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# 2022-2023 HIGH SCHOOL COURSE GUIDEBOOK

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eCampus Academy



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WATERTOWN UNIFIED SCHOOL DISTRICT  
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## Table of Contents

English Language Arts Courses	3
Mathematics Courses	10
Science Courses	16
Social Studies Courses	23
General Elective Courses	31
Personal Financial Literacy Courses*	32
Health and Fitness Courses	33
Humanities Courses	35
Vocational: Agricultural	39
Vocational: Business Courses	40
Vocational: Office Productivity	46
Vocational: College and Career Courses	48
Vocational: Family and Consumer Courses	50
Vocational: Computer Science Courses	52
Vocational: IT Courses	57
Vocational: Service/Hospitality	59
Vocational: Health Service Courses	62
Vocational: Technology Education	68



# *English Language Arts*

## English Language Arts Courses

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### 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.

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### American Literature 1 & 2

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.

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### British Literature 1 & 2

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.

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### 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.

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### Creative Writing 1

For many hundreds of years, literature has been one of the most important human art forms. It allows us to give voice to our emotions, create imaginary worlds, express ideas, and escape the confines of material reality. Through creative writing, we can come to understand ourselves and our world a little bit better. This course provides students with a solid grounding in the



## English Language Arts

writing process, from finding inspiration to building a basic story to using complicated literary techniques and creating strange hybrid forms of poetic prose and prose poetry. By the end of this course, students will learn how to discover their creative thoughts and turn those ideas into fully realized pieces of creative writing.

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### Creative Writing 2

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.

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### Creative Writing 3

Creative Writing 1 encourages students to write, reason, and relate to the world creatively. By engaging in a wide variety of exercises, students will learn how to express themselves creatively. Students will be writing creatively and reading in a range of domains including reflection, interpretation, evaluation, synthesis, persuasion, controversial issues, and experimentation. Students will demonstrate skills in these forms: fictional writing, short stories, poetry, and drama.

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### 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.

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### English 09-1 & 09-2

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.

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# *English Language Arts*

## English 10-1 & 10-2

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.

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## English 11-1 & 11-2

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.

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## English 12-1 & 12-2

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.

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## 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.

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## Exploring Cinema

Exploring Cinema introduces students to film-making and cinematic productions. In this course, students explore the technology used to create a film and begin to build an aesthetic appreciation of films. Students also explore media art and the ethics of media creation, giving them a wider perspective on the different ways material can be presented.



# *English Language Arts*

## **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.

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## **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.

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## **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!

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## **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.

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## **Literary Genres 1 & 2**

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 Barak 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.

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# *English Language Arts*

## Media Studies

Media studies will be a course in analyzing forms of media for the purpose of teaching about the tools of manipulation, power of the media, the Internet and related issues, and critical thinking. Media studies will be about empowering students to defend themselves against the power of the media as well as understanding how to utilize the media for the benefit of humanity. Reading, writing, speaking, listening, and viewing competencies are integrated throughout students' learning experiences.

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## 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.

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## Public Speaking 1

In this course, you will learn from famous orators, like Aristotle and Cicero, understand the influence of rhetoric, and discover how to recognize bias, prejudice, and propaganda. You will also learn how to plan a speech, build an argument, and communicate effectively, while collaborating with others. Grab your notes and get ready to conquer public speaking!

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## Public Speaking 2

Building on the prior prerequisite course, bring your speeches to life by learning about body language, vocal, and other techniques. Learn about logic and reason while gaining the confidence to help create and deliver great presentations and speeches. You will also critically examine your speeches and presentations and those of others to improve upon your presentation.

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## 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.

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## Research

The purpose of this course is to enable students to develop fundamental knowledge of the steps in the research process. This multidisciplinary course enables students to develop fundamental knowledge of the steps in the research process. Students gain the ability to choose among research topics as they relate to various fields such as science, history, and literature. The course promotes research skills and students learn to evaluate research claims made in the media, literature and other sources.



# *English Language Arts*

## **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.

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## **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.

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## **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.

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## **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.

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## **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.

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# *English Language Arts*

## **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.

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# Mathematics

## Mathematics Courses

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### Advanced Algebra 1 & 2

Passing Advanced Algebra satisfies minimum college admission requirements. Students will take an in-depth look at linear equations, inequalities, and functions. They 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. They 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 probability and data analysis, students will determine probability and model data.

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### Algebra 1 & 2

Algebra 1 is a common starting point for high school math studies. Students' math competence will grow as they learn to solve expressions, functions, and equations by using formulas, ratios, proportions, percentages, and rates. Other concepts include exponents and scientific notation, polynomials and trinomials, multi-step inequalities, slope formulas, and systems of equations and inequalities. Students will solve quadratic functions through various methods including graphing, factoring, square roots, completing the square, and the quadratic equation. Using tables and graphs, students will analyze and organize data and statistics. Students will learn to work and solve exponential, radical, and rational functions and equations.

