



online courses

2022-2023

HIGH
SCHOOL
CATALOG
(grades 9-12)



Online Courses High School Catalog

Clonlara School partners with Apex Learning, eDynamic Learning (Buzz), and Aurora Learning (ACE) to bring students a wide variety of learning and course options to meet their individual needs. Apex and Buzz course are taught by Clonlara staff. ACE courses are taught by ACE staff.

Each course notes in which platform the course would be taken.

Courses labeled with * are additionally offered at honors level.

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MATH

Algebra 1* (Apex)

2 semesters, 1.0 credit

Algebra I builds students' command of linear, quadratic, and exponential relationships. Students learn through discovery and application, developing the skills they need to break down complex challenges and demonstrate their knowledge in new situations.

Course topics include problem-solving with basic equations and formulas; an introduction to functions and problem solving; linear equations and systems of linear equations; exponents and exponential functions; sequences and functions; descriptive statistics; polynomials and factoring; quadratic equations and functions; and function transformations and inverses.

Algebra 1-A (Apex)

2 semesters, 1.0 credit

Prerequisite: Introductory Algebra (Pre-algebra) or Math 8)

Algebra I-A and I-B provide an expanded, two-year course sequence designed for students who are not prepared for the academic challenges of the traditional one-year Algebra I curriculum. Focusing on review of pre-algebra skills and introductory algebra content, Algebra I-A allows students to deepen their understanding of real numbers in their various forms and then extend their knowledge to linear equations in one and two variables.

Algebra 1-B (Apex)

2 semesters, 1.0 credit

Prerequisite: Algebra 1-A

Algebra I-A and I-B provide an expanded, two-year course sequence designed for students who are not prepared for the academic challenges of the traditional one-year Algebra I curriculum. Algebra I-B course topics include a review of introductory algebra; measurement; graphing data; linear equations; systems of linear equations; polynomials; factoring of polynomials; factoring of quadratic functions; rational expressions; and radical expressions.

Algebra 2* (Apex)

2 semesters, 1.0 credit

Prerequisites: Algebra 1 and Geometry

Algebra II introduces students to advanced functions, with a focus on developing a strong conceptual grasp of the expressions that define those functions. Students learn through discovery and application, developing the skills they need to break down complex challenges and demonstrate their knowledge in new situations.

Course topics include quadratic equations and functions; polynomial functions; rational expressions and functions; radical expressions and functions; exponential and logarithmic functions; trigonometric functions; modeling with functions; probability and inferential statistics; probability distributions; and sampling distributions and confidence intervals.

Bridge Math (Apex)

2 semesters, 1.0 credit

Prerequisite: Two years of Algebra and one year of Geometry

Bridge Math is a fourth-year math course focused on reinforcing core concepts from Algebra I, Geometry and Algebra II. Bridge Math is intended for students who need to review concepts before continuing their studies. It starts with a review of algebraic concepts before moving on to a variety of key algebraic, geometric, statistical, and probability concepts. Course topics include rational and irrational numbers, systems of linear equations, quadratic functions, exponential functions, triangles, coordinate geometry, solid geometry, conditional probability, independence, data analysis, scatterplots, and linear and non-linear models of data.

Financial Literacy (Apex)

1 semester, .5 credit

Prerequisite: Introductory Algebra (Pre-Algebra) or equivalent.

Financial Literacy offers an engaging, scaffolded curriculum that introduces key topics and principles necessary to financial literacy. The one-semester course covers earning and spending; savings and investing; credit and debt; protection of assets; and financial planning and decision-making. Through real-life scenarios and hands-on activities, the course explores choosing among banking and investment options, shopping for an auto loan, choosing among career and college options, financing options for continuing education, planning for retirement, and creating and living within a budget. As a social studies course, Financial Literacy is designed to complement courses in Economics and Mathematics for Personal Finance.

Fundamental Math (Apex)

2 semesters, 1.0 credit

Fundamental Math explores foundational concepts in math. Students master basic skills and extend their knowledge as they prepare for more advanced work. Topics include basic number concepts such as whole numbers, counting, place value, rounding, exponents, and negative numbers; addition and subtraction; and multiplication and division. The course also covers fractions, operations with fractions, decimals, percentages, ratios, problem solving, basic concepts in geometry, and measuring shapes.

Geometry* (Apex)

2 semesters, 1.0 credit

Prerequisite: Algebra 1

Geometry builds upon students' command of geometric relationships and formulating mathematical arguments. Students learn through discovery and application, developing the skills they need to break down complex challenges and demonstrate their knowledge in new situations. Course topics include

reasoning, proof, and the creation of sound mathematical arguments; points, lines, and angles; triangles and trigonometry; quadrilaterals and other polygons; circles; congruence, similarity, transformations, and constructions; coordinate geometry; three-dimensional solids; and applications of probability.

