific method and the major concepts of biology from an historical and practical viewpoint. The three major themes of this course are the cell, the molecular basis of heredity, and the interdependence of organisms. Students who take this class will have a deeper appreciation for the complexities of living organisms. Life on this planet, unlike anywhere else in the observable universe, is complex and highly organized. Whether examining life on the molecular or the planetary level, it exhibits a highly organized structure that inspires awe by its genius and complexity. In the last 50 years, discoveries have launched new branches of biology that have transformed the daily routine, from conception to death. New

challenges await, such as the current crisis in ecology, global warming, and the resurgence in viral disease. To make rational choices in the 21st century, the citizen must have a basic understanding of biological concepts and the reasoning behind them. Biology A is presented in a multimedia format using interactive modules, labs, narrated animation, text, and videos to present the study of life on this planet. Students work through and complete several self-check activities and quizzes for practice and participate in self-reflection. In each unit, students complete the unit exam. Teacher feedback is provided throughout the course.

Semester B - Biology B is a continuation of the basic course in biology, Biology A. The major concepts covered are population dynamics and evolution. Students explore population dynamics through the study of mutualism, predation, parasitism, and competition. The theory of evolution is presented, along with the many evidences and details that make evolution the backbone of modern biology. From biochemistry to evolution, biology fascinates people. Biochemists first astounded the world by showing that life obeys the same chemical principles as all creation, but that life engineers chemistry to its own needs. Decades later, Darwin shocked the world by suggesting that life evolves according to the conditions of the environment it inhabits. Evolution, often debated and derided, has survived to become a key concept of biology. This second course in biology examines the wonder of life and its mechanisms. Students work through and complete several self-check activities and quizzes for practice and participate in self-reflection. In each unit, students complete the unit exam. Teacher feedback is provided throughout the course.

Biology Honors A&B

Semester A. The science of biology must begin with cell theory, including the structure, function, and chemistry of the cell. Cells form the primary level of organization of all living things. The chemistry and function of each cell shapes the lifestyle of the organism, from feeding to reproductive patterns. This first course in biology focuses on the life of the cell, dealing with issues of structure, transport, genetics, protein synthesis, energy production, and usage. The tools of science are explained and then focused on the living systems in the cell. In the case of genetics, the molecular behavior of DNA is elaborated to show how it determines the visible traits of the organism and population. Thus, you are led on a tour of living systems from the tiniest to the broadest levels of organization. During this tour, you will employ text, computer simulations, and hands-on investigation to verify each concept and make them relevant to what you see each day. The aim of this course is to guide you, the student, to see your world in biological terms, and then to expand your vision to contemplate current topics in biological research and application. Students work through and complete several self-check activities and quizzes for practice, and they participate in self-reflection. In each unit, students complete the unit exam. Teacher feedback is provided throughout the course. Honors students are expected to complete additional assignments throughout the course that build on the content provided. These assignments allow these students go above and beyond the curriculum content in creativity and application.

Semester B. Biology B is a continuation of the basic course in biology, Biology A. The major concepts covered are population dynamics and evolution. Students explore population dynamics through the study of mutualism, predation, parasitism, and competition. The theory of evolution is presented, along with the many evidences and details that make evolution the backbone of modern biology. From biochemistry to evolution, biology fascinates people. Biochemists first astounded the world by showing that life obeys the same chemical principles as all creation, but that life engineers chemistry to its own needs. Decades later, Darwin shocked the world by suggesting that life evolves according to the conditions of the environment it inhabits. Evolution, often debated and derided, has survived to become a key concept of biology. This second course in biology examines the wonder of life and its mechanisms. Students work through and complete several self-check activities and quizzes for practice and participate in self-reflection. In each unit, students complete the unit exam. Teacher feedback is provided throughout the course. Honors students are expected to complete additional assignments throughout the course that build on the content provided. These assignments, like evaluating population density or assessing their cardiovascular health, makes these students go above and beyond the curriculum content in creativity and application.

Business Law

Students learn about the American legal system. They examine ethics, court systems, criminal law, and law of torts. They examine how the court systems work together, and what misconduct results in going to court. It is important to also understand your consumer rights. As they progress through the online Business Law course, they will also gain an understanding, from a business perspective, what is right and wrong business actions and employment laws. As an employee or employer, it is important to understand the laws that protect the employee and employer. The study will focus on the formation of a business and the basic legal issues associated with each type of business.

Calculus A&B

This High School Calculus course is designed with the intent for students to incorporate the concepts of all previous math courses and expand upon these concepts with the implementation of limits. Emphasis is placed upon the multi-representational approach to calculus where problems and their solutions are explored and interpreted graphically, numerically, analytically, and verbally. Students will also be required to explain their answers in written form and will be asked to compare their written response to the grading rubric and explain why they feel they should receive that grade. Students are required to use graphing calculators. These calculators will be used in a variety of ways including multi-representation of equations (graphs and tables) and for conducting explorations with various functions and how different values change the look of the function.

Career Exploration in Dentistry

This course introduces students to the exciting and varied career opportunities in the dentistry profession, from dental assistants all the way up through oral surgeons. Students will review the history of dentistry globally and in the U.S., and will learn key dental terminology. The course will introduce the roles and tasks done as well as the skills and education required of nearly every member of the dental staff. Students will gain an understanding of what it takes to perform each position, and how they work together.

Career Exploration in Finance

This course introduces students to the challenging and lucrative world of finance. While “Wall Street” may still get a bad rap after the 2008 financial crisis, finance careers still remain highly sought after and can be highly rewarding. The course reviews key financial terms and examines various groups, positions, and roles within financial institutions. Students will learn about resumes, interviews, and networking. Students will also discuss ethics on Wall Street and the role of finance within society.

Career Exploration in Healthcare

This course introduces students to the exciting and varied career opportunities in the health care industry that will be in demand in their future. The course will introduce the roles and tasks, identify education and skills needed, identify responsibilities of roles which support or supervise their role, analyze legal and ethical responsibilities, limitations, and implications for each of these professions.

Career Planning

The online Career Planning course guides students through the essential elements of the career planning process and the development of a defined career plan. Students will consider the many factors that impact career success and satisfaction. Using a process of investigation, research, and self-discovery, students will acquire the understandings critical to the career planning process. Upon completion of the course, students will have created a practical and comprehensive college or career transition portfolio that reflects their skills and abilities, as well as their interests, values, and goals.

Character Education

This course teaches students practical skills for understanding and managing their emotions, setting goals and getting organized, understanding and getting along with others in our diverse world, and making good decisions.

Research shows that people who practice these skills have greater academic achievement as students and experience more success and satisfaction as adults.

Chemistry A&B

Semester A - Chemistry A introduces students to the science of chemistry beginning with exploring why scientists are interested in studying matter at a submicroscopic level. Students will continue to learn how scientific methods are used to understand the natural world and will continue to develop their skills in this area. Chemistry A covers topics in the characteristics of matter, atomic structure, chemical periodicity, chemical bonds and compounds, and chemical formula writing and naming. An algebra background is recommended because of the amount and type of math involved.

Semester B - Chemistry B builds on the concepts and skills learned in the first semester as students continue to explore the properties of matter and the changes it undergoes. Chemistry B covers topics in chemical reactions and stoichiometry, gases, thermochemistry, kinetics, equilibrium, acids and bases, organic chemistry, and biochemistry. An algebra background is recommended because of the amount and type of math involved.

Chemistry Honors A&B

Semester A. In this course, students will discover what chemistry is, and how it is used and found all around us. The importance of the scientific method to solve real world problems will be investigated. Knowledge will be gained in the following areas: types of matter, atomic structure, chemical periodicity, chemical formula writing and naming, chemical equations. This course will also stress the important relationship between math and science while studying measurement, metric system and stoichiometry. Students will use higher order thinking throughout the entire course.

Semester B. It follows the Chemistry 1 A course. In Chemistry 1 B, students will investigate chemical bonding, thermochemistry, and acids and bases. The importance of the scientific method to solve real world problems will be investigated. Knowledge will be gained in the following areas: organic chemistry, biochemistry, and nuclear chemistry. This course will also stress the important relationship between math and science. Students will use higher order thinking throughout the entire course.