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### 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.

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### AP Calculus AB 1 & 2

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. \$94.00 for each student who chooses to take the exam.)

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# Mathematics

## AP Calculus BC 1 & 2

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. \$94.00 for each student who chooses to take the exam.)

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## AP Statistics 1 & 2

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 \$94.00 for each student who chooses to take the exam.)

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## Applied Mathematics 1 & 2

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.

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## Applied Spatial 1 & 2

This course, is similar to Geometry, but does not cover trigonometry or proofs, and does not go into the depth that Geometry does.

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# Mathematics

## Blended Mathematics 1 & 2 & 3

Blended Mathematics is a self-paced, personalized mathematics course that provides opportunities for a variety of learners to earn math credits in traditional categories (Algebra, Geometry, etc.), but at a pace that makes sense for the learners. The course will allow students of multiple ages to work on coursework ranging from their current level of competency through pre-calculus while receiving real-time feedback in the form of knowledge checks at regular intervals in an attempt to maximize mathematical advancement to allow the highest level of math acquisition before graduation. Opportunities will be provided for students to pursue as many credits for which they can demonstrate mastery. Students below the level of Algebra have the opportunity to earn a full math credit required for high school graduation upon completion of 3 consecutive trimesters in Blended Math AND a demonstrated advancement in excess of one full grade level. All students will learn to increase their personal responsibility and ownership in their learning and to apply math knowledge in various ways. This course is intended for all learner types to build confidence and receive instruction at the level they are at and to move them to the maximum level they can achieve in their mathematical journey. In addition to working through the defined curriculum “coursework” and earning credits in Algebra, Geometry, etc. students would also:

- \*Be engaged in daily warm-ups and challenges
- \*Communicate mathematically
- \*Learn to build personal responsibility through weekly reflections
- \*Apply concepts learned to tackle challenging puzzles, real world problems, or simply fun problems
- \*Work collaboratively on group activities and projects by using math to model the world around them
- \*Engage in math discussions using the appropriate vocabulary and explanations to demonstrate a deeper level understanding of math.

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## Business Mathematics 1 & 2

In Business Mathematics, students discover a variety of basic mathematical concepts and tools for real-world 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.

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## Calculus 1 & 2

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.

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# Mathematics

## Consumer Mathematics 1 & 2

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.

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## Geometry 1 & 2

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 ( $\pi$ ) 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.

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## Honors Advanced Algebra 1 & 2

Honors Advanced Algebra moves at a faster pace than, and in greater depth than Advanced Algebra. Passing Advanced Algebra satisfies minimum college admission requirements. Students will take an in-depth look at linear equations, inequalities, and functions. They 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. They 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 probability and data analysis, students will determine probability and model data.

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## Honors Geometry 1 & 2

Honors Geometry moves at a faster pace than, and in greater depth than 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 ( $\pi$ ) 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



# Mathematics

apply learned geometric skills in working with ratios, similarities, transformations, and symmetry before concluding the course with an inquiry into the fundamentals of trigonometry.

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## Honors Pre-Calculus 1 & 2

Honors Pre-Calculus moves at a faster pace than, and in greater depth than 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.

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## Intermediate Algebra 1 & 2

Intermediate Algebra is a less rigorous option for college bound students who still wish to be prepared for post-secondary learning. Students will take an in-depth look at linear equations, inequalities, and functions. They will be introduced to matrices, learn to use graphs, factoring, and the quadratic formula, and solve quadratic equations, inequalities, and functions. They 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 probability and data analysis, students will determine probability and model data.

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## Math Models 1 & 2

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.

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# Mathematics

## Pre-Algebra 1 & 2

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.

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## Pre-Calculus 1 & 2

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.

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## 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.

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## 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.

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# Science

## Science Courses

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### 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.

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### 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.

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### 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.

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### 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.

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### Archaeology

This course focuses on this techniques, methods, and theories that guide the study of the past. Students will learn how archaeological research is conducted and interpreted, as well as how artefacts are located and preserved. Finally, students will learn about the relationship of material items to culture and what we can learn about past societies from these items.

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## Science

### Astronomy 1

Follow your enthusiasm for space by introducing yourself to the study of astronomy. This course will include topics such as astronomy's history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and the methods used by astronomers to learn more about the universe. Further knowledge is gained through the study of galaxies, stars, and the origin of the universe.

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### Astronomy 2

Dive deeper into the universe and develop a lifelong passion for space exploration and investigation. Become familiar with the inner and outer planets of the solar system as well as the sun, comets, asteroids, and meteors. Additional topics include space travel and settlements as well as the formation of planets.

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### Biology 1 & 2

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.

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### Biotechnology 1

How is technology changing the way we live? Is it possible nature can provide all the answers to some of science's most pressing concerns? The fusion of biology and technology creates an amazing process and offers humanity a chance to significantly improve our existence through the enhancement of food and medicine. In Biotechnology: Unlocking Nature's Secrets, you'll learn how this field seeks to cure such deadly diseases as cancer and malaria, develop innovative medicine, and effectively feed the world through improved systems. Learn about the history of biotechnology and some of the challenges it faces today, such as resistant bacteria and genetically modified organisms in food. You will research new biotechnologies and understand firsthand how they are forever changing the world we live.