Introductory Algebra (Pre-Algebra) (Apex)

2 semesters, 1.0 credit

Introductory Algebra provides a curriculum focused on foundational concepts that prepare students for success in Algebra I. Through a "Discovery-Confirmation-Practice"-based exploration of basic concepts, students are challenged to work toward a mastery of computational skills, to deepen their understanding of key ideas and solution strategies, and to extend their knowledge through a variety of problem-solving applications.

Course topics include integers; the language of algebra; solving equations with addition, subtraction, multiplication, and division; fractions and decimals; measurement; exponents; solving equations with roots and powers; multi-step equations; and linear equations.

Liberal Arts Mathematics 1 (Apex)

2 semesters, 1.0 credit

Prerequisite: Introductory Algebra (Pre-algebra)

Liberal Arts Mathematics 1 addresses the need for an elective course that focuses on reinforcing, deepening, and extending a student's mathematical understanding. Liberal Arts Mathematics 1 starts with a review of problem-solving skills before moving on to a variety of key algebraic, geometric, and statistical concepts. Throughout the course, students hone their computational skills and extend their knowledge through problem solving and real-world applications. Course topics include problem solving; real numbers and operations; functions and graphing; systems of linear equations; polynomials and factoring; geometric concepts such as coordinate geometry and properties of geometric shapes; and descriptive statistics.

Liberal Arts Mathematics 2 (Apex)

2 semesters, 1.0 credit

Liberal Arts Mathematics 2 addresses the need for a course that meets graduation requirements and focuses on reinforcing, deepening, and extending a student's mathematical understanding. Liberal Arts Mathematics 2 starts with a review of algebraic concepts before moving on to a variety of key algebraic, geometric, statistical and probability concepts. Throughout the course, students hone their computational skills and extend their knowledge through problem solving and real-world applications. Course topics include analysis of quadratic, polynomial, exponential and logarithmic functions, arithmetic and geometric sequences, trigonometry and trigonometric functions, coordinate geometry and proofs, statistical analysis, experimental design and applications of probability.

Math Foundations 1 (Apex)

2 semesters, 1.0 credit

Math Foundations I offers a structured remediation solution based on the NCTM Curricular Focal Points and is designed to expedite student progress in acquiring 3rd- to 5th-grade skills. The course is appropriate for use as remediation for students in grades 6 to 12. When used in combination, Math Foundations I and Math Foundations II (covering grades 6 to 8) effectively remediate computational skills and conceptual understanding needed to undertake high school-level math courses with confidence.

Math Foundations 2 (Apex)

2 semesters, 1.0 credit

Based on the NCTM Curricular Focal Points, Math Foundations II is designed to expedite student progress in acquiring 6th- to 8th-grade skills. The course is appropriate for use as remediation at the high school level or as middle school curriculum. The program simultaneously builds the computational skills and conceptual understanding needed to undertake high school-level math courses with confidence.

Mathematics 1 (Apex)

2 semesters, 1.0 credit

Prerequisite: Introductory Algebra (Pre-algebra)

Mathematics I builds students' command of geometric knowledge and linear and exponential relationships. Students learn through discovery and application, developing the skills they need to break down complex challenges and demonstrate their knowledge in new situations. Course topics include relationships between quantities; linear and exponential relationships; reasoning with equations; descriptive statistics; congruence, proof, and constructions; and connecting algebra and geometry through coordinates.

Mathematics 2 (Apex)

2 semesters, 1.0 credit

Prerequisite: Mathematics 1

Mathematics II extends students' geometric knowledge and introduces them to quadratic expressions, equations, and functions, exploring the relationship between these and their linear and exponential counterparts. Students learn through discovery and application, developing the skills they need to break down complex challenges and demonstrate their knowledge in new situations. Course topics include extending the number system; quadratic functions and modeling; expressions and equations; applications of probability; similarity, right-triangle trigonometry, and proof; and circles with and without coordinates.

Mathematics 3 (Apex)

2 semesters, 1.0 credit

Prerequisites: Mathematics 1 and 2

Mathematics III incorporates advanced functions, trigonometry, and probability and statistics as students synthesize their prior knowledge and solve increasingly challenging problems. Students learn through discovery and application, developing the skills they need to break down complex challenges and demonstrate their knowledge in new situations.

Course topics include formulating inferences and conclusions from data; polynomial, rational, and radical relationships; trigonometry of general triangles and trigonometric functions; and mathematical modeling.

