

GREENBUSH

VIRTUAL ACADEMY

2026-2027 COURSE CATALOG

Explore. Learn. Achieve.

Flexible Learning. Personalized Success.



SERVING KANSAS STUDENTS
THROUGH INNOVATIVE
VIRTUAL EDUCATION



Comprehensive K-12
Course Offerings



College & Career
Readiness



Certified Kansas
Teachers



Flexible Learning
Pathways



District Partnerships
Across Kansas



Preparing Today's Learners
for **Tomorrow's Opportunities**

GREENBUSH VIRTUAL ACADEMY

Courses marked EX are available in the EdgeEX version. Courses available in A & B semesters unless otherwise indicated. A course marked with **STEM** may qualify as a STEM credit (consult your school district's graduation requirements).

English Language Arts

ENGLISH LANGUAGE ARTS 6

This course eases students' transition to middle school with engaging, age-appropriate literary and informational reading selections. Students learn to read critically, analyze texts, and cite evidence to support ideas as they read an array of literary and informational texts. Students sharpen their vocabulary, grammar, and listening skills through explicit modeling and ample practice. Students also engage in routine, responsive writing based on texts they have read. In comprehensive, process-based writing lessons, students write topical essays in narrative, informative, analytical, and argumentative formats. In this full-year course, students develop a mastery of reading, writing, and language arts skills.

ENGLISH LANGUAGE ARTS 7

Students grow as readers, writers, and thinkers in this middle school course. With engaging literary and informational texts, students learn to think critically, analyze an author's language, and cite evidence to support ideas. Students complete an in-depth novel study and read excerpts from stories, poetry, and nonfiction. Explicit modeling and ample opportunities for practice help students sharpen their vocabulary, grammar, and listening skills. Students also respond routinely to texts they have read. In extensive, process based writing lessons, students write topical essays in narrative, informative, analytical, and argumentative formats. In this full-year course, students develop a mastery of reading, writing, and language arts skills.

ENGLISH LANGUAGE ARTS 8

In this course, students build on their knowledge and blossom as thoughtful readers and clear, effective writers. A balance of literary and informational texts engages students throughout the course in reading critically, analyzing texts, and citing evidence to support claims. Students sharpen their vocabulary, grammar, and listening skills through lessons designed to provide explicit modeling and ample

opportunities to practice. Students also routinely write responses to texts they have read, and use more extensive, process based lessons to produce full-length essays in narrative, informative, analytical, and argumentative formats. In this full-year course, students develop a mastery of reading, writing, and language arts skills.

ENGLISH LANGUAGE ARTS 9 EX

In this thematically organized course, students read a broad variety of fiction and nonfiction, building their background knowledge across complex texts. Students draw upon what they've read to answer questions, make and support claims, analyze central ideas and details, and trace ideas across multiple texts. Students will develop and apply critical thinking and literary analysis skills as they speak, listen, read, and write—building the language arts skills they will need for college and career readiness.

ENGLISH LANGUAGE ARTS 10 EX

This sophomore English course is organized thematically, allowing students to trace ideas across multiple fiction and nonfiction texts. As students engage with what they read, they use textual evidence to support arguments and to make inferences about the author's purpose and choice of language. In this course students speak, listen, read, and write—developing and applying a range of critical thinking and literary analysis skills they will need to tackle more complex texts in upper grades, college, and careers.

ENGLISH LANGUAGE ARTS 11 EX

In this course, students journey through the history of American literature, from the early writings of Indigenous peoples and European settlers to modern texts. As students read, they are encouraged to use textual evidence to support their analyses and analyze the impact of the author's choices. Students make written and oral arguments to support claims, and they build upon previous writing skills to develop a formal and mature writing style. Students also develop their listening skills, integrating what they hear and what they read to form and communicate clear perspectives on a variety of issues.

ENGLISH LANGUAGE ARTS 12 EX

(Honors version available)

In this course, students journey through British literature as they analyze foundational fiction and literary nonfiction works. As students read, they use textual evidence to support their analyses and analyze the impact of the author's choices. Students make written and oral arguments to support claims, and they build upon previous writing skills to develop a formal and mature writing style. Students also further develop their listening skills, integrating what they hear and what they read to form and communicate clear perspectives on a variety of issues.

LITERACY & COMPREHENSION II

Offering high-interest topics to motivate students who are reading two to three levels below grade, this course works to use a thematic and contemporary approach to expose students to effective instructional principles using diverse content areas and real-world texts. This reading intervention course offers an engaging, technology-based interface that inspires and challenges high school students to gain knowledge and proficiency in the following comprehension strategies: summarizing, questioning, previewing and predicting, recognizing text structure, visualizing, making inferences, and monitoring understanding with metacognition. Aimed at improving fluency and vocabulary, self-evaluation strategies built into these courses inspire students to take control of their learning.

WRITING SKILLS

This elective English course is designed to develop critical writing skills while preparing high school students to meet the demands of college-level work. This course uses the writing process and the Six Traits of effective writing as an overarching framework that encompasses targeted lessons on reputable research, effective communication, solid grammar, and compelling style. Students will have hands-on experience writing personal reflections, definition essays, persuasive and informative pieces, and literary analyses.

ELA FOUNDATIONS

This 9th grade level English course is designed to introduce students to examining literary texts, delving

into information and argumentative texts, and identifying basic grammar and writing concepts.

INTRODUCTION TO COMMUNICATIONS AND SPEECH

Beginning with an introduction that builds student understanding of the elements, principles, and characteristics of human communication, this course offers fascinating insight into verbal and nonverbal messages and cultural and gender differences in the areas of listening and responding. High school students enrolled in this course will be guided through engaging lectures and interactive activities, exploring themes of self-awareness and perception in communication. The course concludes with units on informative and persuasive speeches, and students are given the opportunity to critique and analyze speeches. **Semester only.**

EXPOSITORY READING AND WRITING EX

This elective English course is designed to develop critical reading and writing skills while preparing high school students to meet the demands of college-level work. While students will explore some critical reading skills in fiction, poetry, and drama the focus of this course will be on expository and persuasive texts and the analytical reading skills that are necessary for college success. Students will read a range of short but complex texts, including works by Walt Whitman, Abraham Lincoln, Cesar Chavez, Martin Luther King Jr., Langston Hughes, Julia Alvarez, Edna St. Vincent Millay, and Gary Soto.

BUSINESS ENGLISH

In these courses, students will use technology to develop and research, organization, and written and oral communications skills as they relate to a business setting. Students will learn how to communicate appropriately by investigating nonverbal and verbal communication as it applies in the workplace. These skills will help prepare students for careers or employment within Business Administration and Management career pathways such as business management, administrative services, medical administration, and office management.

Mathematics

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MATHEMATICS 6

In this course, students connect ratio and rate to multiplication and division, using ratio reasoning to solve a wide variety of problems. Students further apply their understanding of multiplication and division to explain the standard procedure for dividing fractions. This course builds upon previous notions of the number system to include the entire set of rational numbers. Students begin to understand the use of variables as they write, evaluate, and simplify expressions. They use the idea of equality and properties of operations to solve one-step equations and inequalities. In statistics, students explore different graphical ways to display data. They use data displays, measures of center, and measures of variability to summarize data sets. The course also engages students in reasoning about relationships among shapes to determine area, surface area, and volume.

MATHEMATICS 7

This course features an in-depth study of proportional reasoning, during which students utilize concrete models such as bar diagrams and tables to develop conceptual understanding of rates, ratios, proportions, and percentages. Students extend their number fluency and understanding of the rational number system as they perform operations with signed rational numbers embedded in real-world contexts. In statistics, students develop meanings for representative samples, measures of central tendency, variation, and the ideal representation for comparisons of given data sets. Students develop an understanding of both theoretical and experimental probability. Throughout the course, students build fluency in writing expressions and equations that model real-world scenarios. They apply their understanding of inverse operations to solve multi-step equations and inequalities. Students build on their proportional reasoning to solve problems about scale drawings by relating the corresponding lengths between objects. Students also conduct geometric analyses of angle relationships, area, and volume of both two- and three-

dimensional figures.

MATHEMATICS 8

In this course, students use input-output relationships to build a foundation for learning about functions. Students make connections between verbal, numeric, algebraic, and graphical representations of relations and apply this knowledge to create linear functions that can be used to model and solve mathematical and real-world problems. Technology is used to build deeper connections among representations. Students focus on formulating expressions and equations, including modeling an association in bivariate data with a linear equation, and writing and solving linear equations and systems of linear equations. Students develop a deeper understanding of how translations, rotations, reflections, and dilations of distances and angles affect congruency and similarity. Students develop rules of exponents and use them to simplify exponential expressions. Students extend rules of exponents as they perform operations with numbers in scientific notation. Estimating and comparing square roots of non-perfect squares to perfect squares exposes students to irrational numbers and lays the foundation for applications such as the Pythagorean theorem, distance, and volume.

PRE-ALGEBRA EX

This course is designed for high school students who have completed a middle school mathematics sequence but are not yet algebra-ready. This course reviews key algebra readiness skills from the middle grades and introduces basic Algebra I work with appropriate support. Students revisit concepts in numbers and operations, expressions and equations, ratios and proportions, and basic functions. By the end of the course, students are ready to begin a more formal high school Algebra I study.

ALGEBRA I EX (Middle School version available)

This course focuses on five critical areas: relationships between quantities and reasoning with equations, linear and exponential relationships, descriptive statistics, expressions and equations, and quadratic functions and modeling. This course builds on the foundation set in middle grades by deepening students' understanding of linear and

exponential functions and developing fluency in writing and solving one-variable equations and inequalities. Students will interpret, analyze, compare, and contrast functions that are represented numerically, tabularly, graphically, and algebraically. Quantitative reasoning is a common thread throughout the course as students use algebra to represent quantities and the relationships among those quantities in a variety of ways. Standards of mathematical practice and process are embedded throughout the course, as students make sense of problem situations, solve novel problems, reason abstractly, and think critically.

GEOMETRY EX

This course formalizes what students learned about geometry in the middle grades with a focus on reasoning and making mathematical arguments. Mathematical reasoning is introduced with a study of triangle congruency, including exposure to formal proofs and geometric constructions. Then students extend what they have learned to other essential triangle concepts, including similarity, right-triangle trigonometry, and the laws of sines and cosines. Moving on to other shapes, students justify and derive various formulas for circumference, area, and volume, as well as cross-sections of solids and rotations of two dimensional objects. Students then make important connections between geometry and algebra, including special triangles, slopes of parallel and perpendicular lines, and parabolas in the coordinate plane, before delving into an in-depth investigation of the geometry of circles. The course closes with a study of set theory and probability, as students apply theoretical and experimental probability to make decisions informed by data analysis.

ALGEBRA II EX (Also available in Honors version)

This course focuses on functions, polynomials, periodic phenomena, and collecting and analyzing data. The course begins with a review of linear and quadratic functions to solidify a foundation for learning these new functions. Students make connections between verbal, numeric, algebraic, and graphical representations of functions and apply this knowledge as they create equations and inequalities that can be used to model and solve mathematical and real-world problems. As students refine and expand their algebraic skills, they will draw analogies

among the operations and field properties of real numbers and those of complex numbers and algebraic expressions. Mathematical practices and habits of mind are embedded throughout the course, as students solve novel problems, reason abstractly, and think critically.

PRECALCULUS EX STEM

In this full-year advanced math course, students explore the nature of functions with a focus on graphing a variety of function types. They also study complex numbers, matrices, systems, and linear programming. Students explore rational functions in depth and delve into right triangle and circular trigonometry. Students synthesize what they have learned to graph and solve trigonometric functions. They also study vectors, conics and analytic geometry, statistics and probability, mathematical modeling, and sequences and series.

HS MATHEMATICS I EX

Mathematics I is the first course in a three-year series of integrated math courses for high school. The integrated math series is an alternative to the traditional Algebra I – Geometry – Algebra II pathway, placing some Geometry in each year of instruction.

This full-year course formalizes and extends middle school mathematics, deepening students' understanding of linear relationships. The course begins with a review of relationships between quantities, building from unit conversion to a study of expressions, equations, and inequalities. Students contrast linear and exponential relationships, including a study of sequences, as well as applications such as growth and decay. Students review one-, two-, and multi-step equations, formally reasoning about each step using properties of equality. Students extend this reasoning to systems of linear equations. Students use descriptive statistics to analyze data before turning their attention to transformations and the relationship between algebra and geometry on the coordinate plane.

HS MATHEMATICS II EX

This full-year course begins with a brief exploration of radicals and polynomials before delving into quadratic expressions, equations, and functions, including a derivation of the quadratic formula. Students then embark on a deep study of the applications of probability and develop advanced

reasoning skills with a study of similarity, congruence, and proofs of mathematical theorems. Students explore right triangles with an introduction to right-triangle trigonometry before turning their attention into the geometry of circles and making informal arguments to derive formulas for the volumes of various solids.

HS MATHEMATICS III EX

This full-year course synthesizes previous mathematical learning in four focused areas of instruction. First, students relate visual displays and summary statistics to various types of data and to probability distributions with a focus on drawing conclusions from the data. Then, students embark on an in-depth study of polynomial, rational, and radical functions, drawing on concepts of integers and number properties to understand polynomial operations and the combination of functions through operations. This section of instruction builds to the fundamental theorem of analysis. In the second half of the course, students create and analyze scatterplots and study two-way tables and normal distributions. Finally, students apply probability to topics such as conditional probability, combinations and permutations, and sets.

TRIGONOMETRY EX STEM

In this one-semester course, students use their geometry and algebra skills to begin their study of trigonometry. Students will be required to express understanding using qualitative, quantitative, algebraic, and graphing skills. This course begins with a quick overview of right-triangle relationships before introducing trigonometric functions and their applications. Students explore angles and radian measures, circular trigonometry, and the unit circle. Students extend their understanding to trigonometric graphs, including the effects of translations and the inverses of trigonometric functions. This leads to the laws of sines and cosines, followed by an in-depth exploration of trigonometric identities and applications. This course ends with an introduction to the polar coordinate system, complex numbers, and DeMoivre's theorem.

MATHEMATICAL MODELS WITH APPLICATIONS

Broadening and extending the mathematical knowledge and skills acquired in Algebra I, the primary purpose of this course is to use mathematics

as a tool to model real-world phenomena students may encounter daily, such as finance and exponential models. Engaging lessons cover financial topics, including growth, smart money, saving, and installment-loan models. Students expand prior mathematical knowledge and develop new knowledge and techniques through real-world application of useful mathematical concepts.

FINANCIAL MATH

Connecting practical mathematical concepts to personal and business settings, this course offers informative and highly useful lessons that challenge students to gain a deeper understanding of financial math. Topics covered include personal financial planning, income, budgeting and wise spending, banking, paying taxes, the importance of insurance, long-term investing, and buying a house. The course also covers topics such as consumer loans, consumer credit/debt, economic principles, traveling abroad, starting a business, and analyzing business data. This course encourages mastery of math skill sets, including percentages, proportions, data analysis, linear systems, and exponential functions.

STATISTICS STEM

This fourth-year high school math option provides a comprehensive introduction to data analysis and statistics. Students begin by reviewing familiar data displays through a more sophisticated lens before diving into an in-depth study of the normal curve. They then study and apply simple linear regression and explore sampling and experimentation. Next, students review probability concepts and begin a study of random variables. Later topics also include sampling distributions, estimating and testing claims about proportions and means, and inferences and confidence intervals.

INTERMEDIATE ALGEBRA/GEOMETRY

This course includes equations and inequalities, ratios, proportional relations and percents, number properties (exponents/scientific notation), and analytic geometry (linear functions/graphing/slope). This course also includes geometry basics (angles/transversals/transformations), counting and probability, analyzing data representation and scatterplots, square roots and right triangles, two dimensional geometry (perimeter/area/constructions), and three-dimensional geometry (solid figures/area/volume).

Science

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SCIENCE 6

Science 6 is a year-long middle school level course that builds on basic principles of scientific study. Science 6 covers units on atoms, elements, and compounds, motion and forces, electricity and magnetism, weather and climate, the importance of cells, cellular energy and reproduction, genetics and heredity, and understanding organisms.

SCIENCE 7

Science 7 is a year-long middle school level course that builds on basic principles of scientific study. Science 7 covers units on atoms and the periodic table, states and properties of matter, chemical reactions, forms of energy, waves, sound, and light, the changing Earth, and organisms and the environment.

SCIENCE 8

Science 8 is a year-long middle school level course that builds on basic principles of scientific study. Science 8 covers units on Earth in the universe, history of the Earth, natural and artificial selection, plate tectonics, water on Earth, weather systems and climate change, and Earth's natural resources.

PHYSICAL SCIENCE EX

This full-year course focuses on basic concepts in chemistry and physics and encourages exploration of new discoveries in the field of physical science. The course includes an overview of scientific principles and procedures and has students examine the chemical building blocks of our physical world and the composition of matter. Additionally, students explore the properties that affect motion, forces, and energy on Earth. Building on these concepts, the course covers the properties of electricity and magnetism and the effects of these phenomena. As students refine and expand their understanding of physical science, they will apply their knowledge to complete interactive virtual labs that require them to ask questions and create hypotheses.

BIOLOGY EX

This compelling full-year course engages students in the study of life and living organisms and examines biology and biochemistry in the real world. It encompasses traditional concepts in biology and encourages exploration of new discoveries in this field of science. The components include biochemistry, cell biology, cell processes, heredity and reproduction, the evolution of life, taxonomy, human body systems, and ecology.

CHEMISTRY EX STEM

This rigorous full-year course engages students in the study of the composition, properties, changes, and interactions of matter. The course covers the basic concepts of chemistry and includes virtual laboratory experiments that encourage higher-order thinking, and applications. The components of this course include the composition and properties of matter, changes and interactions of matter, organic chemistry, and nuclear chemistry.

PHYSICS EX STEM

This full-year course acquaints students with topics in classical and modern physics. The course emphasizes conceptual understanding of basic physics principles, including Newtonian mechanics, energy, thermodynamics, waves, electricity, magnetism, and nuclear and modern physics. Throughout the course, students solve mathematical problems, reason abstractly, and learn to think critically about the physical world. The course also includes interactive virtual labs in which students ask questions and create hypotheses.

ENVIRONMENTAL SCIENCE

Environmental science is a captivating and rapidly expanding field, and this two-semester course offers compelling lessons that cover many aspects of the field: ecology, the biosphere, land, forests and soil, water, energy and resources, and societies and policy. Through unique activities and material, high school students connect scientific theory and concepts to current, real-world dilemmas, providing them with opportunities for mastery in each of the segments throughout the semester.

EARTH AND SPACE SCIENCE EX

Earth and Space Science is a course that builds on basic principles of scientific study, covering everything from basic structure of Earth to the expanding Universe. This course will cover star systems and galaxies, the sun, nuclear fission and fusion, the solar system, gravity and motion, and space technology. The course will also cover the history of the earth including fossils, geologic time, environment of earth, earth's interior and plate tectonics, rocks and minerals, weather, atmosphere, climate, and natural resources.

Social Studies

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MS MODERN WORLD HISTORY

The Middle School Modern World History course presents a cohesive and comprehensive overview of world history from the Middle Ages to the modern era. This full-year course examines the role of conflict and cooperation in shaping the modern world. Students will draw upon and further develop historical inquiry skills as they examine the expansion of global economic, political, and social interactions and question the impact they had, and continue to have, on cultures and nations. Students will explore the lasting effects that revolutions in government and technology have had on peoples, nations, and the environment. Students apply historical inquiry skills to studies of civilizations from the Middle Ages to the modern era. Students study economies and the growth of more complex trade systems, the cultures of and conflicts among peoples and places, the development of political institutions, and the rise and fall of governments. In later lessons, students examine how changes in the arts, technology, and political systems have had a lasting influence on modern civilization. Throughout the course, students analyze maps and primary sources to identify patterns and make connections across time and space. Students are exposed to diverse cultures and explore the past with historical empathy. Students encounter rigorous reading and writing activities for a variety of purposes. These activities allow students to develop literacy and writing skills, as well as critical-thinking and communication skills.

MS US HISTORY

Offering an interactive and comprehensive overview of American history, this course engages and inspires students to learn about the rich and diverse history of America's native peoples, early European colonization and settlement in America, and the creation of a new nation through the American Revolution. Middle school students enrolled in this course will closely examine major changes brought about by the nation's reconstruction, industrialization, urbanization, and progressive

reforms and consider the implications each of these events had on the expansion of the United States' global influence through modern times. Over the course of two semesters, interesting course content encourages students to think carefully about the challenges and opportunities facing the United States in the twenty-first century.

MS CIVICS, GOVERNMENT, & ECONOMICS

Exploring the structure of the United States government on a national, state, and local level, this course challenges students to learn and understand fundamental concepts and philosophies that led to the creation of the United States Constitution. Students enrolled in this course analyze the political process, political parties, and influences that affect them both. Engaging, interactive content introduces economic concepts and encourages students to explore government and economics on a global scale. By instilling a thorough understanding of government and economics, this course inspires students to investigate what it means to be an American citizen.

MS KANSAS HISTORY

This semester-long course includes a Kansas Native American Tribe Research Project, lessons on Kansas and Nebraska Act, farmers on the frontier, the dust bowl, geography, Brown v. Board of Education, culture, economy, politics, and a Famous Kansas Presentation Project.

MS GEOGRAPHY

This 7th grade course includes an introduction to geography, physical geography (Physical features and Physical systems), Human Geography (Culture, Government, Economics, and Religion) as well as the Human Impact on the Earth and Physical systems.

MODERN WORLD HISTORY EX

This full-year course examines the major events and turning points of world history from the Enlightenment to the present. Students investigate the foundational ideas that shaped the modern world in the Middle East, Africa, Europe, Asia, and the

Americas, and then explore the economic, political, and social revolutions that have transformed human history. This rigorous study of modern history examines recurring themes, such as social history, democratic government, and the relationship between history and the arts, allowing students to draw connections between the past and the present, across cultures, and among multiple perspectives. Students use a variety of primary and secondary sources, including legal documents, essays, historical writings, and political cartoons to evaluate the reliability of historical evidence and to draw conclusions about historical events. Students also sharpen their writing skills in shorter tasks and assignments, and practice outlining and drafting skills by writing full informative and argumentative essays.

US HISTORY EX

This course presents a cohesive and comprehensive overview of the history of the United States, surveying the major events and turning points of US history as it moves from the early history of the nation through modern times. As students examine each era, they will analyze primary sources and carefully research events to gain a clearer understanding of the people, events, and ideas that have shaped US history. In early units, students will assess the foundations of US democracy while examining crucial documents. Later, students will examine territorial expansion, the Civil War, and the rise of industrialization. They will also assess the outcomes of economic trends and the connections between culture and government. As the course draws to a close, students will focus their studies on the causes of cultural and political change in the modern age. Throughout the course, students will learn the importance of cultural diversity while examining history from different perspectives.

US GOVERNMENT EX

This semester **or** year-long course provides students with a practical understanding of the principles and procedures of government. The course begins by establishing the origins and founding principles of American government. After a rigorous review of the Constitution and its amendments, students investigate the development and extension of civil rights and liberties. Lessons

also introduce influential Supreme Court decisions to demonstrate the impact and importance of constitutional rights. The course builds on this foundation by guiding students through the function of government today and the role of citizens in the civic process and culminates in an examination of public policy and the roles of citizens and organizations in promoting policy changes. Throughout the course, students examine primary and secondary sources, including political cartoons, essays, and judicial opinions. Students also sharpen their writing skills in shorter tasks and assignments and practice outlining and drafting skills by writing full informative and argumentative essays.

ECONOMICS EX

This **semester-long** course invites students to broaden their understanding of how economic concepts apply to their everyday lives—including microeconomic and macroeconomic theory and the characteristics of mixed-market economies, the role of government in a free-enterprise system and the global economy, and personal finance strategies. Throughout the course, students apply critical-thinking skills while making practical economic choices. Students also master literacy skills through rigorous reading and writing activities. Students analyze data displays and write routinely and responsively in tasks and assignments that are based on scenarios, texts, activities, and examples. In more extensive, process based writing lessons, students write full-length essays in informative and argumentative formats

HUMAN GEOGRAPHY

Examining current global issues that impact our world today, this **semester-long** course takes a thematic approach to understanding the development of human systems, human understanding of the world, and human social organization. This course will challenge students to develop geographic skills, including learning to interpret maps, analyze data, and compare theories. This course encourages students to analyze economic trends as well as compare global

WORLD GEOGRAPHY

This course provides students with an understanding of themes and skills in relation to physical features, climate, ecosystems, political and cultural climate, physical environments, economies, and modern issues for various areas of the world,

including Europe, Latin America, the Middle East, North and Sub-Saharan Africa, Central and East Asia, South and Southeast Asia, Australia, Antarctica, and the Pacific World.

EARLY US HISTORY

Early US History is a course that explores the people, places, and events that shaped early United States history. This course stretches from the Era of Exploration through the Industrial Revolution. Students begin by exploring the colonization of the New World and examining the foundations of colonial society. Recurring themes such as territorial expansion, the rise of industrialization, and the significance of slavery will be examined in the context of how these issues contributed to the Civil War and Reconstruction.

Health and Physical Education

Courses marked EX are available in the EdgeEX version. Courses available in A & B semesters unless otherwise indicate

Health

HEALTH (available for Middle School and High School)

This semester course explores personal, family, and community health through the lens of real-world issues facing adolescents today. Students examine physical, mental, emotional, and social health while developing skills to make informed, responsible decisions. Topics include nutrition and physical activity, mental health and stress management, substance use prevention, disease prevention, sexual health, safety, and healthy relationships. Emphasis is placed on analyzing influences on health behaviors such as media, peers, culture, and access to health resources. Students practice communication, goal-setting, and advocacy skills to promote lifelong wellness. By the end of the course, students are prepared to apply health knowledge and skills to improve their own well-being and contribute positively to their communities.

Physical Education

PHYSICAL EDUCATION (available in MS & HS versions)

Physical Education for High School students includes 4 semesters, with the last semester focusing on Healthy Behaviors. This course explores the interconnection between physical, mental, emotional, and social health while encouraging students to make informed choices that support lifelong wellness. Students learn about physical fitness, nutrition, personal safety, and body systems through practical strategies for maintaining and improving health. The course includes guidance on first aid, environmental safety, stress management, and injury prevention. Emphasis is placed on the development of fitness programs, setting goals, and refusal skills, alongside a study of mental health, relationships, and adolescent development. Students also examine the impact of substance use, communicable diseases, and public health practices on individual and community wellness.

PERSONAL WELLNESS

This course combines a wide range of health and fitness concepts, creating a comprehensive exploration of all aspects of wellness. This course has students investigate fitness and physical health as well as learning about the nature of social interactions and how to plan a healthy lifestyle.

Exceptional Students

These courses feature supportive, scaffolded instruction for high school students who are three or more grade levels behind and include content for students with significant cognitive challenges

Social Studies

US HISTORY ESSENTIALS (2 semesters)

Students will explore five pivotal eras in United States history: Reconstruction, Progressivism and Imperialism, World Wars, Movements for Civil Rights, and the Modern Era. They will gain a deeper understanding of how these themes have shaped the nation's past and continue to influence its present.

WORLD HISTORY ESSENTIALS (2 semesters)

Students will learn foundational world history concepts and skills as they examine the Renaissance, Enlightenment and the Scientific Revolution, Imperialism, International Conflict, and Globalization/Modern Issues. Focus skills include analyzing secondary and primary sources, interpreting charts, graphs, and maps, and writing short responses and essays.

ECONOMICS ESSENTIALS (1 semester)

Students will learn basic economic concepts, including economic systems, scarcity, and economic decision making. Focus skills include interpreting supply and demand curves, determining opportunity costs, and interpreting charts and graphs.

PERSONAL FINANCE ESSENTIALS (1 semester)

Students will develop life skills that are essential for managing their money effectively. They will learn how to create and use a budget, save for future goals, and make smart investment choices. Additionally, students will gain the ability to evaluate financial decisions and plan for their long-term financial well-being.

CIVICS AND GOVERNMENT ESSENTIALS

(1 semester) Students will learn how important founding documents shaped the government of the United States. Important units of study include Introduction to Government, Foundation of US Government, The US Constitution, Branches of Government, and Civil Liberties. Focus skills include

analyzing primary and secondary sources, interpreting charts and graphs, and interpreting Supreme Court cases.

Language Arts

READING & WRITING I (1 semester)

Students will learn strategies for pre-reading and reading across fiction and nonfiction texts written at third- and fourth-grade reading levels. Focus skills include fiction elements like plot and setting, as well as nonfiction features like structure and details. Students will also learn critical vocabulary strategies.

READING & WRITING II (1 semester)

Students will learn strategies for pre-reading and reading across fiction and nonfiction texts written at fourth- and fifth-grade reading levels. Focus skills include fiction elements like characterization and narrative, as well as nonfiction features like central ideas and arguments. Students will also learn critical vocabulary strategies and compose a narrative essay.

READING & WRITING III (1 semester)

Students will learn strategies for pre-reading and reading across fiction and nonfiction texts written at fifth- and sixth-grade reading levels. Focus skills include fiction elements like conflict and theme, as well as nonfiction features like synthesizing ideas and evaluating media. Students will also learn critical vocabulary strategies and compose an essay analyzing poetry.

READING & WRITING IV (1 semester)

Students will learn strategies for pre-reading and reading across fiction and nonfiction texts written at sixth- and seventh-grade reading levels. Focus skills include fiction elements like point of view and character development, as well as nonfiction features like questioning and drawing conclusions. Students will also learn critical vocabulary strategies and compose an argumentative essay.

Mathematics

BASIC MATH I (1 semester)

Students will review whole-number operations, the relationships between operations, and the application of whole-number operations to real-world problems students will encounter in their lives as consumers and citizens.

BASIC MATH II (1 semester)

Students will review elementary fraction and decimal concepts and procedures with a focus on comparisons and benchmarks. Students will review and apply fraction and decimal operations to an array of real-world problems.

BASIC ALGEBRA (2 semesters)

Students will build on their knowledge of fractions and decimals as they explore ratios and rates and form the foundation for slope and linear relationships. They will also develop the concepts of variables and model real world relationships with expressions and equations.

BASIC GEOMETRY (2 semesters)

Students will learn about important geometry concepts like angles, perimeter, area, surface area, scale drawings, and volume. They will gain a deep understanding of these through conceptual, procedural, and real-world applications. Students will engage in problem-solving activities that connect geometric principles to everyday situations, enhancing their analytical skills and practical knowledge.

BASIC STATISTICS AND PROBABILITY

(1 semester) Students will review the essentials of data analysis as they explore data representation through graphs and summaries, learn to compare and interpret various data sets, and apply statistical tools for in-depth analysis. The course also covers probability concepts and statistical inference to make informed predictions and decisions.

Science

LIFE SCIENCE ESSENTIALS (2 semesters)

Students will explore concepts that are the foundation of the study of living organisms and their interactions with the environment. They will delve into topics such as cell biology, genetics, classification of living organisms, and human

biology. Students will develop general scientific skills and practices as they engage in critical thinking and scientific inquiry.

EARTH SCIENCE ESSENTIALS (2 semesters)

Students will learn about the Earth's composition, delving into its layers and the rocks and minerals that form its structure. Students will also explore the significance of Earth's waters, including oceans, rivers, and lakes, and investigate how weather systems and climate affect our environment. Additionally, students will discover how the Earth interacts with other celestial bodies in the solar system.

PHYSICAL SCIENCE ESSENTIALS (2 semesters)

Students will learn fundamental concepts of physical science while developing strategies in general scientific skills and practices. Topics will include energy and motion, properties and applications of waves, structures of elements on the periodic table, physical and chemical reactions, and the properties of matter.

General Electives

INTRODUCTION TO ART (available in MS version)

This full-year course offers a broad exploration of visual art through cultural, historical, and technical lenses. Students investigate how art functions in politics, commemoration, religion, and self-expression across global civilizations. Emphasis is placed on analyzing elements and principles of design, refining critique skills, and interpreting meaning through symbolism and context. Students study diverse media including drawing, painting, sculpture, ceramics, and architecture, alongside major art movements such as Renaissance, Impressionism, and Modernism.

ART HISTORY

This full year course explores the evolution of artistic expression from prehistoric cave paintings to modern art movements. Students examine how art reflects the cultural, political, religious, and social contexts of civilizations across time and geography. Major topics include classical antiquity, medieval and Renaissance developments, global contributions from Africa to the Pacific, and artistic revolutions of the 18th to 20th centuries. Through analysis of key works, artists, and movements, students learn to interpret symbolism, style, and technique.

AI LITERACY EX

This semester-length course introduces students to the fundamental concepts of artificial intelligence, including how AI systems use data, algorithms, and machine learning to make decisions and solve problems. Students explore the role of data collection, privacy, bias, and fairness in the development and use of AI technologies. The course examines how AI perceives and generates media, evaluates the credibility of AI-generated content, and recognizes the limitations of intelligent systems. Through hands-on experiences, students investigate how AI models are trained, tested, evaluated, and improved. Students also analyze the environmental, economic, and societal impacts of AI while considering responsible use, governance frameworks, and emerging policy issues. By the end of the course, students will be prepared to critically evaluate AI systems and their influence on individuals, organizations, and society.

ONLINE LEARNING AND DIGITAL CITIZENSHIP EX

In this one-semester course, students develop essential study skills for academic success, such as staying organized, managing time, taking notes, applying reading strategies, writing strong papers, and researching and properly citing information. Explicit modeling and ample practice are provided for each study skill to support student mastery. Instruction on how to be a responsible online learner is threaded throughout the course, and these skills are directly addressed in lessons on cyberbullying, staying safe online, and learning how to be a digital leader. A basic understanding of software and hardware and how to troubleshoot common technology issues are also taught. By the end of the course, students will have the tools they need to be academically successful in both traditional and digital learning environments.

INTRODUCTION TO COMPUTER SCIENCE EX

STEM

This full year course, students explore the foundational concepts of computer science through computational thinking, algorithm design, programming, data analysis, computer systems, cybersecurity, and the societal impacts of technology. They develop and test programs using Python while applying problem-solving strategies to real-world challenges. Students examine how computers store, process, and communicate information through hardware, software, networks, and data systems. The course also introduces artificial intelligence, machine learning, data visualization, and ethical considerations related to emerging technologies. Throughout the course, students evaluate the role of computing in society, including issues of privacy, security, accessibility, fairness, and public policy. By the end of the course, students are prepared to analyze problems, create computing solutions, and make informed decisions about technology and its impact on the world.

FINANCIAL LITERACY EX

This one-semester course prepares students to navigate personal finance with confidence. Students will learn what it means to be financially responsible, engaging students in budgeting, planning, and being a smart consumer. Students learn about the relationship between education, employment, income, and net worth, and they plan for the cost of college. Students broaden their study to include banking, spending, investing, and other money management concepts before exploring credit and debt.

STRATEGIES FOR ACADEMIC SUCCESS (MS version available) Offering a comprehensive analysis of different types of motivation, study habits, and learning styles, this course encourages high school and middle school students to take control of their learning by exploring varying strategies for success. Providing engaging lessons that will help students identify what works best for them individually, this course covers important study skills, such as strategies for taking high-quality notes, memorization techniques, test-taking strategies, benefits of visual aids, and reading techniques. Students will look at taking control of their academic success and applying critical thinking skills.

PERSONAL PSYCHOLOGY

This 2 semester course explores psychology and the scientific study of human behavior and mental processes, motivation, thinking and intelligence, social psychology, and the diagnosis and treatment of psychological disorders.

World Languages

Courses marked **EX** are available in the EdgeEX version. Courses available in A & B semesters unless otherwise indicated.

SPANISH I and II EX (2 semesters per language level)

High school students begin their study of Spanish language and culture with fundamental building blocks in four key areas: listening, speaking, reading, and writing. Each lesson includes activities focused on vocabulary and pronunciation, grammar, reading and writing, and listening and speaking. The course also includes video and text presentations covering people, places, and events in Spanish-speaking areas across the globe.

SPANISH III EX (2 semesters) High school students continue their introduction to Spanish with fundamental building blocks in four key areas of foreign language study: listening, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar

concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and cultural presentations covering major Spanish-speaking areas across the globe.

FRENCH I and II EX (2 semesters per language level) High school students begin their study of French language and culture with fundamental building blocks in four key areas: listening, speaking, reading, and writing. Each lesson includes activities focused on vocabulary and pronunciation, grammar, reading and writing, and listening and speaking. The course also includes video and text presentations covering people, places, and events in French-speaking areas across the globe.

Career and Technical Education (Semester Courses)

MS EXPLORATIONS OF CAREERS

This course prepares students to make informed decisions about their future academic and occupational goals. Through direct instruction, interactive skill demonstrations, and practice assignments, students learn how to assess their own skills and interests, explore industry clusters and pathways, and develop plans for career and academic development.

ANIMAL SYSTEMS

Animal Systems is a semester-long high school course that provides students with a wealth of information on livestock-management practices, animal husbandry, physiological systems, the latest scientific trends, veterinary practice, and innovations in food production. Changes in practices, regulations, and legislation for animal welfare continue as new research provides solutions to medical, ethical, and practical concerns. The course reviews current topics, such as advancements in technology and research, and defines areas of discussion while maintaining focus on best

management practices. A student might use the knowledge gained from the course to further an interest in becoming a chef, researcher, doctor, wildlife management professional, or any number of applicable careers.

BUSINESS LAW (NEW) This semester-long high school course is designed to provide students with the knowledge of some of the vital legal concepts that affect commerce and trade, after first gaining some familiarity with how laws are created and interpreted. Students are then introduced to the types of businesses that can be created as well as the contractual and liability considerations that can impact a business. Laws that affect how a business is regulated are reviewed, particularly the impact of administrative rules and regulations on a business. Global commerce and international agreements, treaties, organizations, and courts are discussed to get a better sense of what it means to “go global” with a business. Dispute resolution strategies are also addressed.

BUSINESS INFORMATION MANAGEMENT (NEW)

This full year, 10th grade level course focuses on essential skills needed in successful business careers. Students will plan, organize, direct, and evaluate business functions. They will learn how to manage, analyze, and utilize information within a business context. They will gain a deep understanding of the technologies, tools, and processes that reinforce effective information management within organizations. Students practice personal and interpersonal skills, so they can perform effectively in the workplace and in their community. Students will use hardware and software to create word-processing documents, develop a spreadsheet, formulate a database, and make a presentation. Together, these skills will help a student transition from high school to postsecondary education or the workplace.

CAREERS IN NURSING AND HEALTH CARE (NEW)

This course guides students through the landscape of healthcare careers and the systems in which they operate. Students explore nursing roles and specialties along with diagnostic, therapeutic, and informatics career pathways, and learn about certification, licensure, and registration requirements. The course covers how healthcare facilities and delivery systems function, including insurance basics and healthcare as a business, alongside an introductory look at professionalism, ethics, and patient rights. Students also examine current trends and technology shaping the future of the healthcare industry, and build practical career-planning skills such as resume writing, job searching, and portfolio development.

CAREER PLANNING & DEVELOPMENT EX

(2 Semesters) In this course, students will explore their own interests, skills, values and goals to develop a personalized career plan and build the foundational tools needed for success in the workplace or further education. The course guides students through self-assessment, investigation of career and educational options, creation of job-search documents such as résumés and cover letters, and preparation for interviews and professional workplace expectations. Students will also examine workplace trends, ethics, communication, team-work, adaptability, and lifelong learning as essential elements of career development.

CONSTRUCTION CAREERS

Construction Careers is a semester-long course that introduces high school students to the basics of construction, building systems, engineering principles, urban planning, and sustainability. Students learn the key techniques in building all types of buildings, as well as the key individuals involved in each step of the process. Many lessons present information on green building techniques and concepts that are becoming a standard part of the construction industry. Safety practices are emphasized in several lessons because construction is one of the most dangerous industries; students learn that there is no way to be successful in construction without taking such issues seriously. Lessons in this course also explore regulatory agencies and guidelines established for protecting not only construction workers but also the occupants of a building.

FOOD SAFETY AND SANITATION (2 semesters)

This comprehensive course covers the principles and practices of food safety and sanitation that are essential in the hospitality industry for the protection and well-being of staff, guests and customers. The course provides a systems approach to sanitation risk management and the prevention of food contamination by emphasizing the key components of the Hazard Analysis Critical Control Point (HACCP) food safety system. After successful completion of this course, students are prepared to meet the requirements of state and national certification exams.

FORENSICS: USING SCIENCE TO SOLVE A MYSTERYSTEM

Forensics: Using Science to Solve a Mystery is a semester-long high school course that overviews modern-day forensic science careers at work using science concepts to collect and analyze evidence and link evidence to the crime and suspects in order to present admissible evidence in courts of law. Projects in this course include simulated crime-scene investigation, actual DNA separation, development of a cybersecurity plan, and the identification of specific forensic skills used during the course of a very large murder case. The focus of

this course is to assist students in making career choices. The overview of careers includes job descriptions and availability, educational and training requirements, licensing and certification, and typical annual salaries. Students who take this class will become equipped to make more informed career choices regarding the forensic, computer science and medical science fields. At the same time, students will survey the history and scope of present-day forensic science work.

FUNDAMENTALS OF DIGITAL MEDIA

Fundamentals of Digital Media is a semester-long course that presents high school students an overview of the different types of digital media and how they are used in the world today. This course examines the impact that digital media has on culture and lifestyle. The course reviews the basic concepts for creating effective digital media and introduces several different career paths related to digital media. Students learn about the tools used as well as best practices employed for creating digital media. In the course, students explore topics such as the use of social media, digital media in advertising, digital media on the World Wide Web, digital media in business, gaming and simulations, e-commerce, and digital music and movies. Students also review the ethics and laws that impact digital media use or creation.

HUMAN BODY AND HEALTH SCIENCE A/B (2 semesters) (NEW) STEM

This course introduces students to the structure and function of the human body. It is intended for students who have completed Biology. Students begin with the building blocks of life — atoms, molecules, cells, and DNA — before progressing through tissues, organs, and body systems, including musculoskeletal, nervous, cardiovascular, respiratory, digestive, and reproductive systems. The course also covers homeostasis and regulation, and concludes with an overview of disease processes, common disorders by body system, and basic principles of prevention and treatment. This course builds the biological and anatomical knowledge needed for further study in health science.

INTRODUCTION TO BUSINESS

In this two-semester introductory course, students learn the principles of business using real-world examples— learning what it takes to plan and launch a product or service in today's fast-paced business

environment. This course covers an introduction to economics, costs and profit, and different business types. Students are introduced to techniques for managing money, personally and as a business, and taxes and credit; the basics of financing a business; how a business relates to society both locally and globally; how to identify a business opportunity; and techniques for planning, executing, and marketing a business to respond to that opportunity.

INTRODUCTION TO HUMAN GROWTH AND DEVELOPMENT

This semester-long course focuses on human growth and development over the lifespan, as well as careers that help people deal with various physical, intellectual, and socioemotional issues, such as physicians, nurses, nutritionists, substance abuse counselors, clergy, teachers, career counselors, psychologists, and psychiatrists. The course provides a background in human growth and development from before birth, through childhood, into adulthood, and through death and grief. It gives the student perspective and highlights where people in the caring professions are most needed. Students who take this course will come away with a broad understanding of all the careers that help people from birth to death.

MEDICAL TERMINOLOGY STEM

This full-year course introduces students to the structure of medical terms, plus medical abbreviations and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to health care settings, medical procedures, pharmacology, human anatomy and physiology, and pathology. The knowledge and skills gained in this course provide students entering the health care field with a deeper understanding of the application of the language of health and medicine. Students are introduced to these skills through direct instruction, interactive tasks, practice assignments, and unit-level assessments.

PATIENT CARE FUNDAMENTALS (NEW)STEM

This course introduces the foundational knowledge and skills needed to work safely and ethically in a patient care setting. Students learn about the roles of the healthcare team, the scope of the nursing assistant role, and how to apply legal and ethical

standards including HIPAA, patient rights, and recognizing abuse or neglect. The course covers essential communication skills, infection control and workplace safety practices, and basic emergency awareness. Students are also introduced to core patient care concepts such as activities of daily living, body mechanics, positioning, and vital signs, preparing them for hands-on application in later coursework.

PATIENT CARE APPLICATIONS (NEW)STEM

Building on Patient Care Fundamentals, this course focuses on applying patient care skills in practical, hands-on scenarios. Students practice mobility and positioning techniques, including ambulation, transfers, and range of motion, and develop skills in monitoring patients through vital signs, intake/output tracking, and pain and skin assessment. The course introduces conceptual understanding of common procedures such as oxygen therapy, catheter care, and specimen collection, along with proper observation, reporting, and documentation practices. Students also learn to care for special populations, including individuals with dementia, mental health needs, and those receiving end-of-life care, and practice applied decision-making in emergency situations such as falls, seizures, and choking.

PHARMACY TECHNICIAN STEM

This two-semester course prepares students for employment as a Certified Pharmacy Technician (CPhT) and covers the skills needed for the pharmacy technician field. Through direct instruction, interactive skills demonstrations, and practice assignments, students learn the basics of pharmacy assisting, including various pharmacy calculations and measurements, pharmacy law, pharmacology, medical terminology and abbreviations, medicinal drugs, sterile techniques, USP 795 and 797 standards, maintenance of inventory, patient record systems, data processing automation in the pharmacy, and employability skills. Successful completion of this course prepares the student for national certification for employment as a CPhT.

SMALL BUSINESS ENTREPRENEURSHIP

This full-year course is designed to provide the skills needed to effectively organize, develop, create, manage and own a business, while exposing students to the challenges, problems, and issues faced by entrepreneurs. Throughout this course, students explore what kinds of opportunities exist for small business entrepreneurs and become aware of the necessary skills for running a business. Students become familiar with the traits and characteristics that are found in successful entrepreneurs, and see how research, planning, operations, and regulations can affect small businesses. Students also learn how to develop plans for having effective business management, financing and marketing strategies..

eDynamic Learning Electives

AMERICAN SIGN LANGUAGE 1 (2 semesters)

This beginning of this full-year course will introduce you to vocabulary and simple sentences, so that you can start communicating right away. Importantly, you will explore Deaf culture: social beliefs, traditions, history, values and communities influenced by deafness. The second semester will introduce you to more of this language and its grammatical structures.

FORENSIC SCIENCE 1: SECRETS OF THE DEAD

STEM Fingerprints. Blood spatter. DNA analysis. The world of law enforcement is increasingly making use of the techniques and knowledge from the sciences to better understand the crimes that are committed and to catch those individuals responsible for the crimes. Forensic science applies scientific knowledge to the criminal justice system. This course focuses on some of the techniques and practices used by forensic scientists during a crime scene investigation (CSI). Starting with how clues and data are recorded and preserved, the student will follow evidence trails until the CSI goes to trial, examining how various elements of the crime scene are analyzed and processed.

HISTORY OF THE HOLOCAUST

Holocaust education requires a comprehensive study of not only times, dates, and places, but also the motivation and ideology that allowed these events. In this course, students will study the history of anti-Semitism; the rise of the Nazi party; and the Holocaust, from its beginnings through liberation and the aftermath of the tragedy. The study of the Holocaust is a multi-disciplinary one, integrating world history, geography, American history, and civics. Through this in-depth, semester-long study of the Holocaust, high school students will gain an understanding of the ramifications of prejudice and indifference, the potential for government-supported terror, and they will get glimpses of kindness and humanity in the worst of times.

MUSIC APPRECIATION

Music is part of everyday lives and reflects the spirit of our human condition. To know and understand music, we distinguish and identify cultures on local and global levels. This course will provide students with an aesthetic and historical perspective of music, covering a variety of styles and developments from the Middle Ages through the Twentieth First Century. Students will acquire basic knowledge and listening skills, making future music experiences more informed and satisfying.

MYTHOLOGY & FOLKLORE

Mighty heroes. Angry gods and goddesses. Cunning animals. Since the first people gathered around fires, mythology and folklore has been used as a way to make sense of humankind and our world. Beginning with an overview of mythology and different kinds of folklore, students will journey with ancient heroes as they slay dragons and outwit gods, follow fearless warrior women into battle, and watch as clever monsters outwit those stronger than themselves. They will explore the universality and social significance of myths and folklore, and see how these are still used to shape society today.

SOCIOLOGY (2 semesters)

Sociology 1 covers units on what is sociology, our culture, socialization, social structure and group behavior, deviance and crime, social stratification and class, inequalities of race and ethnicity, and gender. Sociology 2 covers units on marriage and family, religion and education, the economy and politics, sport and entertainment, population and environment, cities and urban life, collective behavior and social movements, and social change.