Forward International Academy

2024-2025

High School

COURSEBOOK

US UNIVERSITY PATHWAYS

Forward International Academy
821 East Washington Avenue
Madison, WI 53703

Table of Contents

INFORMATION ON COURSE DESIGN AND DELIVERY

Welcome to the 2024-25 edition of the Forward International Academy's high school coursebook. In the pages that follow, you will find titles and descriptions for interesting, fun and challenging courses in the core and elective areas. The majority of courses are asynchronous and, therefore, lend themselves to *self-paced* learning environments. In these courses, however, all assessments are auto-graded.

Assessments will have retries automatically enabled so that students can submit or resubmit assessments more freely. These courses are comprised of purely auto graded assessments that are scored by the Forward International Academy Learning Management System (LMS), and automatic feedback is delivered to the student by the LMS. The curriculum was specifically designed to engage students in an age appropriate and multimodal learning environment with innovative supports proven to maximize and accelerate learning. The content is horizontally and vertically aligned so units and lessons fall into a logical sequence.

Lessons include learning objectives, activities, assignments, assessments, and resources to provide multiple learning opportunities for students to master the standards needed for success. The instructional design incorporates established principles of effective explicit instruction that contribute to all student achievement including advanced students or students at risk of failing to meet standards.

Each lesson folder typically contains one or more of the following learning objects: **Read It, Practice It, Watch It, Play It, Show It, Answer Keys (AK), Checkpoint, Reinforce It, Extend It, and Apply It.** This instructional design breaks down information into bite-sized chunks and accommodates various learning styles. All courses have access to the text-to- speech toolbar.

The courses follow a consistent instructional design with numbered lesson folders containing one or more learning objects. Students are assessed in Assess Its (similar to a quiz), Mastery Assess Its (similar to a unit test), midterms (in year-long courses), and final exams. **Year-long courses consist of 180 lesson folders and semester courses (1 and 2) consist of 90 lesson folders.** Forward International Academy recommendation is for students to complete one lesson folder a day in a 50–60-minute time period. Essay questions and activities will contain a submission box where students can type their responses or draw, insert images, create and insert video clips, insert charts, and/or attach files.

Each course has a course resource folder that contains one or more of the following: a parent teacher guide, pacing guide, and a supply/materials list. Some courses may contain other lists in this folder (e.g. Reading List, Addition Chart, etc.).

Support, communication, intervention and feedback from Forward International Academy staff will be a mainstay for our students as we chart a course for success for our learners! We look forward to working with our partners and families!

Formal Learning Roles

Learners

Duties include engaging in learning activities on a daily basis according to the established learning plan, seeking help when needed to continuously improve while mastering the content, pursuing excellence in every subject to increase overall potential and achievement, advocating for self and others as a part of a learning culture, demanding to be challenged and supported by teachers and staff.

Lead Teacher

Duties include serving as the Point of Contact for International Students, Coordinating level appropriate Professional Development opportunities with staff, developing support materials to communicate general information and procedures with stakeholders, supporting Instructors in implementing student instruction as needed, supporting proctoring of tests, working with staff to establish a supervision schedule for supervising resource spaces (virtual and physical) for students who need structured space, ensuring effective onboarding of parents, supporting the implementation of project-based learning opportunities, supporting the development of synchronous and collaborative learning opportunities for learners, and assisting with communication of mission and vision.

Highly Qualified Course Instructor

Duties include monitoring student progress, grading assignments, providing feedback for students to improve quality of work, individual virtual teaching sessions by appointment, responding to messages and submissions within 24 hours (Monday - Friday). Full time Instructors will also provide weekly synchronous opportunities for learning through a variety of discussions, direct instruction, coordinated learning labs and workshops, or as appropriate for engaging students in active learning experiences.

Teacher Advisor / Point of Contact

Duties include daily monitoring of student progress toward personalized learning plans (PLP), daily communication with students in advisory, communication with their students' learning team as needed, notifying Learning Liaison of attendance/truancy concerns, and responding to messages within 24-hours (Monday - Friday).

Learning Liaison

Duties include encouraging student success, helping advisors with daily communication with parents and students, coordinating communication between learners and instructors, assisting with proctoring tests, supporting administration with attendance and truancy concerns, enrolling students in courses, and responding to messages within 24-hours (Monday-Friday).

Curriculum Specialist

Duties include onboarding new students and establishing learning plans for students, maintaining regular communication with each family to foster connection and inspire excellence, presenting the vision and mission of Forward International Academy, encouraging growth and appropriate risk-taking to innovate and continuously improve, supporting curriculum, instruction, and student learning, supervising technology and curricular resources/licensing, reporting regularly to the Principal, and implementing improvement plans as approved by the administration.

Administrator

Duties include monitoring truancy referrals, communicating with parents through regular school communique channels, leading and defining school improvement plans, monitoring teacher and school improvement plans, evaluating staff and student performan

English Language Arts Courses

African American Literature

African American Literature is a survey course that spans the history of America as it relates to the lives of African Americans. Students explore the forcible transport of individuals from Africa to America, the publication of narratives of enslaved men and women, the abolition of slavery under President Lincoln, the civil rights movement, and the presidency of Barack Obama. Students explore the powerful and influential roles that African Americans have played in U.S. history. They discover the contributions of African American activists, artists, and authors through literature and nonfiction texts such as biographies, autobiographies, memoirs, court cases, historical texts, and litigations.

American Literature

In American Literature, students explore various cultural periods of American literature. They examine numerous aspects of Romanticism, literature from multiple historical eras of the United States, and contributions made by significant American leaders. In addition to discovering multiple genres and investigating numerous periods of writing, students also explore the basics of literature, writing, and grammar.

British Literature

British Literature provides students with a survey of literature in this genre. Students explore the Anglo-Saxon and medieval eras, the English Renaissance, and the Restoration and Enlightenment periods. They analyze how authors from this region have traditionally constructed texts and developed prominent and long-lasting literature. In this course, students examine a variety of styles and use the vocabulary that is characteristic of literature pieces they are reading. This course offers students numerous chances to discuss, analyze, synthesize, and evaluate the texts they read through a wide range of writing and thinking exercises.

College Writing

Introduction to College Writing prepares students to create freshman writing pieces as they move toward their post-secondary education. In this course, they learn the skills necessary to build a solid foundation for basic college writing as they focus on informative and persuasive writing. Students practice organization, tone, and style in their work to ensure that they are well-rounded and skilled writers. Finally, students discover how to locate and present research and evidence in a logical, well-organized manner.

Creative Writing

Creative Writing 2 is a course in which students discover, analyze, and apply the methods and styles used in various forms of fiction, creative nonfiction, drama, and poetry. It emphasizes experimentation and practice, and it encourages students to take cues from published writers and poets. Students express themselves while learning various genres and their respective writing rules. Students also explore related topics, including word choice, diction, form, editing,

idea generation, and other skills useful in nonfiction writing. Students do a great deal of writing in this course.

Debate

In the Debate course, students learn crucial debate terminology, speech strategies, and persuasive techniques. Students investigate rhetoric and learn to consider multiple and divergent perspectives. Throughout this course, students develop the skills necessary to execute a well-versed and effectively supported argument. This study of supporting claims with credible evidence will allow students to engage in effective persuasive discourse.

English 9

English 09 launches a four-year journey during which students will confidently master grammar, develop advanced communication skills, and learn to analyze and appreciate challenging literature. The course begins with grammar fundamentals including sentence structure, parts of speech, and phrases and clauses. Students' vocabulary will expand through a study of technology, literary terms, and words with multiple meanings. Culturally diverse texts will emphasize literary elements and techniques while an overview of short and long prose will delve into excerpts from classic literature and Shakespeare. This will expand the students' literary world. Writing skills will advance as students learn and apply the steps for creating a research paper. The course includes coverage of effective speaking and listening.

English 10

English 10 begins with a major focus on grammar to help students become stronger writers. Students then analyze literary genre elements in various excerpts of classical stories. A novel study and play accompany the course to study for analysis, as well. Students compare informational texts and have various writing projects. For example, they write an analytical essay on a short story and a persuasive essay that they also present as a speech. Their research paper is about a topic they choose in which they construct a multi-media presentation to accompany it. Additionally, this course includes work-related documents with students constructing their own resumés and letters.

English 11

In English 11, students focus on the development of American Literature and compare it with ideas and forms of literature around the world. Students review the basics of the language arts, then scaffold with practices of increasing complexity to meet the required grade-level objectives of analytical thinking. Engaging in a step-by-step process, students learn to write complex analyses and argument papers. Students also learn principles in research, teamwork, discussion, and presentation skills. A play and novel highlights literary devices with supporting literature. Additionally, students explore college and career planning as well as tips for dealing with information in technology today.

English 12

This course challenges students with rigorous and rewarding assignments. Students will explore the development of English language and survey famous British fiction authors. They will examine the effect of time upon literary works, as well as make advanced studies of drama, plot

structures, devices, and motivations. Students will probe nonfiction texts as well as read and analyze British literature. Conducting research, organizing ideas, and preparing presentations, students will create an argumentative persuasive text, a story with conflict and resolution, a poem, a script, and an analytical essay. In addition, students will learn to write for real-life situations such as e-mail and professional resumés. Students will apply critical thinking skills to gain perspective on the media and analyze speeches.

English Grammar

Students enrolled in English Grammar explore basic, intermediate, and advanced concepts of grammar, language, style, and composition. By analyzing word meaning and function, students will generate content using appropriate grammatical expressions. Students will examine provided writing samples and their own compositions to enhance their skills.

Exploring Cinema

Lights! Camera! Action! Theater and cinema are both forms of art that tell a story. Let's explore the enchanting world of live theater and its fascinating relationship to the silver screen. Explore the different genres of both and how to develop the script for stage and film. Then dive into how to bring the script to life with acting and directing. If you have a passion for the art of film and stage, let's bring your creativity to life!

Gothic Literature

From vampires to ghosts, these frightening stories have influenced fiction writers since the 18th century. This course will focus on the major themes found in Gothic literature and demonstrate how the core writing drivers produce, for the reader, a thrilling psychological environment. Terror versus horror, the influence of the supernatural, and descriptions of the difference between good and evil are just a few of the themes presented. By the time students have completed this course, they will have gained an understanding of and an appreciation for the complex nature of dark fiction.

Greek And Roman Mythology

In Greek and Roman Mythology, students explore myths from Greece and Rome. They examine the history of mythology and some of the key gods and goddesses. Students learn to connect the cultures of ancient Greece and Rome with the culture of today. Throughout this course, students use technology and artistic practices to express their knowledge. In addition, they explore vocabulary, literary, and narrative elements, in addition to writing through the lens of mythology. Students work through the process of writing myths of their own through planning, drafting, revising, and publishing.

Journalism 1

Learn how to write a lead that really "grabs" your readers, interview sources effectively, and write engaging news stories. You will explore the history of journalism and see how the modern world of social media can provide an excellent platform for news. Turn your writing, photography, and collaborative skills into an exciting and rewarding journalism career!

Journalism 2

Building on the prior prerequisite course, go beyond the world of print and discover how journalism can lead to exciting careers that will put you right in the action. Learn how to cover important events while honing your research and observational skills. Discover how journalism can shape your future and others.

Literary Genres

Literary Genres is a senior level course in which students will explore and analyze a variety of literature. A grammar review precedes a study of rhetorical and literary devices, and a brief survey of the major literary forms. Students will read a variety of fictional selections and stories including The Canterbury Tales, various mythologies, Beowulf, Hansel and Gretel, Dracula, and Edgar Allen Poe's "The Masque of the Red Death." Students will better understand drama after reading excerpts from William Shakespeare's plays and will contemplate timeless poems by Robert Frost, Emily Dickinson, Walt Whitman, Lord Byron, and other poets. Comparing and contrasting speeches by Barack Obama and Ronald Reagan will assist students in analyzing persuasive texts. The course concludes with a look at perspective in nonfiction texts such as diaries and autobiographies.

Media Writing

Media Writing is designed for students who are interested in careers in broadcast journalism, communications, or media. Students explore the basics of media writing in addition to careers in print, online, and broadcast media. Students investigate the numerous styles of writing for a number of applications, including newspapers, magazines, audio broadcasts, video broadcasts, and the Internet. In addition, students practice researching, locating, and using sources that are reliable and valid. Topics include: Jargon, Leads, News Article Analysis, Writing for a Magazine, Solid Conclusions, Blogging.

Poetry

Poetry is a course for students who are interested in learning more about different types of poetry and writing their own poetry. In Poetry, students explore the elements of a poem, including theme, poetic devices, rhyme, meter, and word choice. Students evaluate different poetic structures and draft and create their own poems in these structures. In this course, students use evidence to support analysis, conduct research, and write research papers. examine your speeches and presentations and those of others to improve upon your presentation.

Reading And Writing For Purpose

This course introduces useful, real-world information by having students learn to read legal, insurance, employment, and vehicle related documents. Furthermore, students will explore media bias, trends in journalism, word structures, and research strategies. To entrench real-world applications, students will learn how to critically read, identify good sources of information, and create an outline, making this course an asset to building life and study skills.

Short Stories

Short Stories exposes students to the basic characteristics, writing style, and literary elements of a story. From characters, point of view, and setting to techniques such as suspense and irony, students learn how short stories provide readers with the opportunity to experience different storylines in a precise and defined format. Students become acquainted with the compact nature of the short story literary form and each author's ability to weave exciting, interesting narratives in such short, tight spaces. Students learn the importance of being concise, recognizing that good literature does not necessarily have to be lengthy in order to be captivating.

Speech Communication

Speech Communication seeks to improve the interpersonal and public communication skills of students. Surveying the communication process, students will learn the components and functions of communication, differentiate between oral and nonverbal communication, and comprehend the listening process. Developing familiarity with self and personal strengths and weaknesses, students will boost self-confidence as public speakers in situations such as speeches or interviews. The course will culminate with students applying their acquired communication skills in researching, preparing, and giving a speech.

Technical Writing

Written communication skills and documentation in the business environment are central to the Technical Writing course. This course enables students to understand a variety of documents and allows them to perfect their technical writing abilities. From journal writing, email, and directional writing to memos and letter drafting, students encounter numerous types of technical writing and build upon their technical skills and knowledge.

The Lord of the Rings: An Exploration of the Films and Their Literary Influences*

The Lord of the Rings is one of the most popular stories in the modern world. In this course, you will study the movie versions of J.R.R. Tolkien's novel and learn about the process of converting literature to film. You will explore fantasy literature as a genre and critique the three Lord of the Rings films.

World And Cultural Mythology

World and Cultural Mythology is the perfect course for students looking for an interactive way to learn about mythology and myths from around the world. The course focuses on different dynamics of myths and analyzes aspects of myths found in different cultures. The course looks at the type of writing styles used in different myths, including common terminology, sentence structure, and writing techniques. Finally, students evaluate mythical places and sacred locations, including the characters commonly found in myths, such as gods, goddesses, monsters, heroes, and deities.

World Literature

In World Literature, students explore a wide variety of literary styles, artists, and mediums from cultures and societies around the globe. Students analyze different forms of writing, including

fiction and nonfiction, and they evaluate how authors from different areas, religious backgrounds, genders, and cultures use the written word to express thoughts and opinions and tell poignant stories.

Mathematics Courses

Advanced Algebra

Passing Advanced Algebra satisfies minimum college admissions requirements. Students will be introduced to matrices, apply Cramer's Rule in solving linear systems, and solve graphs and equations of conic sections. Using graphs, factoring, and the quadratic formula, students will solve quadratic equations, inequalities, and functions. Students will investigate how to graph, factor, invert and solve polynomials, as well as solve rational expressions, radical expressions, fractional exponents, and rational inequalities. Students will examine the properties, transformations, and applications of exponential and logarithmic functions. Applying probably and data analysis, students will determine probability and model data. The final unit will present trigonometric concepts to prepare students for advancing to trigonometry.

Algebra 1

In Algebra I, students explore variables, function patterns, graphs, and equations. They will describe and translate graphic, algebraic, numeric, and verbal representations of relations and use those representations to solve problems. Students will develop computational, procedural, and problem-solving skills throughout this course, building a solid foundation for further study in mathematics.

Algebra 2

In Algebra II, students analyze situations verbally, numerically, graphically, and symbolically. Students solve equations and inequalities. They extend their knowledge of algebraic expressions, absolute value, functions, and graphs. The Algebra II course prepares students for more difficult mathematical concepts and content.

Algebra Readiness

This class reviews middle school concepts to help students to prepare for success in high school courses. It provides robust coverage of the basic concepts of algebra, algebra prerequisites, and related math curriculum standards. Algebra Readiness does not provide coverage of non-algebra middle school mathematics topics, such as probability, statistics, and geometry.

AP Calculus AB

This two-part course on Calculus follows the objectives of the CEEB Advanced Placement Program. This course covers the concept of Limits: algebraically, numerically, graphically, and verbally. The course then continues with a formal definition of the derivative and finishes with the chain, product and quotient rules for derivatives. Finally, students use the ideas of limits and derivatives to study the concepts in context with engineering, physics, and business applications. Part two picks up with the study of two types of integrals, using integrals to solve accumulation problems, area problems, volumes of rotation, solving separable differential equations and introductory integration techniques. Students are given the opportunity to take The Advanced Placement Exam in May. Each student will be required to have a TI-84+ graphing

calculator. Students will also need ready access to a computer and the internet. **(NOTE: The cost of the AP Exam is approx. $95.00 for each student who chooses to take the exam.)**

AP Calculus BC

This course is a continuation of a study on Calculus following the objectives of the CEEB Advanced Placement Calculus BC Program. This course reviews the concept of limits, derivatives and integration using the rule of 4: algebraically, numerically, graphically and verbally. The course will then cover topics on Improper Integrals, Infinite Series including radii of convergence and convergence tests, parametric functions, polar functions, vectors as well as further studies in solving differential equations. Students are given the opportunity to take the Advanced Placement Calculus BC Exam in May. Each student will be required to have a TI-84+ graphing calculator. Students will also need ready access to a computer and the internet. Students planning to take the AP exam are eligible to take the AP Calculus Study Course during Trimester 3. **(NOTE: The cost of the AP Exam is approx. $95.00 for each student who chooses to take the exam.)**

AP Statistics

This two-part course on Statistics follows the objectives of the CEEB Advanced Placement Program. This is a college level, non-calculus based course. This course is designed to present strategies for collecting, organizing, analyzing, and drawing conclusions from data. Students will work on projects involving the hands on gathering and analysis of real-world data. They will learn to interpret and judge the statistical information in the world around them. Computers and calculators will allow students to investigate and explore statistical concepts. Effective communication skills will be developed through regular written analysis of real data. The course content and learning activities will prepare students for the AP Exam and possible college credit. Each student will be required to have a TI-84+ graphing calculator. They will also need ready access to a computer and the internet. **(NOTE: The cost of the AP Exam is approximately $95.00 for each student who chooses to take the exam.)**

Applied Math

Applied Mathematics covers the fundamental mathematics necessary for students to obtain a broad range of skills. Although problems in this course apply to a variety of topics from Algebra to Geometry, emphasis is given to real-world applications.

Students write and solve linear equations to represent situations such as the value of a car or the distance that a plane travels during a trip. They also learn to solve quadratic equations and find the maximum value of quadratic equations. Students explore area, perimeter, and volume, and then they apply these concepts to situations such as building a swimming pool.

Students calculate conversions between the U.S. customary system of measurements and the metric system. Geometry concepts presented in this course include the Pythagorean Theorem, using similar triangles, finding dimensions, and interpreting scale on a map. Finally, students use statistical concepts to interpret data sets and turn those data sets into graphical representations.

Business Mathematics

In Business Mathematics, students discover a variety of basic mathematical concepts and tools for real-word mathematical application including algebraic equations, formulas, operations using fractions, decimals, and percentages. This course shows students how to work with percentages to solve application problems and how to research investment and insurance options. Students learn to graph a function from an equation, and they work with ratios and proportions. Additionally, students explore the proper methods of preparing and analyzing income statements and balance sheets. They also study the ways in which to calculate real estate loan payments, and they learn to read and interpret graphs to represent data in the business world. This course also discusses mean, median, and mode as it relates to the distribution of data.

Calculus

Calculus evaluates higher-level mathematics through analytical/ algebraic, numerical, graphical, and verbal methods. Students study various components of mathematics, including the investigation of trigonometric functions, probability, and
series. Students will strengthen their skills with Pre-Calculus and Trigonometry concepts in preparation for post-secondary coursework. Having a strong calculus knowledge base supports all students, but mostly those students who are interested in careers in the mathematics and engineering fields.

Consumer Mathematics

In Consumer Mathematics, students learn mathematical concepts that they will use in their daily lives. They focus on real-world topics that require addition, subtraction, multiplication, and division of whole numbers, as well as fractions, decimals, ratios, proportions, and percentages. Students also explore the ways in which real-life activities such as traveling, purchasing a new car or house, or even installing new carpeting relates to mathematics. Consumer Mathematics relates everyday mathematics concepts to concrete definitions, processes, and many real-life situations.

Geometry

This course, dealing primarily with two-dimensional Euclidean geometry and solid geometry, promotes the development of logical reasoning skills and is useful in many life situations. Beginning with the fundamental concepts of line segments and angles, students will progress to conditional statements, geometric and algebraic proofs, and line relationships. In studying polygons, students will learn the properties of triangles, quadrilaterals, and circles along with geometrical concepts including the Pythagorean Theorem and the relationship of Pi (π) to circumference and area in a circle. In the study of solid geometry, students will learn how to determine area and volume for prisms, cylinders, pyramids, cones, and spheres. Students will apply learned geometric skills in working with ratios, similarities, transformations, and symmetry before concluding the course with an inquiry into the fundamentals of trigonometry.

Math Models

The Math Models course applies mathematical concepts to real-life situations. The course begins with a review of basic math concepts before presenting an overview of geometry,

probability and statistics, and problem solving. Students will learn to conduct and analyze research by collecting and describing data using graphs and models that find application in disciplines as diverse as science, trigonometry, art, architecture, and music. Students will employ theoretical, empirical, and binomial probability to predict the likelihood of outcomes. Using math models, students will better understand personal finance issues including compensation, budgeting, taxes, bank accounts, and compound interest. Applying math models to analyze the pros and cons of credit cards, renting or purchasing a home, leasing or purchasing a vehicle, and investments and insurance will enable students to be smarter consumers.

Pre-Algebra

Pre-Algebra provides standards-based coverage of all of Grade 8 Math, including a robust introduction to the basic concepts of algebra and its prerequisites.

Pre-Calculus

Precalculus explores a wide variety of mathematical concepts with the goal of preparing students for calculus or other college-level math courses. A review of number properties, factoring, the quadratic formula, and the Cartesian coordinate system will prepare students for advanced math concepts. Students will use graphing calculators to plot graphs and solve equations. Students will learn to solve a variety of problems including parent functions, transformations, even and odd functions, domain and range, operations, linear functions, regression, correlation, quadratic functions, polynomials, asymptotes, and exponential, logistic, and logarithmic functions. Trigonometric studies include angle measurement, arc length, functions, reciprocal and quotient identities, Pythagorean identities, sines, and cosines. Sequences and series precede inquiries into the characteristics and applications of conic sections and vectors. The course concludes with an investigation into parametric equations and polar equations.

Probability and Statistics

Students enrolled in Probability and Statistics build a strong foundation in calculating probabilities and evaluating statistics. Students enrolled in the course explore representation of statistical data, working with scatter plots, analyzing statistical data using properties and theorems, and more.

Trigonometry

Trigonometry is offered for students who want to continue a rigorous study of mathematics. The course begins by reviewing the real number system, characteristics of functions, and solving equations. Topics from right-triangle trigonometry lead to an in-depth study of the unit circle and trigonometric functions, their graphs, and their inverses. In their study of analytic trigonometry, students verify identities and solve trigonometric equations. The course covers the Law of Cosines, the Law of Sines, and vectors. It closes with a complete study of conics, parametric equations, and polar curves.

Science Courses

Anatomy and Physiology 1

Within Anatomy and Physiology, students will explore the fascinating dynamics of the human body. Students begin by exploring the history of anatomy, essential anatomical terminology, and the hierarchical organization of the human body. From there, students will be introduced to basic biochemistry and cellular processes, and they will take a virtual tour of the cell. Students also investigate the structure, function, hierarchy, and diseases and/or disorders of each organ system.

Anatomy and Physiology 1: Introduction

Increase your understanding about the form and function of the human body! Starting with the relationship between anatomy and physiology, you will then learn about cell structure and their processes. Discover the functions and purposes of the skeletal, muscular, nervous, and cardiovascular systems as well as diseases that affect those systems. Becoming familiar with the terminology of the human body is essential to those pursuing health sciences or wanting to gain a greater sense of how the human body works.

Anatomy and Physiology 2

Within Anatomy and Physiology, students will explore the fascinating dynamics of the human body. Students begin by exploring the history of anatomy, essential anatomical terminology, and the hierarchical organization of the human body. From there, students will be introduced to basic biochemistry and cellular processes, and they will take a virtual tour of the cell. Students also investigate the structure, function, hierarchy, and diseases and/or disorders of each organ system.

Anatomy and Physiology 2: Discovering Form and Function

Students will learn about the structure, function, and interrelation between the lymphatic, immune, respiratory, digestive, urinary, and the endocrine systems. The reproductive system is also discussed along with hereditary traits and genetics. Finally, students will explore the importance of accurate patient documentation as well as technology used in the industry.

Archaeology

Imagine what it must feel like to uncover an artifact from the past! Archaeology helps us to better understand, through discovery and analysis, how ancient civilizations have shaped the modern world. Explore the techniques, methods, and theories Archaeologists use to conduct their studies to locate and unlock the secrets of a long and colorful past. Let's get exploring!

Astronomy

In Astronomy, students begin by discussing basic astronomical concepts and discoveries throughout history. They take an in-depth look at the first moments of the universe by studying the Big Bang. From there, they investigate the evolution of the universe, beginning with the first atoms and moving on to explore elements, stars, solar systems, and galaxies. Students gather information to determine if there is a possibility of life on other planets and in other solar

systems. Students analyze the major space missions that have led to the modern study of cosmology, and they explore the possibilities of where this field may take scientists in the future.

Biology

In Biology, students will develop appreciation for the living world. A brief history of biology followed by an investigation of the basic unit of life—the cell—will prepare students for deeper research. Students will explore topics concerning genetics, including meiosis, heredity, and DNA. Students will consider natural selection, origin of life theories, and the mechanics of evolution. An exploration of "little critters" such as bacteria precedes a study of plant structures, processes, and reproduction. Students will inquire into animal behavior and characteristics as they study invertebrates, amphibians, reptiles, birds, and mammals, among others. An inspection of nutrition and disease will lead students to examine human body systems. The course will conclude with an analysis of the interdependence of living things in ecosystems.

Chemistry

A foundational branch of physical science, the principles and laws of chemistry find many applications in business, technology, health care, and other fields outside traditional scientific areas. Beginning with a look at measurements, calculations, data analysis, and the scientific method, students will investigate the properties of elements, compounds, and mixtures. A survey of the history of theories of atomic structure will lead students to Mendeléev's periodic table and an inspection of periodic law. Next, students will apply atomic theory in the study of molecular and chemical bonding interactions through chemical formulas, reactions, and stoichiometry. Students' knowledge will expand as they learn about the states of matter, gas laws, solutions, acids and bases, thermochemistry and reaction kinetics, and oxidation-reduction reactions. The course concludes with inquiries into organic chemistry, biochemistry, and nuclear chemistry. Throughout the course, there are lab investigations, including video labs, to reinforce science concepts and skills.

Earth Science

In Earth Science, students will learn about different Earth systems, how they interact with each other, and how humans impact these systems. Students will look at the scientific basis for land, water, atmosphere, and biosphere systems; discuss several environmental problems; analyze possible solutions; delve into laws already in existence; and discuss any future laws. Critical thinking will be required, as well as the ability to argue points from both sides of an issue. Throughout the course, there are lab investigations, including video labs, to reinforce science concepts and skills.

Ecology

Ecology is the study of how organisms interact with each other and their environment at the population, community, and ecosystem levels. This course allows students to explore the ways in which organisms interact with their surrounding environments. Students will investigate ecological principles, such as natural selection, population and population dynamics,

biodiversity, and the sustainability of ecosystems. Students also analyze major ecological challenges and the different ways society is working to mitigate these challenges.

Environmental Science

The purpose of this course is to enable students to develop knowledge of the ways that humans interact with the natural environment. The focus is on implementation of scientific habits of mind; application of scientific knowledge, methodology, and historical context to solve problems; earth dynamics; the influence of technology on environmental quality; environmental quality issues; and conservation and biodiversity.

Great Minds in Science

Sometimes there are simply more questions than answers. Does life exist on other planets? How extreme is the human ability to survive? Will the issue of global warming ever be solved? Today, scientists, explorers, and writers are working to answer such questions by using extensive inquiry to find innovative solutions. Similar to such famous minds from history as Edison, Einstein, Curie, and Newton, the scientists of today are finding ways to revolutionize our lives and the world. Great Minds in Science: Ideas for a New Generation takes an in-depth look at the extraordinary work of these individuals and demonstrates how their ideas may very well shape the world of tomorrow.

Advanced Biology

Advanced Biology moves at a faster pace and in greater depth than Biology. Students will develop an appreciation for the living world. A brief history of biology followed by an investigation of the basic unit of life—the cell—will prepare students for deeper research. Students will explore topics concerning genetics, including meiosis, heredity, and DNA. Students will consider natural selection, the origin of life theories, and the mechanics of evolution. An exploration of “little critters” such as bacteria precedes a study of plant structures, processes, and reproduction. Students will inquire into animal behavior and characteristics as they study invertebrates, amphibians, reptiles, birds, and mammals, among others. An inspection of nutrition and disease will lead students to examine human body systems. The course will conclude with an analysis of the interdependence of living things in ecosystems.

Advanced Chemistry

Advanced Chemistry moves at a faster pace and in greater depth than Chemistry. A foundational branch of physical science, the principles, and laws of chemistry find many applications in business, technology, health care, and other fields outside traditional scientific areas. Beginning with a look at measurements, calculations, data analysis, and the scientific method, students will investigate the properties of elements, compounds, and mixtures. A survey of the history of theories of atomic structure will lead students to Mendeléev’s periodic table and an inspection of the periodic law. Next, students will apply atomic theory in the study of molecular and chemical bonding interactions through chemical formulas, reactions, and

stoichiometry. Students' knowledge will expand as they learn about the states of matter, gas laws, solutions, acids and bases, thermochemistry and reaction kinetics, and oxidation-reduction reactions. The course concludes with inquiries into organic chemistry, biochemistry, and nuclear chemistry. Throughout the course, there are lab investigations, including video labs, to reinforce science concepts and skills.

Advanced Physics

Advanced Physics moves at a faster pace and in greater depth than Physics. In this course, students will learn physics concepts, including matter and energy, motion and force, speed, velocity, and acceleration in order to better understand how the universe behaves. A survey of the historical development of physics as a foundational branch of science will lead to recognition of the contributions of Newton, Einstein, Planck, and others. Students will apply physics concepts as they study gravity and acceleration, momentum, motion, and energy. The concepts of work and power will become evident as students learn how machines use torque and force to accomplish work. Students will recognize the roles of each fundamental force as well as investigate electrostatics, thermodynamics, wave forms, particles, and quantum physics. Following an examination of the nucleus, radioactivity, fission, and fusion, the course concludes with the theories of special and general relativity. Throughout the course, there are lab investigations, including video labs, to reinforce science concepts and skills.

Aquatic Science

In Aquatic Science students will test, predict, and learn about water and things pertaining to water. The first unit will guide students to think of water as a system. Learning the chemistry and physics of water, students will complete a course project by applying scientific methods to collect and analyze data on a local body of water. A survey of the physical properties of the ocean, including their formation and composition, will precede an inquiry into how the atmosphere and sun interact with the hydrosphere to create weather. Students will examine the elements and properties of aquatic ecosystems, including aquatic biology and marine and freshwater ecosystems. In the final unit, students will consider the relationship between humans and water, including challenges such as population growth competing for resources with agriculture and industry.

Physics

In this course, students will learn physics concepts, including matter and energy, motion and force, speed, velocity, and acceleration in order to better understand how the universe behaves. A survey of the historical development of physics as a foundational branch of science will lead to recognition of the contributions of Newton, Einstein, Planck, and others. Students will apply physics concepts as they study gravity and acceleration, momentum, motion, and energy. The concepts of work and power will become evident as students learn how machines use torque and force to accomplish work. Students will recognize the roles of each fundamental force as well as investigate electrostatics, thermodynamics, wave forms, particles, and quantum physics. Following an examination of the nucleus, radioactivity, fission, and fusion, the course

concludes with the theories of special and general relativity. Throughout the course, there are lab investigations, including video labs, to reinforce science concepts and skills.

Sports Medicine

Sports Medicine provides students with basic knowledge of the history of sports medicine, the anatomy of the body, and the common injuries that occur in sports. In addition, the course discusses techniques used in sports medicine to train and strengthen the body, treatments for injury and disease, and proper nutrition for athletes.

Veterinary Science

Lions and tigers and bears (oh my!) Whether you want to step into the wild side of veterinary medicine or just take care of the furry dogs and cats down your street, Veterinary Science: The Care of Animals will show you how to care for domestic, farm, and wild animals and diagnose their common diseases and ailments. Learn how different veterinary treatments are used and developed to improve the lives of animals and, as a result, the lives of those people who treasure them. If you have always been drawn to the world of our furry, scaly, and feathered friends, this may be just the course for you!

Social Studies Courses

1960S America

The 1960s America course gives students a look at life during this exciting and monumental decade. This course covers the social, political, and cultural movements and changes that occurred in the 1960s. Students explore different historical events and determine how these events impacted American citizens during the decade and afterward. The course also focuses on significant headlines of the 1960s to give students a realistic perspective of this decade.

AP Psychology

You probably have two reasons for taking AP Psychology. The first reason is that you are interested in learning about your behavior and others' behavior in depth. You will likely find some mystery to solve or some question to answer as you study this course. The second reason is that you want to be prepared to take the AP Psychology test in May so you can earn college credit. If those are your reasons, you will probably succeed in this course. **Additional fees may apply, including the cost of the AP exam.**

AP US Government

This course is designed to help students to be prepared for taking the AP US Government exam in May. It will provide opportunities to self-assess, learn material, and practice testing to help you to master the material so that you can potentially earn college credit. **Additional fees may apply, including the cost of the AP exam.**

AP Human Geography

This course is designed to help students to be prepared for taking the AP US History exam in May. It will provide opportunities to self-assess, learn material, and practice testing to help you to master the material so that you can potentially earn college credit. **Additional fees may apply, including the cost of the AP exam.**

AP US History

This course is designed to help students to be prepared for taking the AP US History exam in May. It will provide opportunities to self-assess, learn material, and practice testing to help you to master the material so that you can potentially earn college credit. **Additional fees may apply, including the cost of the AP exam.**

AP World History

This course is designed to help students to be prepared for taking the AP World History exam in May. It will provide opportunities to self-assess, learn material, and practice testing to help you to master the material so that you can potentially earn college credit. **Additional fees may apply, including the cost of the AP exam.**

African American History

How have African Americans shaped the culture of the United States throughout history? Tracing the accomplishments and obstacles of African Americans from the slave trade through

emancipation, and to the modern African diaspora, you will learn about the political, economic, social, religious, and cultural factors that have influenced African American life. In African American History, you'll come face to face with individuals who changed the course of history and learn more about slavery, racism, and the Civil Rights Movement. You will also explore how the history of African Americans influences current events today.

Ancient History

Ancient History enables students to explore the cultures of ancient civilizations throughout the world. They discover each civilization's contributions to art, music, literature, education, religion, science, technology, government, and philosophy. Students explore aspects of humanity from prehistoric to about 500 CE.d.

Criminology

Why do certain people commit horrible acts? Can we ever begin to understand their reasoning and motivation? Perhaps. The mental state of a criminal can be affected by many different aspects of life: psychological, biological, sociological, all of which have different perspectives and influences. Investigate not only how these variables affect the criminal mind but also how crimes are investigated and handled in the criminal justice system.

Economics

The Economics course begins with a survey of the basic principles concerning production, consumption, and distribution of goods and services within the free enterprise system. Students will examine the rights and responsibilities of consumers and businesses, analyze the interaction of supply, demand, and price, and study the role of financial institutions. Types of business ownership, market structures, and basic concepts of consumer economics will be surveyed. The impact of a variety of factors including geography, government intervention, economic philosophies, historic documents, societal values, scientific discoveries and technological innovations on the national economy, and economic policy will be an integral part of the course. Students will also examine the knowledge and skills necessary as self-supporting adults to make critical decisions relating to personal financial matters such as seeking college financial aid, using credit wisely, and balancing financial accounts.

Government

U.S. Government commences its examination of the grand American experiment in democracy with a general overview of the purpose, types, origin, and formation of governments. Students will explore how colonial self-rule, English law, and weaknesses in the Articles of Confederation influenced the formation of the U.S. Constitution. Students will investigate the principles of the Constitution and the federal system. The purpose, powers, and relationships among the American institutions of self-government—Congress, Presidency, and the Judiciary—will be examined as well as federal, state, and local governments. Students will become aware of their civic responsibility to vote and participate in the governmental process as they gain understanding of the functions and organization of political parties, the evolution of the two-party system, and the influence of public opinion and political ideology on government decisions.

History Of The Holocaust

"Never shall I forget that night, the first night in camp, which has turned my life into one long night, seven times cursed and seven times sealed." Elie Wiesel, a Holocaust survivor, wrote these words about his experiences in a Nazi concentration camp. History of the Holocaust will take you through the harrowing details of anti-Semitism, the power of the Nazi party, the persecution of European Jews and other groups, and the tremendous aftermath for everyone involved in World War II. You'll explore the causes of the Holocaust, the experiences of Jews and other individuals during this time, and what has been done to combat genocide since WWII. "For the dead and the living, we must bear witness."

Human Geography

Modern humans have been roaming the earth for about 200,000 years. How do the places we live influence the way we live? How do geography, weather, and location relate to our customs and lifestyles? In Human Geography: Our Global Identity, you will explore the diverse ways that different people have physically influenced the world around them and how they, in turn, are changed by their surroundings. Discover how beliefs and ideas spread through time, shaping and changing the cultures they encounter. In this course, you'll gain tremendous insight into human geography and begin to better understand the important relationship between humans and their environments.

Law

In the Law course, students examine citizen obligations to law enforcement, the court system, and the rules and regulations that all Americans are expected to uphold. They explore the terminology and the regulations that structure and control society. Students study different types of crime and the law enforcement powers that are put in place to regulate and diminish overall crime. Students who are interested in a law career will benefit from learning the law and justice terminology presented in this course.

Peer Counseling

Are you a great listener and love to help people achieve their goals? The role of a peer counselor is a rewarding one. Learn the skills of observation, listening, and emphatic communication that counselors need, while also discovering basic training in conflict resolution and group leadership. You'll learn how to be a great peer counselor, but also how to communicate effectively in personal and work relationships.

Philosophy

Have you ever thought about 'deep' questions like "Who am I?" "What do I really know about the world?" If so, you're not alone. Philosophers are some of the most brilliant and influential thinkers, some of whom have influenced many of our fundamental ideas in Western civilization, such as government, law, and society. Learn about famous philosophers and explore some of the same questions these great thinkers pondered.

Political Science

Political Science is an introduction to political science as an academic discipline. Students discover the origin, creation, and function of different political systems within the United States

and across the globe. Students explore political theories, such as systems theory and the social contract theory. Additionally, students examine economic concepts, how countries interact with one another, international governmental organizations and nongovernmental organizations, and the role of media in politics while developing skills in research methodology.

Psychology

In Psychology, students explore the science of explaining and controlling human behavior. Psychology plays an integral part in everyday life because all decisions, relations, and emotions are closely tied to behavior and genetics. Within this course, students look at behavior, and they consider prominent psychologists who have made impressive and monumental discoveries through testing, research projects, and proving theories. Students study everything from the anatomy of the brain to psychological disorders.

Social Problems 1

War, crime, poverty, global warming—our world often seems full of dire warnings and predictions. How can we make sense of it all and still dare to step outside each day? Social Problems 1: A World in Crisis will explore some of the biggest challenges facing our world today and prepare you to tackle them head-on. You'll learn what led to these social problems, what effects they have on our lives and societies, and what possible solutions exist for solving them. Whether you want to save the world from the next pandemic or better understand the effects of the media on society, this course will help you develop a plan of action!

Social Problems 2

It may seem like we live in a sometimes scary and ever-changing world. Everywhere we look—from the homeless living on the streets, to world-wide health epidemics, to the often-negative effects of our global world—problems seem to appear at every corner. In Social Problems 2: Crisis, Conflict, and Challenges, you'll explore more of the challenges we face and learn what we can do to reduce the effects of these conflicts and problems. From drug abuse to terrorists to the changing nature of communities in our digital world, we can better face and solve these problems when we have a deeper understanding of their causes and influences on our lives.

Sociology

In the Sociology course, students explore the various topics and sociological terminology necessary for understanding and exploring the field. Students investigate major sociological perspectives and the famous sociologists who invented and contributed to them. Additionally, students determine how researchers perform valid and reliable sociological studies. This course is ideal for students who are interested in pursuing post-secondary careers in sociology, psychology, law, or other social sciences.

US History Colonies to Civil War

Students will study American history by exploring important historical moments from the discovery of the New World right up through the American Civil War. Students learn about colonization and European Imperialism, conflicts of the French Indian War, the Revolutionary War, The War of 1812, Westward Expansion and the blight of slavery, culminating in the Battle Between the States.

US History Reconstruction to WWII

Students will study American history by exploring important historical moments from the Reconstruction era through the end of World War II. Students learn about the industrialization of this growing nation and the economic and social changes it underwent as the nation transitioned from an agricultural society to an industrial society. Students also analyze the challenges the nation faced as it was forced to choose between isolation and involvement in international armed conflicts. This course guides students as they interpret the extraordinary changes the nation went through after the American Civil War and examine how those changes ultimately led to the United States' emergence as an international power at the conclusion of World War II.

World Cultures

World Cultures explains global geography, history, and culture to students. In this course, students study the major political powers of each era and discover how the world's earliest civilizations developed through the Age of Exploration to the Industrial Revolution. In the second half of the course, students examine a world at war, navigating the Great War, nationalist movements in Russia and Asia, World War II, the Cold War, Third World independence, and struggles for democracy. The course closes with discussions of current global issues such as terrorism, technology, economy, pollution, and renewable energy.

World Geography

In World Geography, students will learn the six essentials of geography: spatial terms, places and regions, physical systems, human systems, environment and society, and uses of geography. After a broad survey of Earth's structure, hydrosphere and climates, the focus of each Unit narrows to a particular region of the world. By examining the physical geography of each region, including water resources, climate, vegetation, and natural resources, students will understand the influence of geography on economic activities, human culture, and history. In addition, students will investigate the impact of human activity on the environment, including pollution and development, and consider the implications.

World History

World History is a survey of the development of civilizations from prehistoric times to the present. The journey begins with ancient civilizations including Mesopotamia, Egypt, and China, and the foundations of western civilization: ancient Greece and Rome. Students will analyze developments in Africa, Asia, and Europe during the Middle Ages, including the Crusades. Students will understand how the Renaissance and Reformation provided a springboard for the Age of Reason and the Scientific Revolution. An inquiry into events such as the American War of Independence and French Revolution will prepare students to consider the great advances and social upheaval sparked by the Industrial Revolution. Students will probe the causes, events, and consequences of the two world wars and the rise and fall of Communism. The course concludes with a look at developments shaping current events.

World Religions: Exploring Diversity

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.

General Elective Courses

Bible Literacy 1

The Old Testament (OT) course will equip students with a basic literacy of the Hebrew scriptures. The course begins with an examination of the major divisions, authorship, and translations of the OT before surveying each individual book. The second Unit examines the impact of the OT on worldview, society and morals, family, human fallibility, modern science, and the value of human life. Students will recognize the impact of Hebrew scriptures on important events and historical documents including the Reformation, the Magna Carta, and the U.S. Constitution. Students will next probe the influence of the OT on language, culture, and literature, including idioms, Shakespeare's Macbeth, Handel's Messiah, Milton's epic poem Paradise Lost, and spirituals. The course will conclude by introducing students to the influence of OT on artworks including The Creation of Adam by Michelangelo.

Bible Literacy 2

The New Testament (NT) course will equip students with a basic literacy of the NT scriptures. To begin, students will explore the history and characteristics of the NT, survey each book, and recognize the centrality of Jesus of Nazareth. An inquiry into the Christian era will inform students of the NT impact on children, slavery, women, marriage, and education. Students will investigate the profound influence of the NT on politics, limited government, and the concept of justice as seen in important American events including the American Revolution and the U.S. Constitution. Students will understand the effect of the NT on literature after reading selections from Great Expectations, Uncle Tom's Cabin, and other literature. The course concludes with an examination of artwork related to NT events including the life, death, and resurrection of Jesus Christ.

Logic

This course will improve the critical thinking skills of students through the study of informal logic. The course will challenge students to evaluate whether humans are rational or emotional beings. The majority of the course explores occurrences of faulty reasoning known as logical fallacies. Students will learn to recognize and expose fallacies when evaluating and critiquing arguments. Fallacies covered include appeal to fear, irrelevant thesis, straw man, false analogy, red herring, and misuse of statistics. Students will apply the study of types, components, and principles of argumentative dialogue in preparing a dialogue of their own. During the course, students will consider and analyze Aesop's Fables and "The Cave" by Plato. The course concludes with a comprehensive review of fallacies and a preview of formal logic.

Women's Studies: A Personal Journey Through Film

This course, although looking specifically at the experiences of women, is not for girls only. If you are a student interested in exploring the world through film and open-minded enough to be interested in social change, this course is for you.

Personal Financial Literacy Courses

Financial Literacy

Financial Literacy is an important tool in defining and managing personal goals, overcoming financial challenges and providing the tools to protect the current state of your financial security. It is also a life skill that enables you to understand how to earn money, save money and borrow money.

Personal Finance

The Personal Finance course is intended to prepare students to be successful financial citizens. They will learn their role and responsibilities as a responsible financial planner and saver as well as learn about the services, functions, and products of the financial industry. In addition, they will make informed buying decisions and understand personal taxation, wills, insurance, and contracts. Finally, they will learn about saving and investing as well as consumer credit and loans.

Health and Fitness Courses

Health: Life Management

Imagine the healthiest people you know . . . what's their secret? While some health traits are genetically determined, the truth is we all can make positive changes in our physical lives. Students will learn how to promote better health by decreasing stress and finding a fuller vision of your life. Explore different lifestyle choices that can influence your overall health, from positively interacting with others, to choosing quality health care, to making sensible dietary choices. You will have the opportunity to build your own plan for improvement and learn how to create the type of environment that will ensure your overall health, happiness, and well-being. The course concentrates on the principles of being healthy and focuses on physical development, mental and emotional stress, relationships, substance awareness, social disease awareness, and personal safety. Students develop critical life management skills necessary to make sound decisions and take positive actions for healthy and effective living.

Health: Nutrition and Personal Fitness

High School Nutrition and Personal Fitness helps students to recognize the impacts that nutritional choices and personal fitness play within their lives. Students learn practical ways to control their health through nutrition, exercise, and stress management. Students discover that physical fitness will help them to feel good.

Physical Education

The course concentrates on performance of individual and team sports, with explanations of proper technique, rules of the game, and preparation. Students can perform each sport on their own time while keeping a log of their activity, thus incorporating activity into their lives, and gaining lifelong healthy fitness habits.

Physical Fitness PBL

Students may earn PE credits through a personal learning plan created with student, advisor, and other key individuals to demonstrate learning targets through project-based opportunities.

Humanities Courses

American Sign Language 1: Introduction

American Sign Language 1 will introduction 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.

American Sign Language 2: Learn To Sign

American Sign Language 2 will introduce you to more of this language and its grammatical structures. You will expand your vocabulary by exploring interesting topics like Deaf education and Deaf arts and culture.

American Sign Language 3: Communicating

Building upon the prior prerequisite course, you will progress your communication skills and foster your understanding of deaf culture. You will learn about classifiers, glossing, and mouth morphemes, as well as how to give descriptions and directions.

American Sign Language 4: Adv Communication Skills

Building upon the prior prerequisite course, students will increase their proficiency by learning about sequencing, transitions, role-shifts, and future tenses. Students will learn how to tell a story and ask questions, benefiting with greater exposure to deaf culture.

Animation 1: Introduction

Have you ever watched a cartoon or played a video game where the animation of characters captivated you so much you wanted to create your own? If so, it's time to immerse yourself in the world of animation. Meet the industry players such as directors, animators, and 3D modelers. Develop your story by exploring design, the 12 principles of animation, creating a storyboard, and leveraging the tools of the trade. Let's bring your story to life with animation!

Animation 2: Animating Your Creativity

It's time to start animating like the pros! In this hands-on course, you'll immediately start exploring the software Blender, your gateway to 3D modeling, computer animation, and postproduction procedures used in the film industry. Discover 3D modeling and animation of characters. Explore the basics of human anatomy and form to apply rigging, joints, and texture. Examine rendering and lighting effects and how to apply sound. And discover careers so you can start using your new skills right away.

AP Spanish 1 & 2

This course is designed to help students to be prepared for taking the AP Spanish exam in May. It will provide opportunities to self-assess, learn material, and practice testing to help you to master the material so that you can potentially earn college credit. **Additional fees may apply, including the cost of the AP exam.**

Art History

Art History will help students develop skills to recognize and appreciate the diversity of art. The course begins with prehistoric and ancient art before introducing students to the classical art of the Greeks and Romans. Students will survey medieval art before exploring the glory days of art and architecture, the Renaissance. The use of light and shadow to evoke emotion during the Baroque period will impress students as will the whimsical style of the Rococo period. Students will contrast the Neoclassical return to idealized subjects with the Romantic era's imagination. Appreciation of art will grow as students study Impressionist and Post-Impressionist artists such as Monet and Van Gogh. The course concludes with students tracing modern art movements, including expressionism, minimalism, as well as conceptual art and artists, including Rodin, Picasso, Mondrian, and O'Keeffe.

Art In World Cultures

Art in World Cultures will enable students to develop knowledge of the history and theory of art and the relationship between artist, artwork, and society. Students will research and critique periods, styles, and works of art from early civilizations through the Middle Ages. Emphasis will be placed on the role of works of art based on subject matter, theme, concept, symbolism, or allegory/metaphor.

Digital Arts

Digital Arts will focus on using a digital camera and practical application of digital imaging programs. Students will learn how to place images in photos and how to mock-up drawings of three-dimensional spaces.

Commercial Photography

Commercial Photography develops students' skills in the areas of digital photography, professional communication, and design. Commercial Photography is about more than simply taking a photo. It involves marketing, teamwork, management, design, and much more. Students learn concepts such as how to work with clients, edit images, pose portraits, style scenes, use a camera in manual mode, use the principles of design, prepare for their career, and create images with purpose. Real world projects and a broad scope of the career give students insight to what it is like to work in the creative production industry. Students leave Commercial Photography I with a wealth of knowledge and an industry-ready portfolio.

Commercial Photography 2

Commercial Photography II advances students' skills in the areas of digital photography, professional communication, and design. Students are introduced to new concepts such as leadership, business ownership, conceptualization, architectural photography, stock photography, inspiration, and more. Through real world projects and a broad overview of different career paths in photography, students gain insight into what working in the creative production industry requires. The projects help students set goals and plan for their own future. Commercial Photography II students are encouraged to explore and take photos as often as possible. Students leave Commercial Photography II with a wealth of knowledge and an industry-ready portfolio.

Music Appreciation

Music Appreciation stimulates personal growth when listening to music by exposing the student to a large variety of music with provided listening maps indicating applicable music terminology. Students will be able to explain personal music preference and identify how music is impacted by technology, social values, and daily life of the composers. Students develop an understanding of composer's intent and the ability to rationalize personal interpretation of music works. Similarities and contrasts in music throughout the eras are identified as well as how previous compositions impact future compositions. This course is well suited for advanced upper-level secondary students who plan to focus on music during their post-secondary studies.

Theater, Cinema, and Film Production 1: Introduction*

Lights! Camera! Action! Theater and cinema are both forms of art that tell a story. Let's explore the enchanting world of live theater and its fascinating relationship to the silver screen. Explore the different genres of both and how to develop the script for stage and film. Then dive into how to bring the script to life with acting and directing. If you have a passion for the art of film and stage, let's bring your creativity to life!

Theater, Cinema, and Film Production 2: Lights, Camera, Action!

Lights, camera, action … take two! Whether you're a performer, critic, or fan, you'll pull back the curtain to dive deeper into the making of movies and theater performances. Explore multiple facets of the production process from both theater and film. Gain insights from industry leaders along the way and learn to think critically about different aspects to develop your unit-by-unit blog. You'll fully understand how high-quality entertainment and art are crafted for the theater and the silver screen.

Vocational: Agricultural

Agriscience 1

This course will prepare students for careers in agriscience. Agriculture is the world's largest industry, so the critical nature of understanding how agriculture must thrive in unpredictable conditions cannot be overstated. Throughout the modules, students will gain an understanding of some of the fundamental issues in agriscience, including safety, environmental factors such as climate change and extreme weather conditions, plant and animal science, and food safety. Additionally, students will explore how they can emerge as leaders in such a complex and exciting industry!

Agriscience 2

In this course, students will explore the various components of agriscience careers and agricultural living. Beginning with career exploration, students will become familiar with the vast array of opportunities that exist in agriscience. They will discover what is necessary for the proper care and management of livestock from keeping living quarters clean to caring for newborn animals. Students will understand the ways in which plants, crops, and vegetation thrive in varying conditions. They will explore the fundamentals of running a successful agriscience operation as well as how agriscience affects and is affected by global economic conditions.

Agriscience 3

This course further delves into agriscience as a core global business. Students will explore fundamental business operations and structures as well as financial considerations. Students will understand the nutritional needs of livestock in order for them to be free from disease and be able to thrive in good health. Plants are heavily dependent on proper fertilization, irrigation, and nutrition to prosper. Thus, students will take a comprehensive look at the systems necessary to produce bountiful crops. The course will be rounded out learning about the tools and techniques needed to run an agriscience business and harvest crops.

Forestry And Natural Resources

Our precious woodland species not only supply us with aesthetic beauty but also play a valuable role in nature. Trees uphold a great deal of our wildlife's ecosystem while providing us humans with needed lumber, paper products, and even food. But these forests cannot protect themselves and depend greatly on humans for conservation. In Introduction to Forestry and Natural Resources, you will learn more about this meaningful relationship and how environmental policy, land use, water resources, and wildlife management all factor into current forestry issues.

Veterinary Science

Whether you want to step into the wild side of veterinary medicine or just take care of the furry dogs and cats down your street, Veterinary Science: The Care of Animals will show you how to care for domestic, farm, and wild animals and diagnose their common diseases and ailments. Learn how different veterinary treatments are used and developed to improve the lives of animals and, as a result, the lives of those people who treasure them. If you have always been

drawn to the world of our furry, scaly, and feathered friends, this may be just the course for you!

Vocational: Business Courses

Advertising

Throughout the Advertising course, students discover the various ways that advertisements touch their lives. This course presents a comprehensive introduction to the field of advertising, which includes its purpose and the theory behind it. In this course, students learn to identify target markets, distinguish different types of business, and interpret the information they gather to create a winning advertising plan. Students investigate the needs and wants of both the consumers to whom they are advertising and the companies for which they are creating the advertisement. Lessons will cover the basic skills and knowledge required to work in the advertising world and will guide students through the creation of a complete advertising plan. Students in this course are presented with a realistic idea of what a career in advertising entails.

Business Applications

In Business Applications, students focus on business software and the corresponding skills required in the business world. The course begins with an overview of computers, including hardware, software, and operating systems. Students explore spreadsheet, word processing, presentation, and database software and discover how to fulfill a customer request using these skills. They also study web-based applications and additional software packages and learn about Internet technology. Students investigate common security concerns and discover how to prevent security issues. Finally, students experience the software development cycle where they learn how various professionals utilize business applications. They discover the importance of moral and ethical responsibility in an online community. Students must possess basic spreadsheet, word processing, and presentation software skills before entering this course. Additionally, students must be independent learners, and they must be comfortable learning new technology and researching software features and functions.

Business Communications: Introduction*

This course is designed to teach students the kind of writing and speaking used in business, from the routine report to the long formal report. Students will learn to prepare a professional resume and how to have a successful in a job interview. Focus will also be on the legal aspects of writing official communications that touch on people's civil rights.

Business Information Management 1*

Students will build their career skills and strengthen their knowledge of business information management by exploring types of businesses and the elements of business planning. Learning about the initial requirements to start a business, students will then examine business finances, marketing, sales, and the importance of customer service. Computer hardware, networks, and the internet are discussed as well as the basics of web design. Lastly, students will explore ethics and business law, giving each learner an opportunity to discover their passion for business.

Business Information Management 2*

Building on the prior prerequisite course, you will become more familiar with the application of information management in business. You will learn about professional conduct, teamwork, and managerial skills while also examining careers in business technology. The basics of word processing, spreadsheets, databases, and presentation software are explored while you become comfortable operating each of these programs. Finally, the future of business technology is discussed, providing you a foundation in business information management.

Business Law 1: Introduction*

Whether you plan on starting your own business or being in charge of one, it is crucial you understand how to keep the company compliant. Explore what it means to run an ethical business, how to keep intellectual property, technology, and e-commerce safe and protected, understand insurance and taxes, and how to have a healthy workplace environment. Keep the business safe and growing by following the law.

Business Law 2: Legal Aspects of Business*

Whether you plan to start your own business, work for an organization, or go into law, it's essential to understand more complex legal requirements that impact business operations and decisions. This is especially true as companies grow and expand domestically and internationally. Explore the differences between criminal and civil law. Examine how state and federal regulations work to protect consumer and employees' rights, protect society and the environment, and understand how business contracts can work to protect everyone.

Business Management

Business Management guides students through examples of their roles as wage earners, consumers, and citizens as they explore the wide, exciting world of business. Students examine topics ranging from extensive credit use to the role of government in the U.S. economy. Students are encouraged to take Introduction to Business as a prerequisite to Business Management, as Business Management dives deeper into the different aspects of managing a business successfully.

Business, Marketing, And Finance: Principles 1

Provide students with fundamental knowledge that will help them pursue a career in business! Students will explore different types of businesses and ownership forms, the impact of governments on business, and the marketing of goods and services. Students will also be expected to learn about globalization, free trade, and various economic systems. Finally, the impact of technology on business, business ethics, and social responsibility are discussed, providing students with a foundational knowledge of business.

Business, Marketing, And Finance: Principles 2

Building on the prior prerequisite course, you will expand your knowledge of the basics to explore advanced topics, such as marketing strategy, banking, and investments. Finally, examine employability skills and careers in business, finance, and marketing as well as various entrepreneurship opportunities.

Business: Introduction

In Introduction to Business, students explore their roles as wage earners, consumers, and citizens as they discover the wide, exciting world of business. In this introductory course, students investigate topics pertaining to investment strategies and business communications that are vital for success in today's economy. Students analyze the impact of marketing and the role of the government in the realm of business and economy.

Communications

In this course, students explore various aspects of communication. They investigate the foundations of communication by analyzing, applying, and designing creative works essential to the professional communications industry. This course establishes a comprehensive foundation for students interested in a post-secondary career in communications.

Entrepreneurship 1 & 2

The Entrepreneurship course is designed to grow the student's passion for starting, growing, and excelling in business ventures. The student will explore the basics of starting a business, from brainstorming great concepts, to execution and profitability. Entrepreneurship includes more than just starting businesses, but explores the ventures of product development, marketing, distribution, and sales. The student will expand his or her knowledge in the areas of proper product and service pricing, financial planning and growth, accounting and bookkeeping, fundraising, marketing research, and business law. The course asks the student to practice the knowledge and skills he or she has gained by developing and writing a business plan for their very own business venture. The student will gain a complete understanding of what it takes to make a business a success and possibly gain a desire to actually start a company from scratch.

Entrepreneurship 1: Introduction*

Starting a business is more than just having a good idea. Successful entrepreneurs know how to use and apply fundamental business concepts to turn their ideas into thriving businesses. Explore topics such as identifying the best business structure, business functions and operations, finance, business laws, regulations, and more! If you have ever dreamed of making a business idea a reality, take the time to establish a solid foundation of business skills to make your business dreams come true!

Entrepreneurship 2: Make Your Idea a Reality*

You have the business idea; now it's time to go from dream to reality. Throughout this course, you'll explore different topics representing the major parts of a business plan, such as risk, hiring, pricing, marketing, and more. By completing activities, you'll create a viable document you can use to help you start your business by the end of the course. Let's bring your dream to life!

Management 1: Introduction*

From the shift managers at small businesses to the CEOs of large companies, effective management is key to any organization's success. Explore foundational management concepts such as leadership, managing teams, entrepreneurship, global business, finance, and technology and innovation. Engage in a capstone that pulls all of the concepts you've learned

together, allowing you to see how management ideas can be applied to a business case study. Get started with learning the fundamentals of successful management.

Management 2: Insight and Oversight*

Every business and company needs management of some type. But what skills must you master in order to become an effective professional? Explore the ins and outs of this career, the responsibilities businesses have towards customers, and hiring the right employees. Gain an understanding of human resources (HR) to ensure job satisfaction and take action to ensure that all rules and laws are being followed. Learn how to become an effective manager in any field.

Marketing 1: Introduction*

Welcome to the fast-paced and exciting world of marketing! You will learn about the role of marketing in business in addition to the basics of business management, customer service, and economics. Also, you will examine how to identify target markets, perform market research, and develop successful marketing strategies. Finally, the legal and ethical considerations of business and marketing are discussed along with the impact of government on business.

Marketing 2: Building Your Base*

Building on the prior, prerequisite course, you will dive deeper into the marketing world with real world applications and practices. Engage with the marketing mix by studying understanding branding, advertising, promotion strategies, and more. Learn about effective sales techniques and discover employment opportunities to pursue a career in this exciting field!

Marketing 3: Global Business and Trade*

In this course, you'll find out how business and marketing works around the world! You'll learn about topics such as regulations, market research, marketing plans, global trends, buying and selling internationally, and more!

Marketing 4: Developing a Sales Team*

This course explores the secrets to sales. You'll learn expectations, best practices, sales planning, building a clientele that becomes long-term buyers, and how to stay motivated to sell, sell, sell! If sales management is your goal, you'll learn about management styles, how to find, hire, train, motivate, and compensate your team.

Principles of Business, Marketing, Finance 1: Introduction*

Gain fundamental knowledge that will help you pursue a career in business! You will explore the different types of businesses and ownership forms, the impact of governments on business, and the marketing of goods and services. You will also engage with the principles of globalization, free trade, and various economic systems. Finally, the impact of technology on business, business ethics, and social responsibility are discussed, providing you with a foundational knowledge of business.

Principles of Business, Marketing, Finance 2: Targeting Your Business Insight*

Building on the prior prerequisite course, you will expand your knowledge of the basics to explore advanced topics, such as marketing strategy, banking, and investments. Finally, examine employability skills and careers in business, finance, and marketing as well as various entrepreneurship opportunities.

Vocational: Office Productivity

Microsoft Access*
Learn to create, manage, and link databases for essential business operations. Develop your database, design, and planning skills and learn to implement security features to protect and back-up your important data. Put your new skills into practice with a capstone project. Content of this course will be applicable to the Microsoft Office Suite certification exam.

Microsoft Excel*
Discover the real-world uses of Microsoft Excel and its impact upon business, academic, and personal applications. Move from inserting and manipulating data, to working with tables, charts, graphs, and calculations. Content of this course will also be applicable to the Microsoft Office Suite certification exam.

Microsoft Outlook*
Master your email and learn about Outlook's functions to produce professional communications, helping you to succeed in business and in life. Understand effective communication techniques, working with attachments, formatting, replying, and organizing. Be prepared for your day with other features such as calendars, contacts, and tasks. Content of this course will also be applicable to the Microsoft Office Suite certification exam.

Microsoft PowerPoint*
Learn to create clean and professional presentations while also building your skills as a speaker, leader, and marketer! Create and format presentations while inserting multimedia, images, transitions, and animations to make a dynamic final product! Content of this course will also be applicable to the Microsoft Office Suite certification exam.

Microsoft Word*
Learn to use, effectively and efficiently, one of the most common tools of business, school, and personal correspondence – Microsoft Word! You will learn not only how to create word-processing documents like letters and reports, but how to style them using fonts, colors and editing tools. Discover how to format documents, create tables, use bullets and numbering, and insert images. Skills you learn in this course can be applied immediately to school and prepares you to take the MOS Word certification exam. Content of this course will also be applicable to the Microsoft Office Suite certification exam.

Office Administration 1: Introduction*
Businesses worldwide and across every industry are always on the lookout for highly skilled administrative professionals to help their business be successful and thrive. Explore what it means to have effective verbal and written communication, speaking, and listening skills to work with diverse people and teams. Then dive into learning how to leverage various technology and software businesses use to stay connected and productive.

Office Administration 2: Running the Office*

You have learned some of the skills that an administrative professional must possess, but now it's time to take those skills to the next level! You will explore the responsibilities of an administrative professional to understand what a typical workday looks like and even what goes into searching for an administrative professional role: searching, applying, and (the most exciting part!) securing. Do you love the idea of being the glue in a successful business, helping everything run smoothly and properly? Then let's continue your journey into the career of an administrative professional!

Vocational: College and Career Courses

Career Explorations

Career Explorations allows students to investigate the necessary steps to prepare for careers that match their interests, abilities, and aptitudes. Students research various careers, their roles in society, job duties, required education and qualifications, and salary and outlook. They acquire job-seeking skills such as resume writing, interviewing, and portfolio development skills. Students discover workplace dynamics, how to navigate challenging situations, and explore various techniques for advancing in their chosen career field. This course prepares students to manage the financial challenges they will face as they prepare for a career and future employment. Students apply newly acquired knowledge and skills in a real-world experience to further solidify future career plans.

Career Prep 1 & 2

In Career Prep, students are given tools to be successful in future careers. The career clusters and their associated career paths are the focus of the course. Students will learn how to survey the job market, fill out paperwork, and thrive in the workplace. Students will create an electronic portfolio throughout the course. The portfolio includes letters of interest to employers, resumés and cover letters, interview preparation documents, a career plan, as well as other reports. The course is designed for students who are currently working and can leverage real-life experience into their course projects.

Careers In Criminal Justice 1

Have you ever wondered what steps take place as people move through the court system? The criminal justice system is a very complex field that requires dedicated people willing to pursue equal justice for all. Explore different career choices and how the juvenile justice system, the correctional system, and the trial process all work together to maintain social order.

Careers In Criminal Justice 2

Explore some of the various occupations in this field through this course, while simultaneously learning how they interact with each other and other first responders. Discover important aspects of criminal justice careers, such as implementing interviewing techniques, collaborating with other agencies and departments, cooperating with global partners, and communicating with various audiences.

Legal Admin Specialist 1: Introduction*

Do you picture yourself working in a law office or maybe even in a courtroom someday? A rewarding career as a legal administrator means you are responsible for the day-to-day operations in a law firm, and therefore, need to learn the fundamentals of law. You'll need to understand the specifics of researching, creating, processing, filing legal documents, and more. Jumpstart your career in law by learning what it takes to be a legal admin.

Legal Admin Specialist 2: Taking Care of the Legal Office*

Wherever your legal admin career takes you, understanding the responsibilities of a law office requires strict attention to detail, communication skills, office competence, and legal savvy. What does a legal admin need to know and what duties do they perform? How do confidentiality, cybersecurity, and client relations look different in a legal office? Learn the answers to these questions and so much more for this exciting career with endless opportunities to prove your value, learn, and grow.

Workplace and Internship Readiness: Preparing for Work & Life*

Discover how to build a well-rounded set of employability and personal leadership skills that allow you to guide your own career. Learn how to communicate with others, take initiative, set goals, problem-solve, research different career options, and envision your own personal career path. Get ready to create a powerful launching pad that will help you blast off into a great first job experience!

Vocational: Family and Consumer Ed Courses

Child Development

Child Development prepares students to understand the physical, social, emotional, and intellectual growth and development of children. The course is designed to help young people acquire knowledge and skills essential to the care and guidance of children as a parent or caregiver. Emphasis is on helping students create an environment for children that will promote optimum development. Students also investigate careers in child development.

Early Childhood Education

As children, we see the world differently than we do as teenagers and adults. It is a world full of magical creatures and strange, exciting things. But what makes childhood such a wondrous time of learning and exploration? What can caregivers do to encourage this? In Early Childhood Education, you will learn more about understanding the childhood experience. Learn how to create interesting lessons and stimulating learning environments that provide a safe and encouraging experience for children. Discover how to get children excited about learning and, just as importantly, to feel confident about their abilities. Early childhood teachers have the unique opportunity to help build a strong base for their young students' life-long education.

Human Development and Family Studies

Students in the Human Development and Family Studies course explore the basic information about human development, parenting roles and strategies, and functioning effectively within the family in today's changing and complex society. This course helps students to develop competencies related genetics, family types, and effective communication. They investigate the ways in which humans develop over their lifespan, human relationships, childcare, and child abuse. Students also learn the importance of creating a nurturing and caring home environment.

Vocational: Computer Science Courses

Java Programming (AP CS Prep)

The Java Programming course teaches students all Java skills required on the AP Computer Science A exam. While it can be taken as a standalone with no prerequisites, this is one of our most advanced courses, and some degree of technical comfort is recommended.

Python Programming

The Python Programming course teaches core programming concepts using the Python language. This one-semester course requires no software installation and is a great introduction to coding for a wide range of programming languages.

AP Computer Science A (JAVA) 1 & 2*

Students will learn to design and implement computer programs that solve problems relevant to today's society, including art, media, and engineering. AP Computer Science A teaches object-oriented programming using the Java language and is meant to be the equivalent of a first semester, college-level course in computer science. It will emphasize problem solving and algorithm development, and use hands-on experiences and examples so that students can apply programming tools and solve complex problems. Students who enroll in Computer Science Courses need attention to detail, good spelling skills, and patience to discover coding errors. This is not playing or using computer programs. You are creating the programs for other programs to use. No prior computer science knowledge or experience is necessary. (NOTE: The cost of the AP Exam is approx. $94.00 for each student who chooses to take the exam.) NOTE: This course may also be taken as a third credit of Math toward the WHS graduation requirement. This course may be recognized by some colleges toward a third math credit. However, students must confirm, with each specific college of interest, to determine if the course would be accepted toward a third math credit for admission.

AP Principles of Computer Science 1 & 2*

AP Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. With a unique focus on creative problem solving and real-world applications, AP Computer Science Principles prepares students for college and career.

Digital Media 1 : Introduction*

Discover your talent for building digital media applications using text, graphics, animations, sounds, videos, and more! Learn about the elements that make impressive media, such as typography, color theory, design, and manipulation. Explore careers to apply your digital media skills and find your place in this fast-paced and exciting field!

Digital Media 2: Producing for the Web*

Building on the prior prerequisite course, polish your digital media skills and learn all about web design. Incorporate your ideas into websites and dabble in the basics of marketing to

understand how your work is used. Finally, explore the world of podcasts and audio editing to construct a solid foundation from which you can pursue a career!

Digital Media 3: Build a Portfolio Website*

Did you know that you are consuming digital media every time you open an app or use your computer or tablet? Digital media may be a webpage, video, image, podcast, form, or more. Explore how you can develop webpages that embed different media and interactivity for excellent user experience through programming languages such as HTML and CSS. Examine trends and opportunities, education requirements, student organizations, and industry certification options. It's your turn to start designing websites and experiences for digital media consumers.

Digital Media 4: Build an eCommerce Website*

Think of the best online stores you've visited. What do you think makes them unique? How do they keep buyers engaged and purchasing? Before you can design a great eCommerce store, it's essential to understand how one works. Learn the trends, design principles, and security strategies. Explore what it means to adhere to ethical and legal requirements and complying with industry standards and accessibility. It's time to start designing the next best eCommerce site!

Game Design 1: Introduction*

Does your love of video games motivate you to pursue a career in this field? Pursue your passion by learning about the principles of game design through the stages of development, iterative process, critiques, and game development tools. Put these new skills to work by designing your own game!

Game Design 2: Storytelling, Mechanics, and Production*

Building on the prior prerequisite course, use your creativity to develop a game from start to finish! Develop your game creation skills and practice with the tools professionals use to launch your career options in the field of game design. Content of this course also applies to certification exams.

Game Design 3: Build a World*

Are you ready to enter this multi-billion-dollar industry and start applying your technical skills into a compelling package that will catch the eye of an employer? Beginning with the design process and conceptualization, you'll develop your game's story elements, narrative, plot, game characters, and assets. Using game design software, Unity, you will start to create your game, and apply lighting, audio, visual effects, player choice options, AI, and consider the type of controls to use for your game – including VR.

Introduction to Artificial Intelligence

AI is a fast-moving technology with implications for both our individual lives and society as a whole. In this course, students will get a basic introduction to the building blocks and components of artificial intelligence, learning about concepts like algorithms, machine learning,

and neural networks. Students will also explore how AI is already being used, and evaluate concerns about AI, such as bias, impact on jobs as well as exciting new opportunities in future career fields.

Programming 1: Introduction*

Explore the software development life cycle from start to finish while developing your own programming skills with Python. Explore the power of data and algorithms along with their influence upon the world. Launch yourself into the endless possibilities a career as a programmer can bring you!

Programming 2: Problem Solving Through Programming*

Building on the prior prerequisite course, discover how programming can solve a vast array of problems! Plan and develop a problem-solving program while performing testing, debugging, and quality assurance procedures. Design and plan your own app as part of your capstone project to give you a thorough introduction to the world of programming.

Programming 3: Procedural Programming*

Discover the most popular programming languages and what they have to offer the software world. Explore data, algorithms, and objectives and how they are essential to language 'speak'. Learn the software development life cycle and how it can be implemented so you can create projects, such as a prototype for an app you'll code and a working to-do list website.

Programming 4: Creative Programming*

You'll start by developing a simple web page using HTML, CSS, and JavaScript and then you'll practice your Python skills, making your own photo editor and sound player! Using API, you'll practice adding a weather widget to a website and you'll ensure page safety using encryption techniques through Python. You'll test, you'll inspect, you'll collaborate, and for your finale, you'll craft a graphical user interface for an app using Python's Tkinter! Let's get ready to program!

Robotics: Introduction*

Are you fascinated with how machines work? Robots are machines, and they are all around us, from helping doctors in surgeries to helping to keep our homes clean. Explore the physics, mechanics, motion, and the engineering design and construction aspects used to develop robots. Learn how models are created through both sketches and software. Discover STEM careers and the education needed to enter this high-demand field.

Web Development 1: Introduction*

The web is an important part of our daily lives, so it's no surprise that web development is one of the hottest careers. In this course, you'll start to get a real picture of professional web development, including how to create content for the web. You'll learn about topics such as servers, file organization, HTML, CSS, JavaScript, and the development stack that will let you build any website you can dream up!

Web Development 2: Planning and Designing*

Having an aesthetically pleasing, secure, mobile-friendly, and well-functioning website all starts with a plan. Start with learning how to apply the fundamentals of visual design to develop beautiful websites. Engage your users through different embedded media that you've learned how to create and embed. Understand your responsibility to keep you and your users safe through compliance and identifying web vulnerabilities by understanding security principles. Your career in web development starts here: with a plan and design!

Web Development 3: Sketching and Scripting*

You've already experienced web development on a smaller scale, but now, it's time to kick it up a notch! You'll hit the ground running with the Agile methodology of software development and how it plays into leadership and teamwork amongst developers. You'll also approach web development from a different perspective- your users!- and you'll learn to speak the language of JavaScript to enhance your web development efforts. Your efforts will commence in a professional portfolio that will allow you to experience GitHub to display your work. Let's get that framework going!

Vocational: IT Courses

Introduction to Networking 1: Introduction*

What would happen if we didn't have the internet? The internet is one example of a network, so you can only imagine why networking careers are essential. Start exploring the fundamentals of networking, learning about the different parts of a computer and hardware, network operating systems, and understanding how common network devices can be connected. You'll get hands-on to explore different types of cables used to create networks – and even make cables in Wired Networking activities. Get started with your introduction to networking!

Introduction to Networking 2: Network Oversight*

Network administrators are responsible for the oversight of an organization's computer network. This includes installing hardware and software but also relies on considerable technical skills to resolve network issues. Discover how to set up a network, troubleshoot problems, monitor network security, infrastructure, performance, and contribute to creating policies and procedures. As a network admin, you'll help keep businesses safe and running correctly.

Network Security Fundamentals 1: Introduction*

Have you seen news headlines about cyber data breaches or hacks? With so many businesses working hard to ensure that their data and their customers' information stay safe and secure, it's no wonder that careers in cybersecurity are in high demand. Learn what information security is, hackers, viruses, spyware, network systems, identifying potential vulnerabilities, protecting against attacks, and creating a disaster and response plan if breaches do occur. Could you be the security specialist that stops the next cyberattack?

Network Security Fundamentals 2: Forensics and Permissions*

As the world becomes increasingly more interconnected by technology, computer and mobile-based crimes are becoming more prevalent. Explore cyber forensics, encryption, cryptography and cryptology, user and password management to mitigate large data breaches, and other threats, vulnerabilities, and security issues. Discover what it takes to enter this high-demand career field. As a cybersecurity specialist, you'll never get bored with trying to keep individuals and organizations safe!

Operational Cybersecurity: An Introduction*

Even when we use the strongest bricks, Firewalls can be breached and other security measures can be exploited by malicious cyberattackers. In this course, you will assume your role as Chief Information Security Officer (CICO) responsible for a data network's design, maintenance, and end-user training. You will explore essentials of keeping networks safe and secure through the use of cryptology, keys, and certificates before moving into the important practice of risk assessment. In the end, your attention will shift to mitigating and managing identified risks and working with key stakeholders to improve the organization's security posture and disaster response. Are you ready to help businesses protect

personal information and outsmart cyber attackers? Grab your white hat, BYOD, and let's get started!

Principles of Information Technology 1: Introduction*

Develop your understanding of computers and increase your proficiency! Learn about computer hardware, Von Neumann architecture, peripherals, and maintenance as well as data management and storage options. Trace the history of operating systems and application software while also exploring network systems, administration, and troubleshooting. Finally, dive into word processing, spreadsheets, and databases to cement your knowledge of information technology!

Principles of Information Technology 2: Working with Computers*

Building on the prior prerequisite course, you will gain further knowledge of information technology. Starting with an overview of programming, algorithms, and compilers, students will then learn the basics of webpage design and creating graphics. You will also explore security and cybercrime, emerging technologies, presentation software, and intellectual property laws. Finally, you will prepare for the future by discovering various careers in this field and planning your education!

Vocational: Service/Hospitality

Cosmetology 1

This course introduces students to the world of cosmetology! Students will study the growth of the cosmetology industry and learn about exciting career opportunities, while examining skills and characteristics that compose a good cosmetologist. Health and safety procedures, basic human anatomy, and ethical and legal conduct are analyzed along with chemistry as it applies to skin, hair, and nail treatments. This course provides foundational knowledge for those students thinking about a career in cosmetology. Students will learn about creating a thriving cosmetology business. Focusing on foundational business strategies, students will explore potential types of clients, customer service practices, marketing, advertising, and how to build a business from the ground up. By examining the tools, equipment, technology, and safety, students will become familiar with salon practices and the standards of care clients expect.

Cosmetology 2

The vibrant cosmetology industry needs skilled and personable professionals well-versed in the latest trends and technological advances. These trends and advances will be examined through studying various skin disorders, infection control measures, paraffin treatments, nail sculpting, and the basics of manicures and pedicures. Additionally, students will delve into specific nail care techniques by applying and maintaining nail tips, acrylic, gel, and nail wraps. Students will discover the next steps towards launching a rewarding and creative career in cosmetology! Students will begin with learning skin types, different facial products, and how to perform a basic facial, as well as makeup application and hair removal techniques. Finally, students will develop their own portfolio and prepare for licensing.

Cosmetology 3

Cosmetology is a specialized field with a high skill set. Students taking this course will be exposed to the complexities of cosmetology by learning to perform a hair, scalp, and skin analysis. Students will also learn about hair types, face shapes, and color theory. Finally, to effectively prepare students for a career in cosmetology, color techniques with an emphasis on salon and chemical safety is examined.

Cosmetology 4

Building on the prior prerequisite course, students will delve into the realm of hair styling and cutting techniques. Students will explore varieties wigs, extensions, and hairpieces, while also developing knowledge about shampooing and conditioning. Manual curling and the use of chemicals to curl and straighten hair are highlighted in this course as well as safety when working with chemicals. Students can expect to be well versed with a plethora of hair skills upon completion.

Culinary Arts 1: Introduction

Food, glorious food! It both nourishes and satisfies us, and it brings people together through preparation, enjoyment, and celebration. If you've ever wanted to learn more about cuisine and how your creativity and appreciation can be expressed by preparing food, Culinary Arts 1:

Introduction is perfect for you. Learn about the history and development of the food service industry, the basics of nutrition and different dietary needs, and laws and regulations governing food service. You will also develop fundamental culinary arts skills, including how to read and follow recipes, understand weight and measurements used in the food service industry, and how to be safe and sanitary in the kitchen.

Culinary Arts 2: Skills Development

Food is fundamental to life. Not only does it feed our bodies, but it's often the centerpiece for family gatherings and social functions with friends. Enhance your knowledge of the endless varieties of food and explore what it takes to develop real talent as a chef. Through hands-on activities and in-depth study of the culinary arts field, this course will help you hone your cooking skills and give you the opportunity to explore the variety of careers available in the culinary arts industry. You will also learn the skills required to open, market, and manage a successful restaurant as you explore new technologies in food service.

Culinary Arts 3: Baking

Whether you aspire to be a world-class chef or just want to learn the skills needed to create your own dishes, Culinary Arts 2A: Baking, Pastry, and More! will help you build a strong foundation and grow your knowledge of this exciting industry. In this course, you will explore baking and desserts, learn how to prepare proteins, and study nutrition and safety in the kitchen. You will also enhance your understanding of sustainability in the food industry, learn to prepare meals from a global perspective, and dissect the business of cooking, from managing a kitchen to successfully running a catering company. Discover the delights that await you on this delicious culinary adventure!

Fashion Design

Fashion Design is an advanced course for students interested in learning the intricate process of how the fashion system works. Students will study the fashion business in sequential order from concept to consumer. They will examine all of the processes involved in the industry from producing raw materials, apparel, and accessories to the retail stores that sell fashion merchandise to the public. Students learn that the decision-making process is complex and not just about the latest designers, styles, or trends of an era. In this course, students will explore the history of fashion, including the looks and creations at every era. They will discover the equipment, tools, and fabrics used to create fashion, and they will learn how technology is used in fashion. Students have an opportunity to express themselves and their style through the creation of their own fashion design sketches and mood boards. Students will learn fashion terminology and how to forecast new and upcoming fashion trends.

Hospitality And Tourism 1

Think about the best travel location you've ever heard about. Now imagine working there. In the 21st century, travel is more exciting than ever, with people traversing the globe in growing numbers. Hospitality and Tourism 1: Traveling the Globe will introduce you to a thriving industry that caters to the needs of travelers through managing hotels, restaurants, cruise ships, resorts, theme parks, and any other kind of hospitality you can imagine. Operating busy tourist locations, creating marketing around the world of leisure and travel, spotting trends,

and planning tasteful events are just a few of the key aspects you will explore in this course as you locate your own career niche in this exciting field.

Hospitality And Tourism 2

If you love working with people, a future in hospitality may be for you. You will learn about what makes the hotel and restaurant industries unique. Learn about large and small restaurants, boutique and resort hotels, and their day-to-day operations. Evaluate the environment for these businesses by examining their customers and their competition. As well, you will discover trends and technological advances that makes each industry exciting and innovative. You can explore a variety of interesting job options from Front Desk and Concierge services to Maître d and food service.

Hospitality And Tourism 3

Building upon the prior prerequisite course, students will embark on their journey to becoming managers in the hotel and restaurant industry by gaining knowledge and developing a variety of skills. Students will learn of different management styles, laws, and regulations that govern hotels and restaurants as well as how to develop job descriptions and business plans. In addition, students will learn how to create menus, advertise vacancies, perform interviews, and understand financials of the hotel or restaurant.

Vocational: Health Service Courses

Allied Health Assistant 1: Introduction*

Are you passionate about helping people and making a difference in their lives? Explore your options by learning how to properly care for your patients and provide for the administrative needs of healthcare. Learn to prepare exam rooms, schedule, bill and document all while solidifying your professional skills in communication, privacy, safety, and ethics.

Allied Health Assistant 2: Skills and Specialties*

If you're planning on going into the health care field, then this course is for you! Allied health encompasses a broad range of different health care professionals who provide a range of skills in the fields of dentistry, pharmaceutical, medicine, nursing, nutrition, rehabilitation, and more. This course is the second course of the Allied Health concentrator sequence and gives you the needed skills to pursue any of these careers in allied health.

Dental Assistant : Introduction*

Are you a compassionate person who genuinely cares about helping others be healthy? Learn how becoming a Dental Assistant can offer you a rewarding career as well as job security. Start with learning the different roles within a dentist's office, organizations to get involved with, and basic head, neck, and dental anatomy. Learn what it takes to embark on a career sure to provide personal and professional fulfillment.

EKG Technician 1: Introduction*

Our hearts are essential to our survival. And EKG technicians play an important role in administering tests and evaluating data given by the electrocardiogram (EKG) to treat patients effectively. Explore the cardiovascular system and its anatomy, and its role in our body, health, and lives. If you're a people person and want to work in healthcare, build the knowledge and skill base to prepare you for a cardiovascular career.

EKG Technician 2: Analysis and Response*

Does the thought of becoming an EKG Technician still make your heart skip a beat? Continue your journey through the peaks and valleys of EKG waves and really dig into the details of the cardiac code to fulfill your ultimate goal: saving lives! This course will prepare you to interpret different EKG waves, how to spot wave abnormalities, how to differentiate between different disorders, and how to treat those disorders. Let's get ready to continue your adventure into the world of cardiology and a possible career as a EKG Technician!

Emergency Medical Responder 1: Introduction*

Have you ever wondered what happens after making an emergency call? Get a realistic look into the day-to-day, fast-paced life of an EMR and how their roles and responsibilities fit into the larger picture with Emergency Medical Services. Discover how to conduct a patient assessment when you arrive on a scene and assess and treat various medical emergencies. If you've ever dreamt of being on the front lines, providing quality care to save someone's life, then explore the exciting career as an Emergency Medical Responder.

Emergency Medical Responder 2: Prepared for Action*

Being an emergency medical responder is dynamic and challenging. EMRs are first responders who are prepared for action! Explore how to care for diverse patients and in unique and even difficult situations. From advanced trauma to childbirth, from mass casualties to special conditions. EMRs are trained to care for, treat, move, and transport patients in various situations and play a vital role as part of an EMS response team.

Health Science Foundations 1: Introduction*

Introduce yourself to the rewarding field of health science! You will acquire foundational knowledge required to pursue a career, such as roles in the health care industry and the education, training, and credentials needed to attain them. Basic medical terminology, principles of anatomy and physiology, and legal and ethical responsibilities are also discussed. In addition, you will explore communication, teamwork, and leadership techniques – providing a solid basis for advancing through the health sciences.

Health Science Foundations 2: Professional Responsibilities*

Building on the prior prerequisite course, you will further develop your understanding of health science. Starting with safety, you will analyze your responsibilities for ensuring patient and personal safety with special attention paid to emergency procedures. Infection control, first-aid, CPR, and measuring vitals are discussed in detail. You will also learn about numerical data, such as systems of measurement, medical math, and reading and interpreting charts. Finally, examine effective team work and leadership characteristics while building your employment skills

Health Science: Foundations 1*

Introduce your students to the rewarding field of health science! Learners will acquire foundational knowledge required to pursue a career, such as the roles in the health care industry and the education, training, and credentials needed to attain them. Basic medical terminology, principles of anatomy and physiology, and legal and ethical responsibilities are also discussed. In addition, students will explore communication, teamwork, and leadership techniques – providing a solid basis for those wanting to advance through the health sciences.

Health Science: Foundations 2*

Building on the prior prerequisite course, you will further develop your understanding of health science. Starting with safety, you will analyze your responsibilities for ensuring patient and personal safety with special attention paid to emergency procedures. Infection control, first-aid, CPR, and measuring vitals are discussed in detail. You will also learn about numerical data, such as systems of measurement, medical math, and reading and interpreting charts. Finally, examine effective team work and leadership characteristics while building your employment skills.

Health Science: Nursing

Nursing is an in-demand career, perfect for someone looking for a rewarding and challenging vocation in the healthcare sector. With a strong focus on patient care, a nurse must be skilled in communication, promoting wellness, and understanding safety in the workplace. In Health

Science: Nursing, you will explore communication and ethics, anatomy and physiology, and the practice of nursing. Learn how to build relationships with individuals, families, and communities and how to develop wellness strategies for your patients. From emergency to rehabilitative care to advances and challenges in the healthcare industry, discover how you can launch a fulfilling career providing care to others.

Health Science: Patient Care And Medical Services

Are you looking for a job that's challenging, interesting, and rewarding? These three words describe many of the different careers in health care, and Health Science 2: Patient Care and Medical Services will show you how to become part of this meaningful vocation. Promoting wellness, communicating with patients, and understanding safety in the workplace are just a few of the essential skills you will learn, all the while becoming familiar with some of the more prominent areas in the field, such as emergency care, nursing, infection control, and pediatrics. You'll learn about some of the inherent challenges faced by this age-old profession and how you can become a significant part of the solution.

Health Science: Principles 1 & 2

This CTE course is designed to help prepare students for a career in the health science field. It covers healthcare systems and the roles of team members within these institutions. The course has many opportunities for students to explore the various careers within the healthcare field. It emphasizes the personal and professional skills required to succeed in this arena, including personal character qualities, teamwork, and leadership. Coverage includes the science of healthcare, including measurement, SI system, anatomy and physiology, and safety practices. It covers topics of healthcare at various life stages, from birth to death. Laws and regulations, best practices, and professional ethics are discussed, as well. Because this course has a careers emphasis, other topics covered include career preparation, the role of student and professional organizations, and the state of the health-care career field.

Health Science: Public Health

What is public health? Who is in control of our health systems and who decides which diseases get funding and which do not? What are the human and environmental reasons for health inequality? Health Science: Public Health answers all of these questions and more. You will study both infectious and non-communicable diseases as well as learn how we conquer these on a community and global level through various methods, including proper hygiene, sanitation, and nutrition. Explore the role current and future technologies play worldwide as well as consider the ethics and governance of health on a global scale. Discover unique career opportunities, and fascinating real-life situations.

Medical Diagnostic Technology 1: Introduction*

Have you ever wondered how a health professional knows how to diagnose an illness? Or what medications to prescribe to a patient depending on the person's body and their signs and symptoms? Learn about different diagnostic technology used and essential body systems and fluids that need to be understood to make an accurate diagnosis of a disease, condition, or illness. This career field is flourishing, and now is the time to be part of it!

Medical Diagnostic Technology 2: Exploring Systems & Procedures*

Learn about different diagnostic technology, procedures, essential body systems, and fluids that need to be understood to make an accurate diagnosis of a disease, condition, or illness. This career field is flourishing, and now is the time to be part of it!

Medical Terminology 1: Introduction*

Learning the language is essential for careers in health science. Join word parts to form medical terms, associations within body systems, and better communicate with colleagues and patients. Build your proficiency and confidence with this course and prepare yourself for a career in health sciences.

Medical Terminology 2: Discovering Word Foundations*

Adding on the prior prerequisite course, discover the medical terminology associated with even more body systems to increase your ability to master prefixes, suffixes, and roots. Connect this language to real world patients and clinical settings through practical applications and specific scenarios. Launch your health knowledge with detailed medical terms!

Nursing Assistant 1: Introduction*

If you ever wanted a career that is centered around the care of others and that directly impacts the most vulnerable populations, then it's time to explore what it means to be a Nursing Assistant. This role can be the first step on your nursing career ladder or into other healthcare positions. Learn career options, ethical and legal responsibilities, anatomy and physiology, patient care, and safety. Discover what it takes to start your journey into this highly needed field.

Nursing Assistant 2: Patient Care*

As a Nursing Assistant, you are heavily involved in the care of your patients. But what does a typical day look like? How do you care for your patients during your shift? From hospital settings to home health care, from pre- and postoperative to rehabilitation. Discover how best to communicate and work with your team to ensure a safe environment, prevent and control infectious diseases, advocate for your patient's rights, and provide appropriate care - even for the most complex patient needs.

Pharmacology : Introduction*

If you ever thought about pursuing a gratifying career in biomedical sciences, pharmacology is a must. Pharmacology is the fascinating study of the chemistry, origins, and types of medications. Whether you plan on going into medicine, nursing, dentistry, veterinary medicine, or pharmacy, you'll need to learn the effects of medicines on different biological systems, appropriate dosages, and how the body responds to different medications.

Sports Medicine: Introduction*

What do you think of when you hear the phrase "sports medicine professional"? Do you think of a doctor? Or maybe you think of a coach? Believe it or not, the term encompasses a much larger range of career options that expands further than jobs typically associated with this field. Would you believe that massage therapists, dietitians, and facility managers are considered to

be part of the sports medicine industry? Together, we'll take a deep dive into a few of the most popular career paths available in the field today. We will also take a look at and discuss some of the day-to-day duties and legal obligations of a sports medicine professional–ready? Let's jump in!

Vocational: Technology Education

Applied Engineering 1: Introduction*

Discover how technology has changed the world around us by pursuing technological solutions to everyday problems. While using scientific and engineering methods, learn how electricity, electronic systems, magnets, and circuits work. Understand the design process and bring your ideas to life. Explore how engineering advances your ideas and the world!

Applied Engineering 2: Solving Problems Together*

Do you like to invite solutions to solve problems? Applied engineering has advanced areas such as energy, transportation, health and genetics, alternative energy, food packaging, etc. Explore various inventions and solutions that have solved problems across industries. Examine how artificial intelligence and technology are making an impact on breakthroughs. Evaluate the range of robotic and STEM-related career options available for you to make a difference in lives with your contributions and innovations.

Engineering And Technology

In Concepts of Engineering and Technology, you will learn more about engineering and technology careers and what skills and knowledge you'll need to succeed in these fields. You'll explore innovative and cutting-edge projects that are changing the world we live in and examine the design and prototype development process. Concepts of Engineering and Technology will also help you understand the emerging issues in this exciting career field.

Engineering: Introduction

Introduction to Engineering provides students with an overview of the field of engineering and the primary processes and procedures used by engineers. Students explore engineering careers and their impacts on society, and they learn how mathematics and science are used in the field of engineering. They examine different engineering disciplines, the engineering design process, and various engineering styles and methods used in the field. Students take part in hands-on learning as they work through a real-life design problem and solve it through the steps of the engineering design process. The course concludes with a student-created presentation to demonstrate their solution to the design problem.

Manufacturing: Product Design and Innovation

In this course, you'll learn about the types of manufacturing systems and processes used to create the products we buy every day. You'll also be introduced to the various career opportunities in the manufacturing industry including those for engineers, technicians, and supervisors. As a culminating project, you'll plan your own manufacturing process for a new product or invention! If you thought manufacturing was little more than mundane assembly lines, this course will show you just how exciting and fruitful the industry can be.