Mathematics of Personal Finance (Apex)

2 semesters, 1.0 credit

Prerequisites: Algebra 1 and Geometry (or their equivalents)

Mathematics of Personal Finance focuses on real-world financial literacy, personal finance, and business subjects. Students apply what they learned in Algebra I and Geometry to topics including personal income, taxes, checking and savings accounts, credit, loans and payments, car leasing and purchasing, home mortgages, stocks, insurance, and retirement planning. Students then extend their investigations using more advanced mathematics, such as systems of equations (when studying cost and profit issues) and exponential functions (when calculating interest problems). To assist students for whom language presents a barrier to learning or who are not reading at grade level, Mathematics of Personal Finance includes audio resources in both Spanish and English.

Personal and Family Finance (Buzz)

1 semester, .5 credit

We all know money is essential in life, and the financial decisions you make today may have a lasting effect on your future. Explore how to spend and save your money wisely, and learn key financial concepts around taxes, credit, and money management. Discover how education, career choices, and financial planning can lead you in the right direction to making your life simpler, steadier, and more enjoyable.

Precalculus* (Apex)

2 semesters, 1.0 credit

Prerequisites: Two years of Algebra and one year of Geometry

Precalculus is a course that combines reviews of algebra, geometry, and functions into a preparatory course for calculus. The course focuses on the mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. The first semester includes linear, quadratic, exponential, logarithmic, radical, polynomial, and rational functions; systems of equations; and conic sections. The second semester covers trigonometric ratios and functions; inverse trigonometric functions; applications of trigonometry, including vectors and laws of cosine and sine; polar functions and notation; and arithmetic of complex numbers.

Probability and Statistics (Apex)

2 semesters, 1.0 credit

Probability and Statistics provides a curriculum focused on understanding key data analysis and probabilistic concepts, calculations, and relevance to real-world applications. Students are challenged to work toward mastery of computational skills, apply calculators and other technology in data analysis, deepen their understanding of key ideas and solution strategies, and extend their knowledge through a variety of problem-solving applications.

Course topics include types of data, common methods used to collect data, and representations of data, including histograms, bar graphs, box plots, and scatterplots. Students learn to work with data by analyzing and employing methods of extending results, involving samples and populations, distributions, summary statistics, experimental design, regression analysis, simulations, and confidence intervals.

SCIENCE

Agriscience 1: Introduction (Buzz)

1 semester, .5 credit

The word “agriculture” often evokes images of farms, fields, and livestock, and while all of these representations are correct and essential, the field of Agriculture is so much more! In Agriscience I: Introduction, you’ll explore how agriscientists play key roles in improving agriculture, food production, and the conservation of natural resources along with the technologies used to keep the field thriving. Are you ready to explore the diverse careers in agriscience and how you can prepare to positively impact the planet? Let’s get growing!

Agriscience 2: Sustaining Human Life (Buzz)

1 semester, .5 credit

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. Let’s delve deeper into important agri-areas such as soil science and weed management. And explore research on plant and animal diseases as well as the insects and other pests that can impact agricultural enterprises and natural resources. 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.

Anatomy and Physiology 1a: Introduction (Buzz)

1 semester, .5 credit

Whether you plan on pursuing a career in health sciences or simply looking to gain an understanding of how the human body works, you’ll first need to understand the relationship between anatomy and physiology. Learn how to read your body’s story through understanding cell structure and their processes, and discover the functions and purposes of the skeletal, muscular, nervous, and cardiovascular systems, as well as diseases that affect those systems.

Anatomy and Physiology 1b: Discovering Form and Function (Buzz)

1 semester, .5 credit

Examine the form and function of even more body systems. Learn about the structure, function, and interrelation between the lymphatic, immune, respiratory, digestive, urinary, and endocrine systems. The reproductive system is also discussed along with hereditary traits and genetics. And discover the importance of accurate patient documentation as well as the technology used in the industry

Astronomy 1a: Introduction (Buzz)

1 semester, .5 credit

Ever wondered how the Earth developed and exists in the vastness of space? How do the scientific laws of motion and gravity play a role in its existence? Discover answers to these questions and explore the origin of the universe, the Milky Way, and other galaxies and stars, including the concepts of modern astronomy and the methods used by astronomers to learn more about the universe.

Astronomy 1b: Exploring the Universe (Buzz)

1 semester, .5 credit

Ready to explore our amazing and dynamic universe even further? You'll be taken on an exciting journey through the solar system to explore the sun, comets, asteroids, meteors, life cycles of stars, and planets' properties. Become familiar with the concepts of space travel and settlements, and what it could be like to live and work in space. How exciting!