Child Development

This course is designed to help prepare students for their responsibilities as parents and caregivers of children. Topics include prenatal care, growth and development through age six, teen pregnancy, maternal health, parenting skills, and child guidance.

Civics

In this course students will understand the significance of government, law, and politics. They will examine the United States foundational documents and how they shaped the United States government. Students will examine the purposes and functions of federal, state and local government, the justice system, political systems the environment, and the economy. Learners will evaluate their role and civic responsibility to their families, communities, and country including voting and being a productive member of society. Students will get to know leaders and influential people that have championed many causes including civil rights and the environment. Learners will also learn proper ways to interact in society including interpersonal skills and respecting differences in others including disabilities. Learners will follow a step-by-step approach for successfully completing each lesson, which includes textbook reading, interactive activities, supplemental reading, lecture, video clips, and Power Point presentations to enhance and reinforce learning. Learners receive frequent feedback from teacher and peers through discussions. By the end of the course students will have a deep understanding of their civic responsibilities as well as the difference one individual can make in society.

Cloud Technologies & the Internet of Things

First, we had the internet of computers. Then with the advent of email and social media, along with mobile technology, it became the internet of people. Today's world is increasingly becoming the

internet of things. With advances in battery power, sensors, and computer chips, more and more devices are being connected to the internet. This will allow them to be monitored, controlled, and used more effectively for people and businesses. The online cloud technologies course will examine the trends and opportunities surrounding the Internet of Things (IoT). Students will learn about the technologies, hardware, and software that underpin the Internet of Things. The course will examine a variety of end-market applications in our homes, businesses and cities. Finally, students will learn about the many career opportunities that the Internet of Things will enable.

Consumer Math A&B

This course focuses on the mathematics involved in making wise consumer decisions. Students explore the many ways in which mathematics affects their daily lives. The first semester will cover paychecks and wages, taxes, insurance, budgets, bank accounts, credit cards, interest calculations, and comparison shopping. Second semester topics include vehicle and home purchasing, investing, and business and employee management.

Contemporary Novels

For this course, students will read a set of novels and novellas that were written during the twentieth century and reflect themes common to contemporary literature, such as the ability of the human spirit to rise above seemingly impossible circumstances. Through creative projects and writing assignments, students will identify and analyze each novel's themes and also compare and contrast the novels' treatment of common themes. Please note that, like most contemporary literature, the novels assigned for this course contain realistic situations and language. In addition to the novels listed, each student will read another contemporary novel of his or her choosing that the instructor must approve. MLA (Modern Language Association) documentation is required on all papers submitted.

Creative Writing A&B

Semester A – At the beginning of the semester, students consider the importance of word play exercises in improving their facility with language while building a compelling and creative writing style. Focusing on word nuances and precision, later lessons guide students to write in a variety of short modes—including poetry, song lyrics, prose poetry, short stories, and creative nonfiction. There are several opportunities for peer review in this semester, during which students learn best practices for participating in writing workshops, and then revise their work using feedback from their peers.

Semester B – This semester focuses on longer works of fiction: short stories, plays, and novels. Students learn basic techniques of plot and character development along with strategies for creating suspense and building a theme, and they have opportunities to write in several different genres. Lessons cover a few special topics as well, including graphic novels, animation, comedy, and improvisation. Students apply what they have learned about writing workshops and revising to the longer pieces of writing they create for this semester.

Cybersecurity

In the online Cybersecurity course, students will learn about the practice of protecting networks, systems, and programs from digital attacks. They will better understand the aim of these attacks, such as destroying information, extorting money and resources, or disrupting business operations. They will learn about the challenges and opportunities that implementing cybersecurity measures can present. As attackers become more innovative, it is more important than ever to have effective cybersecurity channels in place to counter them. Students will learn about countermeasures and role recovery and their integral function in the cybersecurity realm. Additionally, students will learn what makes certain networks and systems more vulnerable to attacks. They will become adept at identifying potential viruses, worms, threats, and malware. The Cybersecurity course acts as a foundation on which to build extensive knowledge about threats to digital security.

Early Childhood Education A&B

Semester A - The Early Childhood Education course is designed to provide an overview of the expectations and roles of the early childhood educator. The course provides details about childhood development, health, nutrition, and guidance strategies to help students understand the exciting and unique opportunities that a career in early childhood education can offer. The course is intended to prepare students for challenges they may face, but to emphasize the rewards of being able to influence the life of a young child. The ability to offer support to children as they learn and grow is a point that is highlighted throughout each lesson.

Semester B - The Early Childhood Education Two course is designed to provide an overview of the professional expectations of being an early childhood educator. Throughout the course, students will learn about what it means to be a professional, including the significance of professional development in any educational role. They will review observational methods and the history of education in the United States, with a focus on early childhood and school-age programs. They will spend a significant portion of the course learning about the importance of Developmentally Appropriate Practice and how to implement DAP strategies. Designing physical, social, and temporal environments will also be a major focus of the course, as will developing relationships with families and communities to strengthen their position and knowledge.

Certification. This course prepares students for the Child Development Associate (CDA). Certification requires that students take both Early Childhood Education I and Early Childhood Education II. These courses prepare students for the preapplication phase of 120 hours of instruction in the core areas of focus. For more information on the application process, visit: <https://www.cdacouncil.org/credentials/apply-for-cda/cte-high-schools>.

Earth & Space Science A&B

Semester A - The first three modules of Semester 1 cover Scientific Inquiry, the Structure and Composition of the Universe, and the Features of the Solar System. Students learn the importance of scientific inquiry and how to communicate the results of scientific investigations. They then have material on the formation of the universe, including the Big Bang Theory, the motions of celestial objects, and stellar evolution. The third module covers material related to the Solar System, including features of the Sun and the planets and the movements of Earth. The second three modules of Semester 1 cover Weather, Climate, and Earth's Water Cycle. Students first learn in Module 4 about the atmosphere and clouds, as well as the factors that influence local and global climate. In Module 5 they continue by learning about weather and air masses, meteorology and storms. Module 6 then discusses the water cycle, including groundwater and ocean features, as well as water scarcity and pollution.

Semester B - The first three modules of Semester 2 cover the physical structure of the Earth and Earth's tectonic system, including the rock cycle, tectonic activity, and mountain building. It then covers weathering and erosion and soil formation. The next material in the course then addresses the concept of systems; it addresses the Earth as a system, feedback in systems, and Earth's major nutrient cycles. The second three modules of Semester 2 cover geologic history, including the evolution of Earth's atmosphere, the geologic time scale, and the fossil record. It then goes over natural resources and the effects of human population on natural resources. The course wraps up with a discussion of human society and its interconnectedness with the Earth's environment, how science and technology work together, and the technological design process in earth science applications.

Economics

This course introduces the principles and the applications of economics in everyday life. Students develop an understanding of limited resources and compare it with unlimited wants and needs. Students learn how individual and national economic decisions are made to allocate goods and services among competing users. Students apply economic principles to think and problem solve. The study of Economics uses the view of economic institutions and policies to explore the history, organization, and functions of the U.S. government in

controlling our economy. It offers students learning opportunities that build one on another. A goal of the course is for the student to develop the critical skills of analysis, synthesis, and evaluation in a demanding and thoughtful academic setting. Students are encouraged to use their knowledge of the policies and institutions of economics to develop their own views on current economic and monetary issues. They are taught how to apply what they have learned into personal financial activities. The course looks closely at the economic knowledge and values of the country and gives students a look into the problems faced by presidents, and congressional representatives. It also covers the roles of political activists, political parties, interest groups, and the media in shaping the U. S. economy. The Supreme Court is presented as the voice of reason in the balance of powers. Students are encouraged to perform at higher levels as they are presented with historical documents and additional readings, work with a set of facts arranged by theme, become skillful in notetaking, and join in student discussions. Students develop and demonstrate their writing skills by preparing extended research-based papers.