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### Biotechnology 2

Building on the prior prerequisite course, expand your knowledge in the field of biotechnology. Explore the discovery of antibiotics and the concerns of antibiotic resistance while also examining the agricultural, pharmaceutical, and genetic applications of biotechnology. Finally, learn about the future of biotechnology to understand the depth and breadth of this field.

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## Science

### Chemistry 1 & 2

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.

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### Earth Science 1 & 2

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.

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### Ecology

Ecology is the study of how organisms interact with each other and their environment at the population, community, and ecosystem levels. The goal of this course is familiarize you with ecological theory and its applications.

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### Environmental Science 1 & 2

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.

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### Forensic Science 1

Fingerprints. Blood spatters. Gunshot residue. If these things intrigue you rather than scare you, Forensic Science 1: Secrets of the Dead may be for you. This course offers you the chance to dive into the riveting job of crime scene analysis. Learn the techniques and practices applied during a crime scene investigation and how clues and data are recorded and preserved. You will better understand how forensic science applies technology to make discoveries and bring criminals to justice as you follow the entire forensic process—from pursuing the evidence trail



## Science

to taking the findings to trial. By careful examination of the crime scene elements, even the most heinous crimes can be solved.

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### Forensic Science 2

Every time a crime is committed, a virtual trail of incriminating evidence is left behind just waiting to be found and analyzed. In Forensic Science B: More Secrets of the Dead, you'll learn even more about the powerful science of forensics and how it has changed the face of crime and justice in our world. You will learn some basic scientific principles used in the lab, such as toxicology, material analysis, microscopy, and forensic anthropology and find out how scientists use everything from insects to bones to help them solve crimes. Discover how advanced techniques and methodical processes can lead to catching even the craftiest criminal. The best way to battle crime these days is not with a weapon, but with science.

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### 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.

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### Honors Biology 1 & 2

Honors Biology moves at a faster pace than, and in greater depth than In Biology. 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.

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### Honors Chemistry 1 & 2

Honors Chemistry moves at a faster pace than, and in greater depth than In 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



## Science

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.

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### Honors Physics 1 & 2

Honors Physics moves at a faster pace than, and in greater depth than In 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.

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### Integrated Chemistry

Students have a brief introduction to the scientific method, lab safety, and the metric system. The study of chemistry begins with the atomic theory and the Periodic Table, applying theory to develop chemical formulas and balance equations. The course includes investigations into acids and bases, gas laws, and nuclear chemistry. Throughout the course, there are lab investigations, including video labs, to reinforce science concepts and skills.

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### Integrated Physics

Students explore Newton's laws of motion and other physics concepts including mass, force, motion, velocity, acceleration, gravity, and energy. A study of electricity and magnetism, simple machines, the laws of thermodynamics, and energy waves rounds out the physics portion of the course. Throughout the course, there are lab investigations, including video labs, to reinforce science concepts and skills.

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### Marine Science 1 & 2

Since the beginning of time, humans have relied on the ocean. But as our planet continues to change over time, human activity has impacted the environment. In the marine science course, students will explore the watery depths of our own planet and understand just how vital the ocean is to our existence. Throughout the course, students will meet marine animals and see how they interact with each other and their environment. They will tour the evolving sea floor and see trenches, volcanoes, and ridges, just to name a few. Along the way, students will hang ten as they discover waves, currents, tides, and other physical interactions between the ocean



## Science

and the land. Finally, students will study the impacts of chemical processes on our blue planet and how they affect the water, the atmosphere, and even our climate. With a focus on conservation, this course will show students that the ocean connects us all, across distance and even time.

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### Medical Microbiology 1 & 2

Medical Microbiology explores the world of tiny (micro) organisms that are responsible for making people sick. Students learn about the common bacteria, viruses, and protists that cause sickness and disease in humans. Medical Microbiology delves into different ways these germs and diseases can spread from person to person, throughout a community, and eventually around the globe while discussing the best practices for stopping them from spreading. Students look into different medications and how they work to kill or slow the growth of different microorganisms. Students will also research why some antibiotic medications are no longer effective against the bacteria that cause disease. Medical microbiology also teaches laboratory skills in how to effectively grow and isolate different colonies of microorganisms in petri dishes.

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### Physics 1 & 2

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.

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### Renewable Technologies

Cars that run on used vegetable oil. Electricity produced from your garbage. A windmill made from spare bicycle parts that pumps water to crops. Energy is life. So, how do we address the world's growing concerns about energy sources? Where will it come from in the future? How can energy be something sustainable, renewable, and accessible? Renewable Technologies begins to uncover the development of new energy technologies and explores how recent approaches to generating, storing, and creating this precious resource have evolved. By gaining a larger understanding of this challenge, we, as thoughtful people, can implement real change and unlock the solution needed for a safer, cleaner, and more enduring world.

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## Science

### 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.

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### 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!

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## *Social Studies*

### Social Studies Courses

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#### 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.

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#### 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.

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#### Anthropology 1

What makes us human? Is it our ability to use language? Is it our abstract thinking skills or our use of tools and technology? In Anthropology 1: Uncovering Human Mysteries you will trace the history of homo sapiens and explore our evolutionary trail. This course offers an anthropologic lens to observe our movement from cave dweller to modern human. It sheds light on how we forged our way and developed all of the things that make us human, such as our cultures, languages, and religions. We, as humans in the 21st century, are highly intelligent, innovative people with astounding technological ability—how did we get this way?

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#### Anthropology 2

How does your culture influence you? Find out how different locations shape various cultures and, in turn, how these cultures shape people's lives around the world—from the jungles of the Amazon to the islands of Indonesia. Anthropology 2: More Human Mysteries Uncovered provides a fascinating look at this puzzle of culture. Many of our ancient cultures and languages were shaped by the geographical locations of our ancestors, and in this course, you will begin to visualize new ideas about how ancient cultures flourished through examining their views on life, death, art, and survival. In looking back and learning about cultures through the ages, we are better equipped to understand the world around us today.

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#### 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.

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## *Social Studies*

### 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.

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### Criminology

In today's society, crime and deviant behavior are often one of the top concerns of society members. From the nightly news to personal experiences with victimization, crime seems to be all around us. In this course, we will explore the field of criminology or the study of crime. In doing so, we will look at possible explanations for crime from psychological, biological, and sociological standpoints, explore the various types of crime and their consequences for society, and investigate how crime and criminals are handled by the criminal justice system. Why do some individuals commit crimes but others don't? What aspects in our culture and society promote crime and deviance? Why do individuals receive different punishments for the same crime? What factors shape the criminal case process, from arrest to punishments?

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### Economics 1 & 2

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.

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### Ethics

The purpose of this course is to help students develop the ability to make reasoned and ethical choices when confronted with the many complex, controversial moral dilemmas faced in today's society. Students will become acquainted with the foundations of ethical thought and theories as well as gain an insight into the process of moral development. Students will also identify typical fallacies in flawed moral arguments. Students will also be given the opportunity, both orally and in writing, to apply the skills they acquire to real life moral dilemmas.

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# *Social Studies*

## Government 1 & 2

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.

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## 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.”

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## 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.

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## 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.

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## *Social Studies*

### **Law And Order**

Laws are essential to preserving our way of life and must be established and upheld in everyone's best interest. In Law and Order: Introduction to Legal Studies, you'll delve deeper into the importance of laws and consider how their application affects us as individuals and communities. Through understanding the court system and how laws are actually enacted, you will learn to appreciate the larger legal process and how it safeguards us all.

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### **Media Literacy**

In this course you will learn how to evaluation information sources and become an informed consumer of information.

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### **Mythology And Folklore**

Mythology and Folklore: Legendary Tales will illustrate how these famous anecdotes have helped humans make sense of the world. Beginning with an overview of mythology and different types of folklore, you will journey with age-old heroes as they slay dragons, outwit gods, defy fate, fight endless battles, and outwit clever monsters with strength and courage. You'll explore the universality and social significance of myths and folklore and see how these powerful tales continue to shape society even today.

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### **Peer Counseling**

Helping people achieve their goals is one of the most rewarding of human experiences. This course explains the role of a peer counselor and teaches observation, listening, and emphatic communication skills that counselors need, while also providing basic training in conflict resolution and group leadership. Not only will this course prepare students for working as a peer counselor, but the skills taught will enhance their abilities to communicate effectively in personal and work relationships.

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### **Personal Psychology 1**

Have you ever wondered why you do the things you do? Have you asked yourself if self-knowledge is the key to self-improvement? Are you interested in how behavior changes as we age? Psychology can give you the answers! In Personal Psychology I: The Road to Self-Discovery, you will trace the development of personality and behavior from infancy through adulthood. You will come to learn more about perception and consciousness and better understand the role of sensation. Are you ready to explore the world of human behavior? Come explore all that psychology can offer to help you to truly understand the human experience.

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## *Social Studies*

### Personal Psychology 2

Why do you sometimes remember song lyrics but can't remember where you left your phone, your keys, or even your shoes? How does language affect the way we think? Why is your personality so different from (or so similar) your brother's or sister's personality? Personal Psychology II: Living in a Complex World will take you to explore what makes you 'you'. Why do some things motivate you more than others? How can you determine your IQ? If you've ever wanted to dive right into the depths of who you are and how you got to be you, jump on board and start your exploration now!

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### Philosophy

Go on an exciting adventure covering over 2,500 years of history! Along the way, you'll run into some very strange characters, like the dirty barefoot man who hung out on street corners pestering everyone with questions, or that eccentric fellow who climbed inside a stove to think about whether he existed. Despite their odd behavior, these and other philosophers of the Western world are among the world's most brilliant and influential thinkers and originated the fundamental ideas of Western civilization. Philosophy: The Big Picture asks some of the same questions these great thinkers pondered, so by the time you've "closed the book" on this course, you will better understand yourself and the world around you—from atoms to outer space and everything in between.

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### 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.

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### 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.

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## *Social Studies*

### **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!

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### **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.

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### **Sociology 1**

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.

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### **Sociology 2**

Why do people disagree on so many big issues? Where do culture wars come from? Maybe you've wondered this as you've looked through your social media feed or read the latest online article about groups fighting over different social issues. Sociology 2: Your Social Life takes a powerful look at how social institutions like families, religion, government, and education shape our world and how collective behavior and social movements can create change. Although the reality of the battles isn't always pretty, gaining a clearer picture of the different sides can help you better understand how our lives are shaped by entertainment, social institutions, and social change.

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### **Sports And Society 2**

Sports and Society 2 is a 1/2 credit social studies elective that is paired with S&S 1 Health and Fitness elective. This S&S 2 is taught by Duke University Cultural Anthropologist, Orin Starn and is a consistently high rated and popular Coursera Course.

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## *Social Studies*

### **US History Colonies to Civil War 1 & 2**

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.

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### **US History Reconstruction to WWII 1 & 2**

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.

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### **US History Post WWII to Present 1 & 2**

Students conclude their exploration of American history in this last history installment. Students examine the difficulties the United States faced as it became an international military and economic power. They also analyze the Cold War, how the nation redefined itself in the 1950s, the turmoil of the 1960s era, as well as multiple wars on terror. Students also review significant presidents who implemented monumental policies and changes. This course brings students to present time and covers some major contemporary events.

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### **World Cultures 1 & 2**

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.

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## *Social Studies*

### **World Geography 1 & 2**

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.

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### **World History 1 & 2**

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.

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### **World Religions**

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 Electives*

## General Elective Courses

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### [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.

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### [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.

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### [Logic 1 & 2](#)

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.

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### [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 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*

## Personal Financial Literacy Courses\*

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### 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.

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### Personal and Family Finance

How do our personal financial habits affect our financial future? How can we make smart decisions with our money in the areas of saving, spending, and investing? This course introduces students to basic financial habits such as setting financial goals, budgeting, and creating financial plans. Students will learn more about topics such as taxation, financial institutions, credit, and money management. The course also addresses how occupations and educational choices can influence personal financial planning, and how individuals can protect themselves from identity theft.

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### Personal Finance

The purpose of this course is to provide students with the essential understandings about managing their money. The focus will be on sources of personal income, saving, and spending patterns. Students will learn such things as how to budget, how to make large purchases, how to invest, and how to minimize taxes.

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\* Students may take only one of these courses for credit, but each will satisfy the Financial Literacy Graduation Requirement.





# *Health and Fitness*

## Health and Fitness Courses

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### 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.

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### 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.

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### Health: Nutrition and Wellness

Have you ever heard the phrase “your body is your temple” and wondered what it means? Keeping our physical body healthy and happy is just one of the many challenges we face, and yet, many of us don't know how to best achieve it. Positive decisions around diet and food preparation are key to this process, and you will find the essential skills needed to pursue a healthy, informed lifestyle in Nutrition and Wellness. Making sure you know how to locate, buy, and prepare fresh delicious food will make you, and your body, feel amazing. Impressing your friends and family as you nourish them with your knowledge? That feels even better!

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### Personal Fitness

What does being fit really mean? Is it just based on physical appearance or is it something deeper? Though we strive to be healthy and make sensible choices, it's difficult to know how to achieve this. It's not only about losing weight or lifting a heavy barbell; in Personal Fitness you will learn about body functions, safety, diet, goals, and strategies for longevity. Human beings, in both body and mind, are complex and highly sensitive organisms that need the right attention to physically excel and feel great. Being fit is about living life to the fullest and making the most of what you have—yourself! Explore the world of healthy living and see how real fitness can be achieved through intention, effort, and just the right amount of knowledge.

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## *Health and Fitness*

### **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.

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### **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.

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### **Sports And Society 1**

Students competing in an organized sport can earn up to 1/2 credit in Physical Fitness for completing their season in good standing. All varsity level sports at WHS qualify, but students may petition for other club or competitive training opportunities. Students must also complete Sports and Society 2 in order for this to qualify for credit.

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# Humanities

## Humanities Courses

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### 3D Modeling

Are you interested in a career in technology? Are you curious about working in fields like virtual reality, video game design, marketing, television and motion pictures, or digital imaging? If so, this course in 3D Modeling is a great place to start as it is the foundation for all these career paths. Gain a deeper understanding of graphic design and illustration as you use 3D animation software to create virtual three-dimensional design projects. Hone in on your drawing, photography, and 3D construction techniques and develop the skills needed to navigate within a 3D digital modeling workspace. This course is an excellent introduction to careers in the fast-growing field of technology and design.

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### American Sign Language 1: Introduction

American Sign Language 1 will introduce you to vocabulary and simple sentences, so that you can start communicating right away. Importantly, you will explore Deaf culture – social beliefs, traditions, history, values and communities influenced by deafness.

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### 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.

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### 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.

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### 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.

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### Animation 1: Introduction

In this course you will 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!

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# Humanities

## Animation 2: Animating Your Creativity

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.

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## Art Appreciation 1 & 2

In Art Appreciation, students explore visual art from the ancient world to the present day. Students investigate various topics such as the mysteries surrounding Stonehenge, the lives of famous Renaissance artists, the way celebrities influenced the Pop Art movement, and the reasons why public memorials are created. This course highlights the important connections between visual art, culture, and human history and allows students to analyze and interpret artworks. Art history comes alive as students emulate basic techniques used by well-known artists.

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## Art History 1 & 2

Students will develop knowledge of the history and theory of art through studying Prehistoric to Early 19th Century art work. Students will research and critique periods, styles, and works of art. Emphasis will be placed on the role of works of art based on subject matter, theme, concept, symbolism, or allegory/metaphor.

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## 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.

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## 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.

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## Digital Photography 1

Gain a better understanding of photography by exploring camera functions and the elements of composition while putting theory into practice by taking your own spectacular shots! Learn how to display your work for exhibitions and develop skills important for a career as a photographer.

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## Humanities

### Digital Photography 2

Building on the prior prerequisite course, further develop your photography skills by learning more professional tips, tricks, and techniques to elevate your images. Explore various photographic styles, themes, genres, and artistic approaches. Learn more about photojournalism and how to bring your photos to life. Using this knowledge, build a portfolio of your work to pursue a career in this field!

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### Digital Photography 3

Digital Photography 3: Discovering Your Creative Potential, you will examine various aspects of the field including specialty areas, ethics, and famous photographers throughout history. You will also learn how to effectively critique photographs so you can better understand composition and go on to create more eye-catching photographs on your own.

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### Music Appreciation 1

Music Appreciation 1: this class covers elements of music and music appreciation from the Medieval Era to the Romantic Era. It will also teach you the essentials of how to listen and really hear (with a knowledgeable ear) the different music that's all around you. Learning how to truly appreciate sound and melody is the best way to ensure a continued love of this delightful art form.

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### Music Appreciation 2

Music Appreciation 2: this class will cover music from the Romantic Era to Contemporary music. It will also teach you the essentials of how to listen and really hear (with a knowledgeable ear) the different music that's all around you. Learning how to truly appreciate sound and melody is the best way to ensure a continued love of this delightful art form.

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### 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!

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### 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.

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## *Humanities*

### **Theatre**

Theatre invites students to continue to explore the history of theatre and the basic elements of stage production. The course highlights the technology used to create early and modern stage productions and the basic fundamentals of acting. Theatre provides students with a look at production elements such as stage lighting, sound, costume, and makeup. Students learn to apply voice and gesture skills in pantomimed and improvised scenarios, and they receive an overview of the responsibilities of the producer, director, and technical crew of a theatre production. Students develop insight to the motivations of a playwright in the development of a story, and they explore the careers and works of famous playwrights. Theatre provides a balanced educational experience for all students so that they can gain the inquiry and critical skills involved in clarifying theatrical perceptions and knowledge.

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# *Vocational Education: Agriculture*

## Vocational: Agricultural

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### Agriscience 1

In this course, students will learn more about the development and maintenance of agriculture, animal systems, natural resources, and other food sources. Students will also examine the relationship between agriculture and natural resources and the environment, health, politics, and world trade.

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### Agriscience 2

Science and technology are revolutionizing many areas of our lives, and agriculture is no exception! From aquaculture to genetic engineering, agriscience is finding new ways to better produce and manage plants, animals, and other natural resources. In Agriscience 2, you'll build on your existing knowledge of plant and animal science and delve deeper into important areas such as soil science and weed management. You'll also explore research on plant and animal diseases as well as the insects and other pests that can impact agricultural enterprises and natural resources.

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### Forestry And Natural Resources

Whether you are a treehugger or not, everyone loves the beauty and serenity of a healthy forest. 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. After better understanding these variables and how they affect the majesty of our forests, you may just be hugging these gentle giants after all.

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### 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!

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# *Vocational Education: Business*

## Vocational: Business Courses

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### Advertising

Throughout the Advertising course, students discover the various ways that advertisements touches 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.

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### Advertising And Sales Promotion

How many different advertisements do you think the average person views on a daily basis? Ads are in magazines, on the radio and television, and even sent to us via email and text message. Living in modern-day society, it's difficult to ignore the fact that ads are everywhere. In fact, advertisements have become so common that sometimes we tend to tune them out altogether. Because of this tendency, advertisers have to be more creative today than ever before, building bold ad campaigns that are impossible to ignore. In this course, you'll be exploring the ins and outs of the advertising industry, including its history, the role it plays in our society, and the ethical and legal issues related to advertising.

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### 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.

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# *Vocational Education: Business*

## **Business Communications**

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.

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### **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.

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### **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.

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### **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.

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### **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.

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# *Vocational Education: Business*

## **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.

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## **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.

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## **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.

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## **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.

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## **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.

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# *Vocational Education: Business*

## **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.

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## **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.

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### **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!

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### **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!

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### **Entrepreneurship: Starting Your Own Business**

Do you dream of owning your own business? This course can give you a head start in learning about what you'll need to own and operate a successful business. Students will explore creating a business plan, financing a business, and pricing products and services.

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# *Vocational Education: Business*

## **Essentials Of Business**

This course is an introduction to the goals, processes, and operations of business enterprises for students. The main focus is on the functions that a company—whether a multinational corporation or a corner grocery store—must manage effectively in order to be successful. These include accounting, finance, human resource management, marketing, operations management, and strategic planning. Attention is also given to the legal environment in which businesses operate, and the importance of business ethics and corporate citizenship.

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## **International Business**

Imagine meeting with suppliers at an office in Europe while calling your salesroom that's back in Asia. Imagine investing in foreign markets and visiting partners in exotic locales. With the evolution of current technology, our world is more connected than ever before, and the business community today is larger than ever. International Business: Global Commerce in the 21st Century will demonstrate just how you can gain the knowledge, skills, and appreciation to live and work in the global marketplace. You will begin to understand how both domestic and international businesses are affected by economic, social, cultural, political, and legal factors and what it takes to become a true manager of a global business in the 21st century.

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## **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.

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## **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.

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## **Marketing**

This class is an introduction to marketing principles.

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# *Vocational Education: Business*

## **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.

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## **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!

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## **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!

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## **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.

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## **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.

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## **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.

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# *Vocational Education: Office Productivity*

## Vocational: Office Productivity

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### 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.

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### 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.

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### 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.

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### 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.

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### 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.

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# *Vocational Education: Office Productivity*

## **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.

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## **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!

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## *Vocational Education: College and Career*

### Vocational: College and Career Courses

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#### 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.

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#### 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.

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#### 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.

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#### 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.

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## *Vocational Education: College and Career*

### **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.

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### **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.

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### **Military Careers**

Most of us have seen a war movie; maybe it had a hotshot aviator or a renegade private or a daring Special Forces operative. But outside of these sensationalized portrayals, do you really understand how the military works or what it can do for you? The military offers far more career diversity than most people imagine, and Introduction to Military Careers will provide the information you need to gain a broader understanding of how to find the right fit. You will learn about the five military branches – Air Force, Army, Coast Guard, Marines Corps, and Navy – and examine which jobs you might like to pursue. From aviation, to medicine, to law enforcement, the military can be an outstanding place to achieve your dreams in a supportive and well-structured environment.

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### **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!

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# *Vocational Education: Family and Consumer*

## Vocational: Family and Consumer Courses

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### 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.

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### 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.

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### 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.

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### Life Skills 1

What do you want out of life? How do you achieve your dreams for the future? These can be difficult questions to answer, but with the right tools, they don't have to be. This course will encourage you to learn more about yourself and help you to prepare for the future. You will explore goal setting, decision making, and surviving college and career. You will also discover how to become a valuable contributing member of society. Now is the time to take action. It's your life, make it count!

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## *Vocational Education: Family and Consumer*

### **Life Skills 2**

Life Skills provides students with important information that will help them to lead independent and successful lives as adults. In this course, students focus on topics including personal finance, nutrition, and personal development. The useful skills students gain in this course will help them to become responsible and proactive young adults.

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### **Real World Parenting**

Do you love children? Maybe you dream of being a parent someday. But perhaps you are also asking yourself, just how, exactly, do you learn to parent? Learning how to care for children while teaching them confidence and accountability is not an easy feat. In Real World Parenting, you'll learn that being a parent is much more than simply feeding, bathing, and protecting a child. Creating a positive environment, nurturing, fostering education, and serving as a role model are all critical aspects as well. You'll learn how to be a positive force in the development of your future children as well as others around you.

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# *Vocational Education: Computer Science*

## Vocational: Computer Science Courses

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### Advanced Computer Science Programming (Python)

This course continues the concepts and content covered in the Introduction to Computer Science course. It expands on the foundation of computer science using the Python Language. This course prepares students for AP Computer Science A course. 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. 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.

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### 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.

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### 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.

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# *Vocational Education: Computer Science*

## **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!

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## **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!

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## **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.

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## **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!

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## **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!

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## *Vocational Education: Computer Science*

### **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.

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### **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.

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### **Introduction to Computer Science Programming (Python)**

An interactive introductory course for students new to programming that teaches the foundations of computer science using the Python language. Students will learn how to think computationally and solve complex problems, skills that are important for every student. The course will consist of video lessons, daily programming exercises, coding assignments, quizzes, projects, and exams. Students will also participate in online discussion forums. 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: 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.

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### **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!

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### **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.

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## *Vocational Education: Computer Science*

### **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.

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### **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!

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### **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.

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### **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!

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### **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!

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## *Vocational Education: Computer Science*

### **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!

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# *Vocational Education: Information Technology*

## Vocational: IT Courses

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### Applied School Technology Leadership

As technology in the WUSD expands, the need for skilled support for technology and teaching in the Digital Age continues to grow. This course applies a unique curriculum in preparing students to become Student Technology Leaders (STLs) by working with WUSD educators, peers, and IT staff to integrate technology in ways that improve the school experience for all. You will participate in real-world opportunities that develop the technological and people skills necessary to assist with technology challenges in the classroom and beyond. You will also learn to create content, mentor others, and develop professional working relationships with school staff. The course features a blended-learning curriculum with 17 units of study driven by a "learning by doing" philosophy of think, learn, and do. The leadership skills, along with the career and technical education gained will give you a unique advantage in the global marketplace. This is a blended course mixing online and face-to-face learning

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### 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!

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### 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.

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### 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?

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## *Vocational Education: Information Technology*

### **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!

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### **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!

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### **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!

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# *Vocational Education: Service and Hospitality*

## Vocational: Service/Hospitality

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### 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.

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### 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.

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### 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.

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### 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.

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## *Vocational Education: Service and Hospitality*

### **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.

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### **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.

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### **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!

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### **Fashion And Interior Design**

Do you have a flair for fashion? Are you constantly looking for new ways to decorate or design your room? If so, Fashion and Interior Design is the course for you. Explore the world of design and begin to understand the background and knowledge needed to develop a career in this exciting field. Try your hand at designing through a project-based process, learning how color, composition, and texture can all affect great aesthetics. You'll develop the essential communications skills necessary to build a successful business and begin to develop the kind of portfolio that will lead to future career opportunities. Perhaps it's time to get your stylish foot in the door?

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## *Vocational Education: Service and Hospitality*

### **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.

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### **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.

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### **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.

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### **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.

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# Vocational Education: Health Services

## Vocational: Health Service Courses

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### 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 room, schedule, bill and document all while solidifying your professional skills in communication, privacy, safety, and ethics.

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### 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.

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### 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.

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### 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.

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### 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!

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## *Vocational Education: Health Services*

### **Emergency Medical Responder 1: Introduction\***

Have you ever wondered what happens after making a 911 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.

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### **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.

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### **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.

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### **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

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### **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.

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# *Vocational Education: Health Services*

## **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.

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## **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.

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## **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.

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## **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.

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# *Vocational Education: Health Services*

## **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.

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## **Health Science: The Whole Individual**

We know the world is filled with different health problems and finding effective solutions is one of our greatest challenges. How close are we to finding a cure for cancer? What's the best way to treat diabetes and asthma? How are such illnesses as meningitis and tuberculosis identified and diagnosed? Health Science 1: The Whole Individual provides the answers to these questions and more as it introduces you to such health science disciplines as toxicology, clinical medicine, and biotechnology. Understanding the value of diagnostics and research can lead to better identification and treatment of many diseases, and by learning all the pertinent information and terminology you can discover how this amazing field will contribute to the betterment human life in our future.

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## **Human And Social Services**

Those working in the field of social services are dedicated to strengthening the economic and social well-being of others and helping them lead safe and independent lives. In Human and Social Services 1, you will explore the process of helping, body, mind, and family wellness, and how you can become a caring social service professional. If you are interested in an emotionally fulfilling and rewarding career and making a difference in the lives of others, social and human services may be the right field for you.

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## **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!

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## **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!

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# *Vocational Education: Health Services*

## **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.

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## **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!

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## **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.

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## **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.

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## **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.

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## *Vocational Education: Health Services*

### **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!

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# *Vocational Education: Technology Education*

## Vocational: Technology Education

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### 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!

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### 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.

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### 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.

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### Engineering: Introduction

Introduction to Engineering provides students with an overview of the field of engineering and the primary processes and procedures used by engineers. Student 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.

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## *Vocational Education: Technology Education*

### **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.

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### **Renewable Technologies**

Cars that run on used vegetable oil. Electricity produced from your garbage. A windmill made from spare bicycle parts that pumps water to crops. Energy is life. So, how do we address the world's growing concerns about energy sources? Where will it come from in the future? How can energy be something sustainable, renewable, and accessible? Renewable Technologies begins to uncover the development of new energy technologies and explores how recent approaches to generating, storing, and creating this precious resource have evolved. By gaining a larger understanding of this challenge, we, as thoughtful people, can implement real change and unlock the solution needed for a safer, cleaner, and more enduring world.

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