Biotechnology 1a: Introduction (Buzz)

1 semester, .5 credit

Biotechnology is a cutting-edge, high-demand field that encompasses everything from plant and animal breeding to genetics. Discover how biotechnology has changed the world around us, from food to genetics. Explore historical applications with modern discoveries. Understand how regulations and ethics govern the course of biotechnology and learn of its importance to the field of medicine.

Biotechnology 1b: Unlocking Nature's Secrets (Buzz)

1 semester, .5 credit

Dig deeper into the world of biotechnology! Learn how and why biotechnology is so important to the agricultural, pharmaceutical, and genetic fields of study. You'll learn about mapping the human genome, the role of antibiotics, how medicine is created to combat diseases, and the future of the biotechnology field. It's time to explore the depth and breadth of this fascinating field!

Biology* (Apex)

2 semesters, 1.0 credit

Biology focuses on the mastery of basic biological concepts and models while building scientific inquiry skills and exploring the connections between living things and their environment. The course begins with an introduction to the nature of science and biology, including the major themes of structure and function, matter and energy flow, systems, and the interconnectedness of life. Students

then apply those themes to the structure and function of the cell, cellular metabolism, and biogeochemical cycles. Building on this foundation, students explore the connections and interactions between living things by studying genetics, ecosystems and natural selection, and evolution. The course ends with an applied look at human biology.

Chemistry* (Apex)

2 semesters, 1.0 credit

Prerequisite: Middle school/junior high Physical Science, and one year of Algebra

Chemistry offers a curriculum that emphasizes students' understanding of fundamental chemistry concepts while helping them acquire tools to be conversant in a society highly influenced by science and technology. The course provides students with opportunities to learn and practice critical scientific skills within the context of relevant scientific questions. Topics include the nature of science, the importance of chemistry to society, atomic structure, bonding in matter, chemical reactions, redox reactions, electrochemistry, phases of matter, equilibrium and kinetics, acids and bases, thermodynamics, quantum mechanics, nuclear reactions, organic chemistry, and alternative energy.

Chemistry in the Earth System (Apex)

2 semesters, 1.0 credit

Prerequisite: Middle school/junior high Physical Science, and one year of Algebra

Chemistry in the Earth System integrates chemistry with biology and Earth science. Throughout the course, students apply fundamental chemistry concepts to better understand how matter and energy interact in the natural and designed world, how human activities impact Earth's systems, and how science can be used to develop new technologies and engineering solutions. Course topics include the nature of matter, forces and energy, atomic structure, bonding in matter, chemical reactions, equilibrium and kinetics, thermodynamics, matter and energy in Earth's physical and living systems, energy and resource consumption, and environmental challenges.

Earth Science* (Apex)

2 semesters, 1.0 credit

Earth Science offers a focused curriculum that explores Earth's composition, structure, processes, and history; its atmosphere, freshwater, and oceans; and its environment in space. Course topics include an exploration of the major cycles that affect every aspect of life, including weather, climate, air movement, tectonics, volcanic eruptions, rocks, minerals, geologic history, Earth's environment, sustainability, and energy resources. Optional teacher-scored labs and projects encourage students to apply the scientific method.

Environmental Science (Apex)

2 semesters, 1.0 credit

Environmental Science explores the biological, physical, and sociological principles related to the environment in which organisms live on Earth, the biosphere. Course topics include natural systems on Earth, biogeochemical cycles, the nature of matter and energy, the flow of matter and energy through living systems, populations, communities, ecosystems, ecological pyramids, renewable and

non-renewable natural resources, land use, biodiversity, pollution, conservation, sustainability, and human impacts on the environment.

Forensics: The Science of Crime (Buzz)

1 semester, .5 credit

Fingerprints. Blood spatter. DNA analysis. Law enforcement is increasingly making use of the techniques and knowledge from the sciences to better understand the crimes that are committed and to catch those individuals responsible for the crimes. Explore techniques and practices used by forensic scientists during a crime scene investigation (CSI). Starting with how clues and data are recorded and preserved, you'll follow evidence trails until the CSI goes to trial in the criminal justice system, examining how various elements of the crime scene are analyzed and processed.

Forensic Science: Secrets of the Dead (Buzz)

1 semester, .5 credit

Fingerprints. Blood spatters. Gunshot residue. If these things intrigue you rather than scare you, then forensic science may be for you. Explore the riveting job of crime scene analysis, and learn the techniques and practices applied during a crime scene investigation, including how clues and data are recorded and preserved. