



Course Guide

HIGH SCHOOL
2021-2022

INSPIRING EACH STUDENT EVERY DAY



EDEN PRAIRIE SCHOOLS

Inspiring each student every day

8100 School Rd, Eden Prairie, MN 55344 | (952) 975-7000 | EDENPR.ORG



EP ONLINE

Inspiring each student every day

Table of Contents

9 th Grade Courses	4
10 th Grade Courses	7
11 th Grade Courses	10
12 th Grade Courses	13
Electives.....	16



9th Grade

COURSES | 2021-2022



EP ONLINE

Inspiring each student every day

Semester 1

BLOCK 1

English I Honors

English Language Arts

2 credits

Develop language arts skills by reading, writing, listening, viewing, and speaking. You will learn to use the English language to successfully express yourself.

Pre-Requisites: None

BLOCK 2

Earth Space Science Honors

Science

2 credits

Be captivated by the wonders and beauty of the third planet from our Sun, Earth. Be amazed by what awaits your discovery within our solar system and beyond. Explore the universe. Earth/Space Science is a laboratory course focusing on the study of space, geologic structures and forces, the waters on our planet, and atmospheric conditions.

Pre-Requisites: None

BLOCK 3

HOPE

Health and Physical Education

2 credits

With a focus on health and fitness, this course guides student to be active and healthy now and for a lifetime. Effective strategies and techniques are a foundation of the course so that students can continually make improvements in all areas of wellness. Students, with the guidance of a training instructor, set personal goals in four areas of wellness: physical, emotional, social, and academic.

Pre-Requisites: None



BLOCK 4

CHOOSE 1 OPTION

Instrumental Techniques I

Music

2 credits

Students receive a structured program of training in a variety solo repertoire, music theory, and instrumental or vocal pedagogy. Students will experience a variety of historical styles and genres.

Pre-Requisites: None

EDL - Art in World Cultures

Electives

2 credits

Who do you think is the greatest artist of all time? Maybe Leonardo da Vinci? Michelangelo? Maybe a more modern artist like Claude Monet or Pablo Picasso? Or is it possible that the greatest artist of all time is actually someone whose name has been lost to history? In Art in World Cultures, you'll learn about some of the greatest artists in the world while creating your own art, both on paper and digitally.

Pre-Requisites: None

Semester 2

BLOCK 1

CHOOSE 1 OPTION

Geometry Honors

Mathematics
2 credits

Geometry is everywhere, not just in pyramids. Engineers use geometry to build highways and bridges. Artists use geometry to create perspective in their paintings, and mapmakers help travelers find things using the points located on a geometric grid. Throughout this course, students travel a mathematical highway illuminated by spatial relationships, reasoning, connections, and problem solving.

Pre-Requisites: None

Algebra II Honors

Mathematics
2 credits

This course allows students to learn while having fun. Interactive examples help guide students' journey through customized feedback and praise. Mathematical concepts are applied to everyday occurrences such as earthquakes, stadium seating, and purchasing to demonstrate how the world around us functions.

Pre-Requisites: Geometry

BLOCK 2

World History Honors

Social Studies
2 credits

In Segment I, students learn how the Roman Empire developed in two very distinct directions. Next, students discover the great intellectual and cultural contributions of Islamic Empires. Journey through the Middle Ages of Europe and Japan to learn how knights and samurais lived. Students will also investigate the rise and fall of some of the great kingdoms of the Americas and Africa and then travel back to the Europe of the Renaissance and Reformation era. Segment II begins with a bang as students learn about advancements in science and thought during the Age of Enlightenment and the social and political revolutions that followed as a result. As students navigate through the 19th century, they will learn about the transformation from an agricultural to an industrial world and the many changes that resulted from that shift. Students then learn about the interconnectedness of nationalism and colonialism and the resulting world wars. As students approach the finish line, they learn about development in our modern world and the implications that historical events have on us today.

Pre-Requisites: None

BLOCK 3

CHOOSE 1 OPTION

Spanish II

World Languages
2 credits

Get ready to embark on the next leg of your journey to Spanish fluency. In Spanish II students continue building listening, speaking, reading, and writing skills as well as increasing their cultural awareness of Spanish-speaking countries through audio recordings, engaging images, interactive games, readings, and videos. Apply learning through written practices and listening and speaking exercises to take your Spanish language skills to the next level!

Pre-Requisites: Spanish I

French II

World Languages
2 credits

Salut! Get set for some more adventure! In French 2, students are immersed in the French language and culture. This course is full of engaging and interactive videos, dialogues, presentations, self-checks, and much more! The purpose of this course is to further develop the French communicative skills of listening, speaking, reading and writing. In French 2, students will broaden their French vocabulary and knowledge of grammar. Students will also experience the beauty and expressiveness of a language that is shared by different people and cultures throughout the world.

Pre-Requisites: French I

Chinese II

World Languages
2 credits

Chinese II enables students to further develop the communicative skills of listening, speaking, reading, and writing of Mandarin Chinese at a more advanced level. Students are immersed in Chinese culture as virtual exchange students in China. Virtual excursions from one Chinese city to another expand their vocabulary helping them learn to interact with others and use appropriate terms to communicate in a variety of everyday situations.

Pre-Requisites: Chinese I

BLOCK 4

Elective Choice

SEE ELECTIVE OPTIONS ON PAGES 16-18

10th Grade

COURSES | 2021-2022



EP ONLINE

Inspiring each student every day

Semester 1

BLOCK 1

English II Honors

English Language Arts

2 credits

In English II, students learn how the human experience – real life – is the foundation of the best stories, plays, poems, films, and articles. The four modules – Live Love Laugh, Obstacles, Fear, and Betrayal – allow students to focus on particular aspects of the human experience. Throughout the course, students explore what it means to be human, what it means to be fulfilled, challenged, transformed, and intellectually active. Designed to meet Common Core Standards, the course takes an in-depth look at pieces of literature through close readings, the use of textual evidence in writings, the creation of arguments through research and facts, and the application of writing and revision strategies. Additionally, students will encounter new vocabulary and vocabulary acquisition strategies, learn and refine the grammar and mechanics of their writing, discover the power of literary devices, investigate structures, and engage in thought-provoking projects.

Pre-Requisites: None

BLOCK 2

Biology Honors

Science

2 credits

The Biology course guides students through the study of living and non-living systems and how they interact with one another. Students explore the world they live in by posing questions and seeking answers through scientific inquiry. Discovery takes place through observation and data collection. The students will be introduced to the structure, function, diversity, and evolution of living matter. This is a course with real relevance. It encourages curiosity and provides opportunity for students to work on hands on lab activities and develop relationships through collaboratively learning. Engaging in the study of biological science broadens the picture of the world around us.

Pre-Requisites: None

BLOCK 3

Personal Fitness & Life Management Skills

Health and Physical Education

2 credits

Each day hundreds of decisions are made, including important decisions that have a huge impact on personal life. Making good decisions is a whole lot easier for those who have the correct information before making those decisions.

Pre-Requisites: None

BLOCK 4

CHOOSE 1 OPTION

EDL - Music of the World

Electives

2 credits

Music is part of students' everyday life. In this course, they learn how to understand the impact of music as well as how it represents the culture it was created within and reflects the spirit of the human condition. Students learn to know and understand music by being able to distinguish and identify cultures on both local and global levels. Students meet musicians and composers and learn how their music continues to influence what is listened to today. In this course, students gain a historical perspective of music, covering a variety of styles and developments from the Middle Ages through the 21st century. In their musical journey, students acquire basic understanding and knowledge of singing, listening, and playing instruments. Partnering those skills with an understanding of music composition and improvisation will make future music experiences more informed and satisfying.

Pre-Requisites: None

Instrumental Techniques I

Music

2 credits

Students receive a structured program of training in a variety solo repertoire, music theory, and instrumental or vocal pedagogy. Students will experience a variety of historical styles and genres.

Pre-Requisites: None

Semester 2

BLOCK 1

CHOOSE 1 OPTION

Algebra II Honors

Mathematics

2 credits

This course allows students to learn while having fun. Interactive examples help guide students' journey through customized feedback and praise. Mathematical concepts are applied to everyday occurrences such as earthquakes, stadium seating, and purchasing movie tickets. Students investigate the effects of an equation on its graph through the use of technology. Students have opportunities to work with their peers on specific lessons. Algebra II is an advanced course using hands-on activities, applications, group interactions, and the latest technology.

Pre-Requisites: Geometry

Pre-Calculus Honors

Mathematics
2 credits

Students, as mathematic analysts, will investigate how advanced mathematics concepts can solve problems encountered in operating national parks. The purpose of this course is to study functions and develop skills necessary for the study of calculus. The Pre-calculus course includes analytical geometry and trigonometry. Pre-calculus is an Honors level course.

Pre-Requisites: Algebra I, Algebra II, Geometry

BLOCK 2

CHOOSE 1 OPTION

US History Honors

Social Studies
2 credits

The United States began as an experiment in freedom and democracy. Since its establishment, the country and its people have endured social, political and economic revolutions. In this course, students will investigate the people, events and ideas that have shaped the United States from the end of the Civil War through today. Students are asked to analyze and evaluate decisions made by political, business and military leaders. Emphasis is placed on connections between events of the past and present. This course also gives students the opportunity to conduct research and apply their learning to current, real-world problems.

Pre-Requisites: None

AP US History

Advanced Placement
2 credits

AP United States History focuses on developing students' abilities to think conceptually about U.S. history from approximately 1491 to the present and apply historical thinking skills as they learn about the past. Seven themes of equal importance –American and national identity; politics and power; work, exchange, and technology; culture and society; migration and settlement; geography and the environment; America in the World—provide areas of historical inquiry for investigation throughout the course. These require students to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places.

Pre-Requisites: None

BLOCK 3

CHOOSE 1 OPTION

Spanish III Honors

World Languages
2 credits

Dive into the rich diversity of Hispanic culture across the globe by exploring the tastes, sights, and sounds of this dynamic language that reflects triumph, struggle, celebration, and so much more. During this cultural journey, you'll improve conversational, vocabulary, and writing skills through authentic tasks. Short of obtaining a passport, there is no better way to discover new lands, peoples, or experiences. Take your Spanish language abilities to the next level!

Pre-Requisites: Spanish I, Spanish II

French III

World Languages
2 credits

Salut! Get set for some more adventure! In French 3, students are immersed in the French language and culture. This course is full of engaging and interactive videos, dialogues, presentations, self-checks, and much more! The purpose of this course is to further develop the French communicative skills of listening, speaking, reading and writing.

Pre-Requisites: French I, French II

Chinese III Honors

World Languages
2 credits

In Chinese III, students continue to expand their abilities in various aspects of Chinese Mandarin. Students continue to build their knowledge of vocabulary, sentence patterns, and grammar points in communicative contexts. They also enhance their Chinese Mandarin listening and speaking skills, such as pronunciation and intonation. Students learn more in-depth Chinese reading and writing strategies and skills. The Chinese III course greatly improves students' reading abilities, and students are able to write in Chinese in various formats such as journal, letter, invitation, and essay. The course also enriches and fortifies the students' knowledge and skills in writing simplified Chinese characters. In this course, students learn more essential knowledge of Chinese culture, including the origins, histories, anecdotes, and etiquettes for various cultural settings, events, and occasions. Students also learn to compare and contrast the Chinese culture with their own cultures in many different aspects. Students who complete Chinese III earn Honors credit.

Pre-Requisites: Chinese I, Chinese II

BLOCK 4

Elective Choice

SEE ELECTIVE OPTIONS ON PAGES 16-18

11th Grade

COURSES | 2021-2022



EP ONLINE

Inspiring each student every day

Semester 1

BLOCK 1

CHOOSE 1 OPTION

English III Honors

English Language Arts

2 credits

"Extra, extra, read all about it!" It's all right here in black and white, in the pages of The Virtual Times newspaper. Published at key periods in our American history, The Virtual Times takes us right into the action. The writing is clear and concise. The stories and opinions give us perspective. The sports and entertainment sections give us the color and flavor of the times. In English III, the writing and insights of authors throughout our history are collected in the fast-paced pages of The Virtual Times. You'll gain an appreciation of American literature and the ways it reflects the times in which it was written. You'll discover how people thought and lived and wrote about their experiences. You'll also be asked to observe, investigate and report on stories of today. The goal is to be thorough, accurate and compelling in your writing. Perhaps in times to come, people will want to read what you thought and wrote.

Pre-Requisites: None

AP English Language & Composition

Advanced Placement

2 credits

An AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. The college composition course for which the AP English Language and Composition course substitutes is one of the most varied in the curriculum.

Pre-Requisites: English I, English II (Honors)

BLOCK 2

CHOOSE 1 OPTION

Chemistry I Honors

Science

2 credits

The high school chemistry course is a two-segment study of the foundations of chemistry, building on the concepts and scientific thinking laid in middle school science. Students use scientific inquiry and higher-order problem solving as they explore the composition, properties, and changes of matter and their applications through interactive simulations,

engineering solutions, and virtual and hands-on experiences. Scientific inquiry, research, experimental procedures, data collection and analysis, and making inferences are an integral part of the learning experience. In addition, technology, engineering, and mathematics (STEM) concepts are integrated throughout the course. Through phenomenon-based learning, students will be able to demonstrate a vast understanding of the importance of chemistry in the world, enabling them to apply these principles to their everyday lives and our global society.

Pre-Requisites: Required: Algebra I

Physics I Honors

Science

2 credits

In each module of Physics I, students discover the contributions of scientific geniuses like Galileo, Newton, and Einstein. Through their work, students learn the concepts, theories, and laws that govern the interaction of matter, energy, and forces. From tiny atoms to galaxies with millions of stars, the universal laws of physics are explained through real-world examples. Using laboratory activities, simulations, images, and interactive elements, students follow in the footsteps of some of the world's greatest thinkers.

Pre-Requisites: Algebra I, Algebra II

BLOCK 3

Digital Information Technology

Electives

2 credits

Dive into an exciting course that will provide you with the foundational skills needed for exciting careers like game development, military defense, web design, and software engineering! You will explore Microsoft Office online applications, web design, emerging technologies, operating systems, project management, communication methods, Information Technology careers, and much more in this course. Learn about your strengths and how they relate to different career paths.

Pre-Requisites: None

BLOCK 4

Open Block/Elective Choice

SEE ELECTIVE OPTIONS ON PAGES 16-18

Semester 2

BLOCK 1

CHOOSE 1 OPTION

AP Statistics

Advanced Placement
2 credits

Actively construct your own understanding of the methods, interpretation, communication, and application of statistics. Each unit is framed by ideas and questions designed to provide you with a deep understanding of the concepts at hand, rather than memorization and emulation. This course meets one required math credit for high school graduation.

Pre-Requisites: Algebra II

Probability & Statistics Honors

Mathematics
2 credits

Probability and Statistics will introduce students to exploring data, sampling and experimentation by planning and conducting studies, anticipating patterns using probability and simulation, and employing statistical inference to analyze data and draw conclusions.

Pre-Requisites: Algebra II

BLOCK 2

AP Human Geography

Advanced Placement
2 credits

The AP® Human Geography course is designed to provide college level instruction on the patterns and processes that impact the way humans understand, use, and change Earth's surface. Students use geographic models, methods, and tools to examine human social organization and its effect on the world in which we live. Students are challenged to use maps and geographical data to examine spatial patterns and processes and analyze the changing interconnections among people and places.

Pre-Requisites: None

BLOCK 3

Personal Financial Literacy

Social Studies
2 credits

Learning to make sound financial decisions is one of the most important lessons a student can learn. In this course, students will learn financial decision-making skills using real-life applications and data.

Pre-Requisites: None

BLOCK 4

Open Block/Elective Choice

SEE ELECTIVE OPTIONS ON PAGES 16-18



12th Grade

COURSES | 2021-2022



EP ONLINE

Inspiring each student every day

Semester 1

BLOCK 1

CHOOSE 1 OPTION

English IV Honors

English Language Arts

2 credits

Come explore the world of big ideas in English IV, where you are able to choose which path you will travel first as you explore highly-engaging, thematic units. Each path will guide you through a series of literary pieces that allow you to analyze the political, social, economic, and cultural messages of its time as well as its relevance to the world you live in today. Each path revolves around a central theme. The works in the course span a period of over 1000 years and have been written by authors who share common ideas, but employ a variety of literary genres to express their views. Whether it is the dramatic ending of a play, or the colorful images in a verse of poetry, the words of these authors will leave you with a new understanding of the world around you. As you travel down each path, you will create authentic work pieces that will engage you in higher-level learning and provide you with a greater understanding of literature and its connection to the world.

*Pre-Requisites: None***AP English Literature & Composition**

Advanced Placement

2 credits

This course provides high school students with college-level instruction in active, close reading, and analysis of imaginative literature. Through the close reading of works of literary merit, students learn to consider how a work's style, figurative language, theme, and other literary elements contribute to its meaning and cultural significance. This approach to analyzing prose and poetry allows students to establish connections, make observations about textual details, and sharpen their understanding of these nuances through their own writing. This course will effectively prepare students for the AP Exam and learning beyond the exam by enabling them to read, analyze, and write about complex texts.

Pre-Requisites: None

BLOCK 2

Science Elective Choice

2 credits

[SEE ELECTIVE OPTIONS ON PAGES 16-18](#)

BLOCK 3

Elective Choice[SEE ELECTIVE OPTIONS ON PAGES 16-18](#)

BLOCK 4

Open Block/Elective Choice[SEE ELECTIVE OPTIONS ON PAGES 16-18](#)

Semester 2

BLOCK 1

CHOOSE 1 OPTION

Advanced Algebra with Financial Applications

Mathematics

2 credits

This course walks students through the information needed to make the best decisions with money. Advanced Algebra with Financial Applications is an advanced course incorporating real-world applications, collaboration, and calculations using technology.

Pre-Requisites: Algebra I, Algebra II recommended

AP Calculus AB

Advanced Placement

2 credits

In AP Calculus AB, students walk in the footsteps of Newton and Leibnitz. This interactive course framework combines with an exciting on-line course delivery to make calculus an adventure. The course includes a study of limits, continuity, differentiation, integration, differential equations, and the applications of derivatives and integrals. This course consists of a full high school year of work that is comparable to calculus courses in colleges and universities. It is expected that students who take an AP course in calculus will seek college credit, college placement, or both, from institutions of higher learning. Most colleges and universities offer a sequence of several courses in calculus, and entering students are placed within this sequence according to the extent of their preparation, as measured by the results of an AP examination or other criteria.

Pre-Requisites: Algebra I, Geometry, Algebra II, and Pre-Calculus

BLOCK 2

CHOOSE 1 OPTION

US Government & Economics

Social Studies

2 credits

Responsible citizenship, including civil and political participation is essential to maintain a representative government that truly represents the people of the United States. In this course, students learn about the structure of government and how it shares power at the local, state and federal levels. This course also explores founding principles that inspired the Constitution and Bill of Rights, preserving the freedoms that students experience daily. Students will examine the processes of each branch of government, the election process, and how citizens can impact public policy. The media, interest groups and influential citizens provide examples of how the government can be effected by informed and active participants. Students will examine the U.S. Court system, and become a part of the process by participating in the judicial decision making process. They will also discover ways the United States interacts with countries around the world, through domestic policy,

foreign policy and human rights policy. Economic decisions affect us every day of our lives. Understanding economics means thinking about how scarcity, or limited resources, requires us to make choices and evaluate one option against others. In this course, students will recognize examples of economics in your daily life. Students will see how the economic choices of larger groups, like businesses and governments, affect students and others. As students progress through the course, students will recognize that the costs and benefits of choices connect individuals and groups around the world. The purpose of this course is to help students become a smart consumer who understands the flow of an economy between individuals, businesses, governments, and the rest of the world.

Pre-Requisites: None.

Students will be exposed to a college-level learning experience.

AP U.S. Government & AP Macroeconomics

Advanced Placement

2 credits

Within AP U.S. Government and Politics, students develop and use disciplinary practices and reasoning processes to explore political concepts, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students examine core principles, theories, and processes through direct study of U.S. foundational documents and Supreme Court opinions. They also participate in a civic project in which they research, study, and compile data on a political science topic and create a presentation that exhibits their findings and experiences. The AP U.S. Government and Politics course is structured around five big ideas outlined within the College Board Advanced Placement United States Government and Politics Course Framework. Each big idea is aligned to enduring understanding statements and learning objectives that focus on key concepts and essential knowledge about foundations of American democracy, civil liberties and civil rights, interactions among branches of government, American political participation, ideologies, and beliefs. Understand the choices you make as a producer, consumer, investor, and taxpayer. This course provides you with the knowledge and decision-making tools necessary for understanding how a society must organize its limited resources to satisfy its unlimited wants. This course meets the Economics high school graduation requirement.

Pre-Requisites: None.

Students will be exposed to a college-level learning experience.

BLOCK 3

Elective Choice

SEE ELECTIVE OPTIONS ON PAGES 16-18

BLOCK 4

Open Block/Elective Choice

SEE ELECTIVE OPTIONS ON PAGES 16-18

Elective

COURSES | 2021-2022



EP ONLINE

Inspiring each student every day

BUSINESS & MARKETING

EDL - Entrepreneurship: Starting Your Business

Electives
2 credits

What does it really take to own your own business? Does the sound of being your own boss make you feel excited or anxious? Either way, Entrepreneurship: Starting Your Business will get you started in the right direction. This course explains the ins and outs of such an enterprise, giving you the confidence needed to be your very own boss. You will discover what is needed to operate a personal business from creating a plan, generating financing, and pricing products to marketing services and managing employees. If you've ever dreamed of being a true entrepreneur but feel daunted by the prospect, this is your chance to learn all you need to know.

Pre-Requisites: None

ARTS

AP Art History

Advanced Placement
2 credits

Within AP Art History, students will explore the interconnections between culture, art, and historical context through the critical analysis of art, culture, and purpose.

Pre-Requisites: Due to mature content, recommended for grades 10–12 in conjunction with or with successful completion of World History

Art History & Criticism I Honors

Electives
2 credits

In this course students will understand the political, cultural, and religious changes throughout history that are depicted within art. This course is an opportunity for students to reflect on how art was and is used as a vehicle to communicate, depict political and religious propaganda, and serve as evidence of cultural shifts and changes. Students will be challenged to contemplate the connection between art and context through reflective writing assessments and Discussion-Based Assessments. Students will build upon knowledge throughout the course and understand how art reflects and communicated cultural change and evolution. Students will develop critical skills of analysis, synthesis, and evaluation in this course by analyzing historical documents, working in a thematic context, developing proficiency in note-taking, free-response writing, and solving problems. Students will demonstrate their skills through participation in extended collaborative projects.

Pre-Requisites: None

EDL - Theater, Cinema & Film Production

Electives
2 credits

Lights! Camera! Action! This course will introduce students to the basics of film and theater productions. Students will learn about the basics of

lighting, sound, wardrobe, and camerawork for both film and theater.

Pre-Requisites: None

ENGLISH LANGUAGE ARTS

AP English Language & Composition

Advanced Placement
2 credits

An AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. The college composition course for which the AP English Language and Composition course substitutes is one of the most varied in the curriculum.

Pre-Requisites: None

AP English Literature & Composition

Advanced Placement
2 credits

This course provides high school students with college-level instruction in active, close reading, and analysis of imaginative literature. Through the close reading of works of literary merit, students learn to consider how a work's style, figurative language, theme, and other literary elements contribute to its meaning and cultural significance. This approach to analyzing prose and poetry allows students to establish connections, make observations about textual details, and sharpen their understanding of these nuances through their own writing. This course will effectively prepare students for the AP Exam and learning beyond the exam by enabling them to read, analyze, and write about complex texts.

Pre-Requisites: None

Journalism I

Electives
2 credits

Journalism I provides students with the fundamental basics of journalism. Students begin by exploring the history of American journalism, examining different media such as print, radio, television, and Internet journalism. Students learn how to write a news story, a feature story, and an editorial, with a focus on research, analyzing the reliability of sources, conducting interviews, writing leads, revising, and self-editing. Students will also take a close look at different careers in journalism, ethics in journalism, and visual layouts using technology, including web 2.0 tools.

Pre-Requisites: None

MATHEMATICS & COMPUTER PROGRAMMING

AP Computer Science A

Advanced Placement
2 credits

The AP Computer Science A course is an introductory computer science course. A large part of the course involves developing the skills to write programs or parts of programs that correctly solve specific problems. The course also emphasizes the design issues that make programs understandable, adaptable, and when appropriate, reusable. At the same time, the development of useful computer programs and classes is used as a context for introducing other important concepts in computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, and the study of standard algorithms and typical applications. In addition, an understanding of the basic hardware and software components of computer systems and the responsible use of these systems are integral parts of the course.

Pre-Requisites: Algebra I and II recommended

AP Statistics

Advanced Placement
2 credits

Actively construct your own understanding of the methods, interpretation, communication, and application of statistics. Each unit is framed by ideas and questions designed to provide you with a deep understanding of the concepts at hand, rather than memorization and emulation. This course meets one required math credit for high school graduation.

Pre-Requisites: Algebra II

Foundations of Programming

Electives
2 credits

Foundations of Programming will teach students the fundamentals of programming using the computer language Python. The course provides students with the concepts, techniques, and processes associated with computer programming and software development. Students will also explore the many programming career opportunities available in this high-demand field.

Pre-Requisites: Digital Information Technology

Procedural Programming

Electives
2 credits

Procedural Programming(ProP) teaches advanced programming concepts using the computer language Python. You will learn techniques and processes associated with computer programming and software development.

Pre-Requisites: Digital Information Technology, Foundations of Programming

SCIENCE

Agriscience Foundations I

Electives
2 credits

Agriscience Foundations involves the scientific study of agriculture and its local and global impact. Students will dive into agricultural history, learn about scientific and research concepts that drive the field, animal and plant systems.

Pre-Requisites: None

Anatomy & Physiology Honors

Science
2 credits

In this course students explore the organization of the human body and how it works. They will acquire knowledge necessary to understand what the body is doing and how they can help the body cope with many different situations.

Pre-Requisites: Biology I recommended, but not required

AP Biology

Advanced Placement
2 credits

This course is designed to provide a college-level experience and prepare students for the AP exam in early May. Students will develop a foundation for understanding biological concepts through scientific inquiry, investigations, interactive experiences, higher-order thinking, real-world applications, writing analytical essays, statistical analysis, interpreting and collecting data. AP Biology 'big ideas' include system interactions, evolution, energetics, information storage, and transmission. Students will participate in a variety of engaging activities that enhance their mastery of biology concepts. This course fulfills one required science credit for high school graduation. Prerequisite: Biology I, Chemistry I and Algebra I recommended.

Pre-Requisites: Biology I, Chemistry I

AP Environmental Science

Advanced Placement
2 credits

With the current changes in global climate, rising sea levels, and warming oceans, it is important for students to discover the state of Earth's systems and the consequences of human activities. AP Environmental Science provides students with a global view of their world and their role in it.

Pre-Requisites: Biology I, Chemistry I

SOCIAL STUDIES

AP US History

Advanced Placement
2 credits

AP United States History focuses on developing students' abilities to think conceptually about U.S. history from approximately 1491 to the present and apply historical thinking skills as they learn about the past. Seven themes of equal importance –American and national identity; politics and power; work, exchange, and technology; culture and society; migration and settlement; geography and the environment; America in the World—provide areas of historical inquiry for investigation throughout the course. These require students to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places.

Pre-Requisites: None required, but strong reading and writing skills are recommended.

AP Human Geography

Advanced Placement
2 credits

The AP® Human Geography course is designed to provide college level instruction on the patterns and processes that impact the way humans understand, use, and change Earth's surface. Students use geographic models, methods, and tools to examine human social organization and its effect on the world in which we live. Students are challenged to use maps and geographical data to examine spatial patterns and processes and analyze the changing interconnections among people and places.

Pre-Requisites: None

AP Psychology

Advanced Placement
2 credits

Immerse yourself in the scientific study of human behavior and cognition. Learn about notable figures and current psychological research utilizing new techniques and technologies. Investigate ethical considerations related to human and animal research.

Pre-Requisites: None

EDL - African American History

Electives
2 credits

Over the course of U.S. history, how have African Americans helped shaped American culture? This African American History course answers that question by tracing the accomplishments and obstacles of African Americans beginning with the slave trade on up to the modern Civil Rights movement. What was it like during slavery, or after emancipation, or during the years of discrimination under Jim Crow? Who were some of the main figures who have shaped African American history? In this course, you'll learn about the political, economic, social, religious, and cultural factors that have influenced African American life, come face to face with individuals who changed the course of history, and explore how the African American story still influences current events today.

Pre-Requisites: None

EDL - World Religions: Exploring Diversity

Electives
2 credits

From Taoism, to Islam, to Christianity, religion inevitably affects us all in some way. On one level, religion can help us commune with and honor our spiritual natures, but it can also divide people and create great strife in the world. World Religions: Exploring Diversity will explore the various characteristics of faith and introduce the fundamentals of the major religions, including Judaism, Islam, Christianity, Buddhism, Confucianism, Hinduism, Shintoism, and Taoism. You'll trace how these powerful faiths have influenced cultures over thousands of years and helped to shape the face of humanity. After this course, you'll have a clearer understanding of how religion continues to affect the larger world.

Pre-Requisites: None