Economics

Economics Honors provides the student with basic knowledge of the history and philosophy of the United States economy and the economic principles that guide our democracy. Students demonstrate problem solving, and their understanding of the processes for economic reasoning, by applying economic principles to decisions they make as consumers, workers, and members of local and larger societies. This, in turn, enables the student to understand the issues and public policies that affect economic, political, and cultural systems. The course focuses on the functions and duties of the three branches of government, which are the legislative, executive, and judicial as they relate to the economy. Special attention is given to the role of the Federal Reserve System in administering the United States economy.

Entrepreneurship & Small Business

This course will prepare students for certification in Entrepreneurship and Small Business. The modules are designed to cover all aspects of entrepreneurship including traits of successful entrepreneurs, business management, hiring employees, creating a company culture, managing finances, and marketing products and services. Each module will challenge students to put themselves in the role of an entrepreneur and consider how they will handle the extensive responsibilities of starting a business.

Ethnic Studies

Ethnic Studies is designed to help students to develop a more complex and nuanced understanding of the human experience as it relates to ethnicity, including the factors that influence individual and collective identity. Early lessons in the course guide students to build a conceptual framework for studying ethnicity and ethnic groups, based on the relationships among identity, ethnicity, race, and nationality. At the beginning of the course, students will analyze how cultural assumptions and biases influence both individual identity and people's perceptions of others. Additionally, lessons about the origins of culture in early civilizations and the ways that humans organized themselves socially as populations increased will provide background knowledge that students need to study ethnicity in the United States. Later lessons introduce the histories and cultures of specific ethnic groups in the United States and help students understand how identity and experience are sometimes shaped by belonging to these groups. Students will then investigate factors that lead members of different ethnic groups to immigrate to the United States and consider how these groups and their cultures have shaped American society. Students will also analyze the power structures that impact the lived experiences of Americans in various ethnic groups, identifying patterns of oppression and resistance throughout each group's history. Throughout the course, students are encouraged to identify and appreciate aspects of their own identity as well as the cultures, strengths, achievements, and values of the major ethnic groups in the United States. A key feature of the course is the emphasis given to the perspectives of individuals from historically marginalized groups that are rarely represented in textbooks. The goal is to add these voices to the larger historical narrative so that students can see themselves and all of their classmates as vital parts of the American story.

Financial Literacy

This course is designed to help students budget, keep a checkbook and filing system, deal with debt and credit, and become wiser consumers. Students will learn how money and the dynamics surrounding it affect their relationships, their lifestyles, and their retirement.

French 1 A&B

French 1 focuses on developing listening skills by repeated exposure to the spoken language. Speaking skills are encouraged through recommended assignments using voice tools. Reading and writing skills, as well as language structures, are practiced through meaningful, real-life contexts. The use of technology enhances and reinforces authentic language development and fosters cultural understandings through exposure to native speakers and their daily routines.

French 2 A&B

Semester A - Semester A focuses on the continuation and enhancement of language skills presented in Level 1. Vocabulary and grammar structures are revisited and expanded to provide students an opportunity to move towards an intermediate comprehension level. Speaking and listening skills are enhanced through recommended real-life voice activities. Listening skills are honed through online dialogues. Reading and writing skills are developed through access to completion of meaningful activities, reading of culturally related articles of interest and responding to reading in the target language. The use of technology enhances and reinforces authentic language development and fosters cultural understandings through exposure to native speakers and their daily routines.

Semester B - Semester B continues the enhancement of language skills. Vocabulary and grammar structures are revisited and expanded as students explore other French-speaking areas. Speaking and listening skills are enhanced through recommended real-life voice activities. Listening skills are honed through online dialogues. Reading and writing skills are developed through access to completion of meaningful activities related to travel, to the Olympics, to natural disasters, and to the space program. Reading of culturally related articles of interest and responding to reading in the target language, along with the use of technology, reinforces authentic language development and fosters cultural understandings through exposure to native speakers and their daily routines.

French 3 A&B

Semester A contains 6 (six) modules. Each module contains 10 (ten) lessons. The purpose of the French 3 course is to further students' language acquisition and to provide students with the necessary skills and intercultural understanding to enable them to communicate successfully in an environment where French is spoken. This course is based on the ACTFL standards and provides students with opportunities to expand their listening, speaking, reading, and writing skills as they create with the language and access various materials on generally familiar topics. Students identify the main idea(s) and details in texts, dialogues, and videos within a cultural context. They read and interpret authentic materials. They read, speak, write, and listen to short cohesive passages in the present, past, and future times. Students extend their knowledge and understanding of the target language and culture(s). They learn the interrelationship of other cultures to their own, by identifying behaviors appropriate in target cultures. Students will have a Module exam after each Module and will finish the semester with a semester exam.

Semester B contains 6 (six) modules. Each module contains 10 (ten) lessons. The purpose of the French 3 course is to further students' language acquisition and to provide students with the necessary skills and intercultural understanding to enable them to communicate successfully in an environment where French is spoken. This course is based on the ACTFL standards and provides students with opportunities to expand their listening, speaking, reading, and writing skills as they create with the language and access various materials on generally familiar topics. Students identify the main idea(s) and details in texts, dialogues, and videos within a cultural context. They read and interpret authentic materials. They read, speak, write, and listen to short cohesive

passages in present, past, and future times. Students extend their knowledge and understanding of the target language and culture(s). They learn the interrelationship of other cultures to their own, by identifying behaviors appropriate in target cultures. Students will have a Module exam after each Module and will finish the semester with a semester exam.

Fundamentals of Bitcoin & Cryptocurrency

In this course, students will learn all about bitcoin, including its history, development, and context within the modern global economy. Students will learn the basic cryptographic principles that underlie bitcoin and gain confidence by demonstrating strong security principles in storing and transacting bitcoin. Key principles such as mining, wallets, and hashing will be introduced. Finally, they will be familiarized with the nascent industry of digital currencies and how they function.

Fundamentals of Blockchain & Cryptography

Blockchain seems to be the latest buzzword that the business world is taking about. But what is it? And why should a high school student care? This course will seek to answer those questions. It will strip away the layers of complexity and sophistication to help students understand the key concepts of the blockchain. The course will introduce and discuss applications where blockchain has the greatest potential.

Geometry A&B

Semester A - Geometry is the study of the measurement of the world. What makes Geometry so engaging is the relationship of figures and measures to each other, and how these relationships can predict results in the world around us. Through practical applications, the student sees how geometric reasoning provides insight into everyday life. The course begins with the tools needed in Geometry. From these foundations, the student explores the measure of line segments, angles, and two-dimensional figures. Students will learn about similarity, triangles and trigonometric ratios. Geometry A consists of six modules. Each module comprises ten lessons for a total of 60 lessons in the course.

Semester B - This course builds on the foundation of the first terms in Geometry. As in previous courses, deductive and inductive reasoning are emphasized, while applying problem-solving techniques to real-world problems. Students explore quadrilaterals and circles, and learn how an object is transformed, as well as how to represent that transformation algebraically and geometrically. Students calculate area and volume of 2-dimensional and 3-dimensional objects. Geometry B consists of six modules. Each module comprises ten lessons for a total of 60 lessons in the course.

Geometry Honors A&B

Semester A. Geometry Honors is the study of the measurement of the world, with a focus on application of geometric concepts. What makes Geometry so engaging is the relationship of figures and measures to each other, and how these relationships can predict results in the world around us. Through real-world applications, the honors student sees how geometric reasoning provides insight into everyday life. The course begins with the tools needed in Geometry. From these foundations, the student explores the measure of line segments, angles, and two-dimensional figures. Students will learn about similarity, triangles and trigonometric ratios. Geometry A consists of six modules. Each module comprises of ten lessons for a total of 60 lessons in the course. Honors students are expected to complete several assignments within each module that demonstrate their knowledge of the applications of geometry.

Semester B. This course builds on the foundation of the first terms in Geometry. As in previous courses, deductive and inductive reasoning are emphasized, while applying problem-solving techniques to real-world problems. Students explore quadrilaterals and circles, and learn how an object is transformed, as well as how to represent that transformation algebraically and geometrically. Students calculate area and volume of 2-dimensional and 3-dimensional objects. Geometry B consists of six modules. Each module comprises ten lessons for a total of 60 lessons in the course. Honors students are expected to complete several assignments within each module that demonstrate their knowledge of the applications of geometry.

German 1 A&B

Semester A - This German 1A course is an introductory course teaching basic comprehension and communication in German. It coordinates the study of language with culture through the use of video, audio and mass media production. This course assumes prior or no knowledge of the German language. It introduces the fundamentals of conversational and grammatical patterns of the German language with presentations to present the material. Students who complete the course successfully will begin to develop a functional competency in the four primary language areas: speaking, reading, listening and writing, while establishing a solid grammatical base and exploration into German culture.

Semester B - The second semester course will expand on the knowledge gained from German 1A and further develop their skills in pronunciation, grammar skills, grammar structures and vocabulary. Oral practice (via Voice Tools), homework assignments, games, songs, watching videos, quizzes, tests, projects and other activities such as writing wikis and journal entries, will be emphasized to accomplish this goal. The different cultures of the German-speaking world are emphasized through readings, videos and other activities. Taking the time to learn another language is a mind-expanding activity that can open up a world of opportunities and advantages.

German 2 A&B

Semester A - In this course, students build on grammar and language skills that they acquired during their German 1A and 1B courses. While reviewing basic grammar skills, (present and past tenses), students learn and study stem-changing verb conjugation and explore cultural themes regarding current events, famous German people, music and famous festivals.

Semester B - In the second semester course, students increase their proficiency in being able to communicate by forming more complex German sentences in a variety of tenses using all four cases (Nominative, Accusative, Dative and Genitive). The variety of topics increases also, from exploring different careers to discussing relationships. Cultural themes are entwined throughout this course related to going shopping, to going to the zoo and also to travel throughout the German-speaking world.

Health: Living Your Best Life

Students begin this life course by exploring the different dimensions of good health and ways they can take charge of managing their health. The semester continues with a focus on good nutrition and safe food preparation and handling. Then, students take an in-depth look at the elements of physical fitness and its importance across the lifespan. A discussion of infectious and noninfectious diseases follows, with an emphasis on preventing disease. Students then investigate substance use and abuse, their effects on health, and ways to avoid or quit using. The course concludes with a focus on community and environmental health along with safety in the home, school, and community. A minimum grade level of 9th grade is suggested.

Health: Mental Health & Well-Being

Students begin by exploring the different dimensions of healthy intra-and interpersonal relationships. They next examine stress and the importance of learning to manage it. Next, students are introduced to the concept of neurodiversity and some of the characteristics of neurodiverse people. A discussion of mental health, mental illness, and suicide prevention follows. Students then explore the short-and long-term effects of violence on health and look at ways to prevent or reduce violence. The semester concludes with an overview of end-of-life care, death and dying, and the grieving process. A minimum grade level of 9th grade is suggested.

Health: Sexuality & Gender

This health course begins with a discussion of human development, concepts related to gender and sex, and a brief introduction to human sexuality. Students then explore the anatomy and physiology of the male and female reproductive systems and of human reproduction. Next, students investigate evidence-based information about abstinence and contraception. A discussion of sexually transmitted infections and their prevention and treatment/management follows. Students examine the changes that occur in the mother and

fetus throughout pregnancy. The course ends with a basic introduction to childbirth and a discussion of parenting and other choices available to teenage parents. A minimum grade level of 9th grade is suggested.

History of Gaming & eSports

In this course, students will learn about the technologies and design principles that have been the foundation of the development of video game technology over the last 50 years. Students will examine and discuss the impact of video games on culture and the economy. Students will learn about the current gaming and e-sports landscape, including strategies and techniques of top teams and individuals. This course will also discuss the risks and dangers of video games and understand how to set appropriate time and content parameters. Finally, the course will identify career paths and opportunities for those who are passionate about gaming.

Individual & Team Sports

To improve and maintain optimum health, it is necessary for people of all ages to participate in physical exercise. There is little doubt that, in addition to students in schools, the number of adults participating in sports and recreational activities in the United States has increased in recent years. Physical education is much more than just fitness and exercise. A well-planned program will cause you to think and express your emotions about different situations. In addition, a good program can make a valuable contribution to your education. These experiences will help you develop a sense of wellness. Emphasis in this course is placed on the value of these sports as possible lifetime activities and on creating a clear explanation of the rules and basic principles of a variety of sports. The sports covered in this course are archery, bicycling, golf, skiing, tennis, volleyball, baseball, basketball, football, hockey, and soccer. Information about the playing area and equipment, basic rules, safety considerations, and terminology for each sport are included in the discussions. For the most part, the information presented in each lesson applies to sports programs throughout most sections of the United States.

Integrated Math 1 A&B

In Integrated Math 1, students use arithmetic properties of subsets of integers and rational, irrational and real numbers by simplifying expressions, solving linear equations and inequalities, graphing equations, finding the equation of a line, working with monomials and polynomials, and factoring and completing the square. Students use properties of the number system to judge the validity of results, justifying each step of the procedure to prove or disprove statements. Students compute perimeter, circumference, area, volume and surface area of geometric figures. Students also use basic trigonometric functions defined by the angles of a right triangle.

Integrated Math 2 A&B

Semester A - Students begin the course learning about the algebraic concepts of functions, equations, inequalities, and complex numbers. They explore exponential and radical expressions, work with polynomials, and apply their knowledge to real-world problems by using algebraic expressions, pictorial and symbolic representation.

Semester B - Students begin this course by studying probability and then transition into the study of logic and geometric proofs. They continue their geometry study of triangles, parallel and perpendicular lines and angles, and then transition into the study of trigonometric ratios and the application of trigonometry. This course ends with a comprehensive look at circles.

Integrated Math 3 A&B

Semester A - This course blends algebra, geometry, number and quantity, functions, modeling and statistics and probability into one course. Students begin the course learning about the algebraic concepts of functions, equations, logarithms, and graphs and then transition into triangle and trig ratios. They dive into rational functions and sequences and series.

Semester B - In this semester, students begin by studying counting methods, probabilities, distributions, area, volume, parabolas, circles, ellipses, hyperbolas and systems of equations and inequalities. They finish their course of study learning about trigonometry functions and identities.

Introduction to Artificial Intelligence

This course teaches what every student should know about Artificial Intelligence. AI is a fast-moving technology with impacts and implications for both our individual lives and society as a whole. In this course, students will get a basic introduction to the building blocks and components of artificial intelligence, learning about concepts like algorithms, machine learning, and neural networks. Students will also explore how AI is already being used, and evaluate problem areas of AI, such as bias. The course also contains a balanced look at AI's impact on existing jobs, as well as its potential to create new and exciting career fields in the future. Students will leave the course with a solid understanding of what AI is, how it works, areas of caution, and what they can do with the technology.

Introduction to Business

This course introduces students to the basic business concepts that will help them understand how a business survives in today's economy and the role that consumers play in the same economy. Students will learn how to balance a checkbook, save for the future, and use credit wisely. Students will also learn how to create a resume and how to participate in a job interview.

Journalism

This course is designed to prepare you to become a student of journalism and media. The work we do here will equip you with the critical skills you must have to succeed in high school media, college media, and beyond. We will read a variety of journalistic material and do a great deal of news writing. We will also look at journalism from legal, ethical, and historic vantage points. Expect to complete numerous writing activities in a variety of styles including editorial, hard news, feature, review, and more. If you participate actively, you will gain tremendous skills that will serve you for the rest of your life. Individual and group project will also be a part of this class. This course is a project-based course and does not include traditional tests, unit level understanding is assessed through unit projects.

Language Arts 9 A&B

Semester A - English for grade 9 is an integrated curriculum. Each unit contains thematically related lessons in five domains: reading and the study of literature, reading informational text, writing, speaking and listening, and language study, which includes word knowledge and grammar skills. Topics are presented in ways that help young adolescents relate literacy skills to other aspects of their lives. Writing assignments include narrative, expository, and persuasive/argumentative modes and emphasize the use of and details and reasoning to support ideas. Speaking and listening lessons in Semester A emphasize collaborative discussion skills and peer review. Vocabulary development instruction is integrated into literature and informational text lessons. Each unit ends with an authentic assessment that presents students with a real-world scenario requiring some of the skills they learned in the unit.

Semester B - Like semester A, semester B consists of integrated units focused on a theme or mode of study. Literature study in semester B focuses on the analysis of different forms of literature and on comparative studies of world literature and literature delivered in different media. Writing and informational text lessons guide students through the stages of research and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations.

Language Arts 9 Honors A&B

Semester A. English Honors for grade 9 is an integrated curriculum with challenging assignments aimed at preparing Honors-level students for advanced work in the study of literature and language arts. Each unit contains thematically related lessons in five domains: reading and the study of literature, reading informational text, writing, speaking and listening, and language study, which includes word knowledge and grammar skills. Topics are presented in ways that help young adolescents relate literacy skills to other aspects of their lives. Writing assignments include narrative, expository, and persuasive/argumentative modes and emphasize the use

of and details and reasoning to support ideas. Speaking and listening lessons in Semester A emphasize collaborative discussion skills and peer review. Vocabulary development instruction is integrated into literature and informational text lessons. Each unit ends with an authentic assessment that presents students with a real-world scenario requiring some of the skills they learned in the unit. Assignments that are specific the Honors level of this course ask students to apply advanced skills earlier in the course and more often than students in the regular version of English 9. For example, students move immediately beyond the identification of literary elements or aspects of informational text to the analysis of these components. Likewise, Honors students don't simply recognize and describe rhetorical strategies—they also use these strategies to create specific effects. Some Honors assignments require students to go one step farther in developing an assignment—for instance, writing an essay after generating ideas for the essay using the worksheet provided to students in the regular course. Clear and extensive guidelines are provided for each Honors assignment along with a detailed rubric for evaluation.

Semester B. Like semester A, semester B of English 9 Honors consists of integrated units focused on a theme or mode of study. Literature study in semester B focuses on the analysis of different forms of literature and on comparative studies of world literature and literature delivered in different media. As in Semester A, Honors assignments in this semester require students to take a more analytical or active approach to many of the assignments and activities in the course. Honors students will write more often and more deeply about topics and also reflect more critically on the processes they use to read and write. Writing and informational text lessons guide students through the stages of research and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations.

Language Arts 10 A&B

Semester A - English for grade 10 is an integrated curriculum, with each unit consisting of thematically related lessons in five domains: analyzing literature, analyzing informational text, writing, speaking and listening, and language study, which includes word knowledge and grammar skills. The skills that students practice for this course are similar to the skills in English 9 but require more independence and depth of thought. An introductory lesson at the start of each unit helps students identify any areas of weakness and review those topics before starting the more challenging grade 10 lessons. Writing assignments required in Semester A of this course include fiction, expository, and persuasive, and analytical modes, emphasizing the use of details, evidence, and reasoning to support ideas. Speaking and listening lessons in Semester A cover collaborative discussion skills, the peer review process, and how to plan and deliver informative speeches and presentations. Vocabulary development instruction is integrated into literature and informational text lessons. Each unit ends with an authentic assessment that presents students with a real-world scenario requiring some of the skills they learned in the unit.

Semester B - Like semester A, semester B consists of integrated units focused on a theme or mode of study. Literature study in semester B focuses on the analysis of different forms of literature and as well as the evaluation of various modes and forms of writing. Writing and informational text lessons guide students through the stages of a rigorous research process and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations.

Language Arts 10 Honors A&B

Semester A. English 10 Honors is an integrated curriculum consisting of thematically related lessons in five domains: analyzing literature, analyzing informational text, writing, speaking and listening, and language study, which includes word knowledge and grammar skills. The course provides challenging assignments aimed at preparing Honors-level students for advanced work in the study of literature and language arts. An introductory lesson at the start of each unit helps students identify any areas of weakness and review those topics if needed. Writing assignments required in Semester A of this course include fiction, expository, and persuasive, and

analytical modes, emphasizing the use of details, evidence, and reasoning to support ideas. Speaking and listening lessons in Semester A cover collaborative discussion skills, the peer review process, and how to plan and deliver informative speeches and presentations. Vocabulary development instruction is integrated into literature and informational text lessons. Each unit ends with an authentic assessment that presents students with a real-world scenario requiring some of the skills they learned in the unit. Assignments that are specific the Honors level of this course ask students to apply advanced skills earlier in the course and more often than students in the regular version of English 10. For example, students move immediately beyond the identification of literary elements or aspects of informational text to the analysis of these components. Likewise, Honors students don't simply recognize and describe rhetorical strategies—they also use these strategies to create specific effects. Some Honors assignments require students to go one step farther in developing an assignment—for instance, writing an essay after generating ideas for the essay using the worksheet provided to students in the regular course. Clear and extensive guidelines are provided for each Honors assignment along with a detailed rubric for evaluation.

Semester B. Like semester A, semester B consists of integrated units focused on a theme or mode of study. Literature study in semester B focuses on the analysis of different forms of literature and as well as the evaluation of various modes and forms of writing. Writing and informational text lessons guide students through the stages of a rigorous research process and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations. As in Semester A, Honors assignments in this semester require students to take a more analytical or active approach to many of the assignments and activities in the course. Honors students will write more often and more deeply about topics and also reflect more critically on the processes they use to read and write.

Language Arts 11 A&B

Semester A - English for grade 11 is an American Literature course, with units organized chronologically according to periods in literary history. As students read foundation works of literature and other historical documents written between 1600 and 1900, they'll review and extend skills in five domains: analyzing literature, analyzing informational text, writing, speaking and listening, and language study, which includes word knowledge and grammar skills. Each module or unit begins with a lesson that provides historical context for the era and introduces themes that emerged in the literature of that era. Each lesson provides students with an opportunity to review basic analysis skills before applying those skills to works of literature or key historical documents. Lessons focused on more difficult historical documents include activities that help students comprehend the complex ideas in these works. Writing modes addressed in Semester A of this course include narrative, reflective, persuasive, and analytical modes. Assignments emphasize the use of details, evidence, and reasoning to support ideas; writing lessons include model essays that demonstrate key features of each mode. The speaking and listening lessons in Semester A cover rhetoric, the peer review or writing workshop process, and performance skills. Vocabulary development instruction is integrated into literature and informational text lessons. Each unit ends with an authentic assessment that presents students with a real-world scenario requiring some of the skills they learned in the unit.

Semester B - Semester B of English 11 consists of units focused on historical eras and literary movements of the 20th and 21st century, such as Naturalism, Imagism, the Harlem Renaissance, and Post-Modernism. Literature analysis lessons in semester B focus on the forms of literature that were most commonly written during the Twentieth Century and how the forms, styles, and techniques of that century inform literature written today. Students will also evaluate various modes and forms of language expression, including single media and multimedia messages. Writing and informational text lessons guide students through the stages of a rigorous research process and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations.

Language Arts 11 Honors A&B

Semester A. Honors English 11 is an American Literature course, with units organized chronologically according to periods in literary history. As students read foundational works of literature and other historical documents written between 1600 and 1900, they'll review and extend skills in five domains: analyzing literature, analyzing informational text, writing, speaking and listening, and language study, which includes word knowledge and grammar skills. Each module or unit begins with a lesson that provides historical context for the era and introduces themes that emerged in the literature of that era. Each lesson provides students with an opportunity to review basic analysis skills before applying those skills to works of literature or key historical documents. Lessons focused on more difficult historical documents include activities that help students comprehend the complex ideas in these works. The Honors level of the course provides additional challenging assignments aimed at preparing college-bound students for advanced work in the study of literature and language arts. Writing modes addressed in Semester A of this course include narrative, reflective, persuasive, and analytical modes. Assignments emphasize the use of details, evidence, and reasoning to support ideas; writing lessons include model essays that demonstrate key features of each mode. The speaking and listening lessons in Semester A cover rhetoric, the peer review or writing workshop process, and performance skills. Vocabulary development instruction is integrated into literature and informational text lessons. Each unit ends with an authentic assessment that presents students with a real-world scenario requiring some of the skills they learned in the unit.

Semester B of Honors English 11 consists of units focused on historical eras and literary movements of the 20th and 21st century, such as Naturalism, Imagism, the Harlem Renaissance, and Post-Modernism. Literature analysis lessons in semester B focus on the forms of literature that were most commonly written during the Twentieth Century and how the forms, styles, and techniques of that century inform literature written today. Students will also evaluate various modes and forms of language expression, including single media and multimedia messages. Writing and informational text lessons guide students through the stages of a rigorous research process and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations. As in Semester A, the second semester of Honors English 11 provides additional challenging assignments aimed at preparing college-bound students for advanced work in the study of literature and language arts.

Language Arts 12 A&B

Semester A - Students examine major works of literature organized into thematic units. Each unit contains poetry, short stories, and a novel that revolve around the theme for the unit. Themes include the self, relationships, alienation, choice, and death. As students read these works, they have the opportunity to reflect on these important themes by writing in multiple modes and creating cross-disciplinary projects.

Semester B - Welcome to the contemporary world literature course. In this course you will experience the novels, short stories, poetry, and non-fiction from countries around the world. You will discover that the writers in this course have ideas and lives as interesting as their work. You will discover many writers have unique writing styles, unique ideas, unique lives, and unique approaches to their art. You will also have the chance to do some unique work of your own. By reading contemporary work and some work of the 20th century you will also discover that "no matter what a writer's origins, certain themes and events have been hard to run away from in the 20th and early 21st centuries." As you read, it is my hope that you will come to an understanding that, ". . . reading literature from around the world is unlikely to teach you everything there is to know about a culture. But it may help. . ." Along this journey you will use technology, writing, reflection, vocabulary, research, and other academic and personal skills to help you learn to enter the world of your community, your country, and your world. As the poet Gwendolyn Brooks said, "I believe that we should all know each other, we human carriers of so many pleasurable differences. To not know is to doubt, to shrink from, sidestep or destroy." So,

begin your own journey through the world, and do this by reading, writing about what you read, and experiencing the work of writers.

Language Arts 12 Honors A&B

Semester A: Advanced Composition, English 12A Honors, focuses on learning to write with confidence and mastery. Emphasis is placed on building language flexibility, improving sentence structure, and mastering the writing process. Students create, revise, and edit six writing projects that are designed to help them take their writing to the next level. As an Honors course, emphasis is placed on project-based instruction and increased reading and writing opportunities. In this thought-provoking writing course, students prepare themselves for the demands of college and/or the job market by developing their writing skills. Through text readings, videos, interactive PowerPoint presentations, practice activities, workbook questions, interactive skills challenges, discussions, writing projects, and other activities students demonstrate their mastery of the writing process. Students will integrate the 6-Traits of Writing (i.e., ideas and content, organization, voice, word choice, sentence fluency, and conventions) to all of their writing. As an Honors course, emphasis will be placed on additional reading and writing project-based instruction. Students will create projects including a short story, expository essay, functional document, persuasive essay, literary analysis, and research paper. Through the engaging activities in English 12A Honors, students become more mature and accomplished writers.

In Semester B: British Literature, English 12B Honors, students experience a survey of dynamic British literature from the ancient epic poem of Beowulf to more contemporary pieces by authors such as George Orwell and Doris Lessing. Emphasis is placed on major literary movements, British authors and classics, and the impact of historical events on literary works. In English 12B Honors, students gain a better understanding of English masterpieces as well as their own writing. As an Honors course, emphasis is placed on project-based instruction and increased reading and writing opportunities. Engaging videos, interesting readings, and interactive activities provide students with pragmatic opportunities to apply reading comprehension and writing skills to their lives. Students work through interactive lessons, completing several self-check activities and quizzes. In each unit, students complete an exam as well as writing projects that include a personal narrative, a research document, a literary response, a descriptive essay, an expository essay, and a persuasive composition. Students also participate in daily discussions and teacher feedback is provided throughout the course. English 12B Honors covers the content and skills in English 12B as well as providing additional project-based instruction and increased reading and writing opportunities.

LEED Green Associate

This course introduces students to the LEED process. LEED, or Leadership in Energy and Environmental Design, is the global standard for green building certification. Throughout the course, students will gain an understanding of the various components of green building. The theme of sustainability and sustainable construction is woven throughout each module both in terms of physical environment and as it pertains to LEED certification.

Certification. This course prepares students for the LEED Green Associate Certification Exam.

Marine Science

About 70% of the Earth is covered by water. Even today, much of the world's oceans remain unexplored. Marine scientists make exciting new discoveries about marine life every day. In this course, students will discover the vast network of life that exists beneath the ocean's surface and study the impact that humans have on the oceans.

Math Essentials

Semester A - Students begin the first semester of this course with a review of how to use basic arithmetic operations with whole numbers, integers, fractions, mixed numbers, and decimals. More complex concepts are built on these basics. Students revisit simplifying order of operation problems. They will also learn how to apply the properties of addition and multiplication, as well as the distributive property, to equation solving. This semester ends with a review of solving inequalities in one- and two-steps.

Semester B -In the second semester of the Math Essentials online course, students apply all of their first semester knowledge to a variety of relevant topics. They learn the relationship among ratios, rates, and proportions, and solve daily problems using proportional reasoning. Students also look at the connection between fractions, decimal numbers, and percentages. They solve problems related to tipping, commissions, interest, and percentage increase or decrease. Next students revisit their coordinate plane and linear function knowledge, expanding their horizons by applying these concepts to other function families. The course then moves to everyday geometric concepts such as perimeter, area, and volume. Students end their year of study with a critical look at scatterplots in the real-world.

Media and Communication

From banner ads to billboards, newspaper articles, and Facebook feeds, people are constantly sharing ideas. This course looks at the many facets of mass media. Students will learn how the media shapes every aspect of our lives. We examine the role of newspapers, books, magazines, radio, movies, television, and the growing influence of Facebook, YouTube, and Twitter.

Medicine

This course provides students with an introduction to healthcare, with emphasis on modern, clinical medicine. Students review basic human anatomy and physiology, then study major health concerns affecting people in the U.S. and the world. This comprehensive, 6-unit course examines such topics as infectious diseases, cancer, traumatic injuries, and healthcare career opportunities.

Music Appreciation

Students will gain a thorough understanding of music by studying the elements of music, musical instruments, and music history, as well as music advocacy. Students will be introduced to the orchestra and composers from around the world. They will be required to be a composer, performer, instrument inventor, and advocate.

Networking

The Networking course identifies the key principles of Networking in today's connected world. From network fundamentals and componentry to automation and programming, students learn the details of network access, connectivity, and security essentials. Through engaging interactivities, simulations, and projects, students will explore these networking concepts to further their career potential in this field.

Certification. This course also prepares students for the Cisco Certified Network Associate (CCNA) exam.

Project Management

The Project Management course is intended to identify the key components of a career as a project manager. Students will review the basics in project management terminology, such as designating distinctions among projects, products, programs, and portfolios. They will delve into concepts like managing deliverables and creating engaging relationships with stakeholders. The primary components of project planning will be laid out and described in detail. Students will explore teams and organizational structures. They will discover project management tools and innovation being used in the industry. Overall, they will develop a greater understanding of the mechanisms that are in place to effectively carry out projects of any size through specific project management techniques.

Certification. This course prepares students for the Certified Associate in Project Management (CAPM) and the Project Manager Ready certification exams.

Paleontology

From Godzilla to Jurassic Park, dinosaurs continue to captivate us. In this course, students will learn about the fascinating creatures both large and small that roamed the earth before modern man. Watch interesting videos from experts at The Royal Tyrrell Museum, a leading paleontology research facility, and discover how the field of paleontology continues to provide amazing insight into early life on earth.

Personal Fitness

In this course, students are introduced to exercise and physical fitness and the general recommendations for physical activity, while examining the benefits of exercise, lifestyle choices that can help prevent disease, and tips for kick-starting a healthier lifestyle. Students will explore each type of fitness, include the benefits, and the federal guidelines for exercise in detail. Students will also learn about bones and joints and the functions of the skeleton, and the different types of movements that occur at various joints. Students will learn about the different types of muscle in their bodies, and how they are structured, with particular attention to the different types of muscle fibers. Students will explore the functions that muscles perform, how they work, and their interaction with the central nervous system and special considerations for safe and effective exercise. Students will learn how the cardio and respiratory systems work and interact with each other and about the different blood vessels that make up the circulatory (vascular) system. Students will learn about the body's energy systems and how eating and drinking relates to exercise. Finally, students will learn about the psychology of exercising.

Physics A&B

Semester A - Students begin their exploration of physics by reviewing the International System of Units (SI), scientific notation, and significant digits. They then learn to describe and analyze motion in one and two dimensions. Students learn about gravity and Newton's laws of motion before concluding the course with an examination of circular motion, energy, and simple machines. Students apply mathematical concepts such as graphing and trigonometry in order to solve physics problems.

Semester B - Physics B continues the student's exploration of mechanics while also guiding them through some other important topics of physics. Students begin by exploring simple harmonic motion, wave properties, and optics. Students then learn the basics of thermodynamics and fluids. Afterwards, the students explore the principles of electricity and magnetism. Finally, students explore the area of physics known as Modern Physics, which includes topics such as the photoelectric effect, nuclear science, and relativity. This is a trig-based course. It is assumed you know and can use trigonometry.

Physical Education A&B

Physical Education encompasses learning how to live and maintain a healthy lifestyle. This course covers physical fitness, why it is important, how to have a healthy attitude, and how to stick with a healthy game plan. In this ever-changing world, physical fitness becomes more important and more difficult to find the time for. This course allows the student to discover how to make physical fitness not only a part of their daily life, but also see that it is attainable. This course leads the student to discover healthy behaviors and sets the tone for physical fitness as well as healthy exercise. PE for a Healthy Lifestyle will examine the emotional, physical, and scientific factors that influence physical performance. This course is designed for anyone, ranging from the beginner to advanced abilities.

Physical Science A&B

Semester A - This is an introduction to the Physical Sciences and scientific methodology. The objectives are to impart a basic knowledge of the physical properties and chemistry of matter. Skills are developed in the classroom, and reinforced through homework reading, and interesting labs that relate to everyday life.

Semester B - Physical Science Grade 8 is an introduction to the Physical Sciences and scientific methodology. The objectives are to impart a basic knowledge of the physical properties and chemistry of matter. Skills are developed in the classroom, and reinforced through homework reading, and interesting labs that relate to everyday life.

Physics A&B

Semester A - Students begin their exploration of physics by reviewing the International System of Units (SI), scientific notation, and significant digits. They then learn to describe and analyze motion in one and two dimensions. Students learn about gravity and Newton's laws of motion before concluding the course with an

examination of circular motion, energy, and simple machines. Students apply mathematical concepts such as graphing and trigonometry in order to solve physics problems.

Semester B - Physics B continues the student's exploration of mechanics while also guiding them through some other important topics of physics. Students begin by exploring simple harmonic motion, wave properties, and optics. Students then learn the basics of thermodynamics and fluids. Afterwards, the students explore the principles of electricity and magnetism. Finally, students explore the area of physics known as Modern Physics, which includes topics such as the photoelectric effect, nuclear science, and relativity. This is a trig-based course. It is assumed you know and can use trigonometry.

Physics Honors A&B

Semester A. Students begin their exploration of physics by reviewing the International System of Units (SI), scientific notation, and significant digits. They then learn to describe and analyze motion in one and two dimensions. Students learn about gravity and Newton's laws of motion before concluding the course with an examination of circular motion. Students apply mathematical concepts such as graphing and trigonometry in order to solve physics problems. Throughout the course, students apply their understanding of physics by playing roles like science museum curator and elementary teacher.

Semester B. Physics B continues the student's exploration of mechanics while also guiding them through some other important topics of physics. Students begin by exploring simple harmonic motion, wave properties, and optics. Students then learn the basics of thermodynamics and fluids. Afterwards, the students explore the principles of electricity and magnetism. Finally, students explore the area of physics known as Modern Physics, which includes topics such as the photoelectric effect, nuclear science, and relativity. This is a trig based course. It is assumed you know and can use trigonometry.

Pre-Algebra A&B

Semester A - Pre-Algebra A will help students move from the world of simple mathematics to the exciting world of Algebra and Geometry. They will develop skills that will be necessary throughout their life. Students will stretch their thinking by learning to solve real world problems. Learning math and algebra concepts can be fun. Abstract ideas can be challenging for many students, but the challenge is one they can meet. Concepts are presented with a little humor, making the learning fun. Students will enjoy learning each new concept and develop a deeper understanding of the math skills they already have. Each concept is presented using examples of the skills, concepts, and strategies students will need. Scaffolding of ideas is provided to ensure student learning. The course is offered in a six-unit format containing 5 lessons each for a total of 30 lessons. Students will study text pages, watch videos, interact with flash presentations, and complete practice problems. The pace is controlled by the student and reviewing the material is encouraged.

Semester B - Pre-Algebra B will continue to move students into the exciting world of the unknown, Algebra. Building on what they have learned in mathematics and Pre-Algebra, students will expand their skills. They will be introduced to increasingly abstract concepts. Pre-Algebra B will provide the student with a concrete understanding of the basics for algebraic thinking. With numerous hands-on activities and demonstration videos, they will have multiple opportunities to enhance their process solving skills. Students will be given different assessment opportunities to demonstrate mastery of each skill. The course is offered in a six-unit format containing 5 lessons each for a total of 30 lessons. Students will study text pages, watch videos, interact with flash presentations, and complete practice problems. The pace is controlled by the student and reviewing the material is encouraged.

Pre-Calculus A&B

In this course, students will understand and apply concepts, graphs and applications of a variety of families of functions, including polynomial, exponential, logarithmic, logistic and trigonometric. An emphasis will be placed on use of appropriate functions to model real world situations and solve problems that arise from those

situations. A focus is also on graphing functions by hand and understanding and identifying the parts of a graph. A scientific and/or graphics calculator is recommended for work on assignments, and on examinations.

Pre-Calculus Part B covers the major units of Introductory Trigonometry and Graphs, Trigonometric Equations and Identities, Analytical Trigonometry, Sequences and Series, Conic Sections and an Introduction to Calculus. A focus is also on graphing functions by hand and understanding and identifying the parts of a graph.

Psychology A&B

Semester A - In Psychology A the student begins with a brief history of psychologists and their experimental methods. Next, they examine personality theories. Then human development from the infant stage through adult stage is explored. Finally, the last part of the course is about consciousness: sleep, dreams, and consciousness-altering substances. Students are encouraged to increase their own self-awareness as they move through the course.

Semester B - Students continue to learn about psychology. Students examine the nature of intelligence in humans and animals, including the origin of intelligence and how to measure it. They learn about learning with an emphasis on classical and operant conditioning. Students also investigate social psychology and psychological disorders. They demonstrate their understanding by completing projects in which they play roles like teacher, parent, and psychologist.

Renewable Energy

The earth's population is growing rapidly, and we need to find new, innovative ways to ensure that we are able to provide for our global energy needs. Students will look at the reasons why sustainability is important, take a balanced and evidence-based look at climate change, and learn new ways that we can harness renewable resources.

Robotics: Applications & Careers

It seems like many elementary to high school robotics courses are focused on simply coding a Lego robot to move its mechanical arm up and down. This course, in contrast, teaches students what a robot is and how it relates to other key technologies such as artificial intelligence and machine learning. Then, the course examines ten applications of robots and how they will change and impact various aspects of our lives and the economy. Will robots simply steal our jobs, or will they be a tool that will create new opportunities and even free humans to use our creativity and curiosity to their full potential? Students will grapple with this and many other questions as they explore this vital, future-focused subject.

Smart Cities: Technology & Applications

This course will provide students with an overview of smart cities. The course will begin by providing a foundational explanation of what constitutes a smart city and why they are beginning to pop up around the globe. With a firm understanding of what a smart city is, the majority of the course will focus on various aspects of them such as energy, transportation, data, infrastructure, mobility, and IOT devices. The course will conclude with an analysis of careers related to smart cities.

Social Media Business Marketing

Whether it's posting pictures, videos, or interacting in the metaverse, today's students who aspire to apply their social media skills to business marketing must be prepared. This course on Social Media Business Marketing provides them with the foundational knowledge of social media technology and marketing principles. The course begins with an introduction to social media platforms and then goes in depth into the marketing and advertising strategies used to support a company's social media strategy and campaigns. Through activities and projects, students will gain firsthand knowledge of this exciting field.

Certification. This course also prepares students for the Social Media Strategist Certification.

Sociology

Sociology examines the basics of sociology, which is the study of society including individuals, human groups, and organizations. The course is divided into four main areas: the sociological perspective, social structures, inequality in society, and social institutions and change. Students will examine controversies around social change, inequality, gender, and race. The course revolves around an overview of the field with projects that offer the student a chance to explore from a sociologist's perspective.

Space Exploration

In 1961, Yuri Gagarin became the first human to go to space. In 1969, Neil Armstrong became the first human to step on the moon. This comprehensive course will examine the history and future of space travel. Find out how we have put people in space in the past, and what it will take for us to reach new frontiers, including Mars and beyond.

Spanish 1 A&B

Spanish 1, Semester A, is an introduction to Spanish language and culture. Students learn to start with the basics of greetings and basic conversation, working to incorporate ideas from their life and experiences in Spanish conversation. This will be accomplished through written and verbal expression of the Spanish language.

Building upon Semester A, Spanish 1 Semester B expands to asking questions and conversational Spanish throughout one's neighborhood and daily life. Through real-life scenarios and learning examples, students will describe situations, in Spanish, both verbally and written.

Spanish 2 A&B

Students build upon the foundation developed in Spanish 1. They continue to build vocabulary, learn new verb tenses and other grammar concepts, and they increase their ability to communicate with others. They learn new concepts, like reflexive verbs, infinitive expressions, commands, the imperfect tense. Semester B will continue building on vocabulary, grammar concepts and communicating effectively in the target language. You will explore new countries where Spanish is spoken and continue to keep abreast of current events in the Spanish-speaking world.

Spanish 3 A&B

Students continue to develop their ability in reading, writing, speaking, and understanding Spanish through a systematic review of its structure. Students focus on applying vocabulary in a wider array of situations by learning about the past progressive and subjunctive moods and the present perfect, future, and conditional tenses.

Speech

This course is an introduction to public speaking that emphasizes the communication process, types of speeches, and argumentation. The purpose of this course is to prepare students for public speaking situations, decrease speaker anxiety, and provide them with basic principles of research and organization needed for effective speeches.

Startups & Innovation

Students hear a lot of contradictory advice in life. On one hand, they may hear something like "Follow your dreams. Pursue your passion and the money will come!" On the other hand, they may hear something completely opposite, like "Most startups fail! It's much safer to get a safe, steady job." So which side is right? Given the massive changes to the economy and society, the skills of entrepreneurship are going to be critical in building a lasting career. The entrepreneurial mindset of searching for opportunities, creating value, and solving pain points will always be valuable. This mindset applies not just to starting a business, but in any organization that someone is a part of: school, established companies, or non-profits. In this course, students will explore how to use this mindset to create the next world-class startup.

Study Skills & Strategies

The Study Skills and Strategies course equips students with skills and understandings critical to effective learning. Using a unique approach to the traditional topic of study skills, this course weaves understanding regarding the role of the brain in learning into the instruction of discrete learning skills and strategies. Moving beyond a list of good tips and ideas, the Study Skills and Strategies course will challenge students to develop intentional approaches to learning. They will be required to make connections between the strategies and skills they learn in this course and the implementation of those strategies and skills in their other coursework. Upon completion of the course, students will have learned a variety of specific learning skills and strategies, gained greater understanding of their own learning preferences, and become prepared to develop and implement specific learning and study plans for any academic course or other learning needs.

Teaching as a Profession

Teaching can be a highly rewarding profession. Throughout the course, students will explore career opportunities within the field of education. They will learn what it means to be a professional in the classroom, whether it be working alongside co-teachers or managing an inclusive and diverse group of students. Students will learn about the code of conduct expected of educational professionals. Students will explore the history and best practices in the teaching profession as well as professional development opportunities. They will discover what it means to emerge as leaders in the field.

Transportation Technologies

This course introduces students to the newest and most cutting-edge futuristic transportation technologies out there. Students gain familiarity with the history of transportation development and understand a framework with which to evaluate new transportation modes. Then the course dives into ten different technologies on the horizon. Students examine the technologies, the pros and cons of each mode, and explore potential career paths in these emerging fields.

Wearable Technology Innovations

From hearing aids to pedometers to smart watches, humans have made and worn devices to overcome physical deficiencies, count their steps, and communicate. With the continue miniaturization of chips and sensors, combined with increasing sophistication of artificial intelligence, wearable technology has proliferated into countless end-markets. This course will introduce students to wearable technologies and the components and software that make these technologies possible. The course will also evaluate several applications of wearable technologies in various industries. Finally, the course will examine and discuss the implications of wearable technology, including its pros and cons and potential implications to our health, privacy, and society.

World Geography & Cultures A&B

Semester A - The student will be taught to use the basic skills of map reading and development, geographic technology, and the recognition of geographic themes to make sense of the world. The course examines world regions including the nations, people, and cultures of the Americas and Western Europe.

Semester B - This second-semester course continues to teach the basic skills of map reading and development, the use of geographic technology, and the recognition of geographic themes. The focus examines the world regions, including the nations, people, and cultures of Central Europe and Northern Eurasia, Central and Southwest Asia, South Asia, Africa, East Asia, and the Pacific.

World History A&B

Semester A - World History begins with a focus on the skills needed to read, understand, and analyze history, also demonstrating how historians and social scientists arrive at their conclusions about human history. Semester A covers the history of civilization from hunter-gatherer societies through the characteristics of the earliest civilizations to the Enlightenment period in Western Europe. The second half of Semester A explores early intellectual, spiritual, and political movements and their impact on interactions among world cultures.

Semester B - Semester B applies the reading and analytical strategies introduced in Semester A to the events and movements that created the modern world. In the second semester, World History emphasizes the effects of the Industrial Revolution and changing attitudes about science and religion as well as the impact of European colonization. Students are encouraged to make connections between World War I and II and events related to the Cold War and between 19th-century imperialism and modern independence movements.

World History Honors A&B

Semester A: Civilization to Industrialization. In World History A Honors, students explore ancient civilizations in order to understand the geographic, political, economic, and social characteristics of people. By developing their understanding of the past, students can better understand the present and determine their direction for the future. In this course, students explore the first civilization in Mesopotamia; the ancient civilizations of China, Greece, and Rome; the rise of the Byzantine Empire; and the feudal system in Europe and Japan. They also learn about the Renaissance and Reformation, the Enlightenment Period, and the scientific and democratic revolutions in Europe that spread to the new nation of America. The last part of the course concentrates on the Napoleonic Era, the Industrial Revolution in England, and the rise of imperialism in Europe. In addition, historical analysis and current events are featured in the final lessons.

Semester B: Conflicts in Modern Civilization. In this course, students examine the factors leading up to World War I, the rise of nationalism, and the worldwide economic depression. The causes of War II, and the military strategies involved are also analyzed. The advances in modern warfare for both World Wars are a special focus. In addition, students learn about the struggle between the ideologies of democracy and communism as well as the change in the balance of power after World War II in which countries fought for self-rule. An appraisal of the Cold War and the fall of the Soviet Union are included. Later lessons find students exploring the roots of terrorism and the conflicts in the Middle East, Eastern Europe, and Asia. The final unit of the course centers on the new global economy, advances in science and technology, and current environmental issues. Students assess primary and secondary source materials in depth. Projects and class discussions challenge students to predict outcomes, draw conclusions, and make choices based upon critical thinking.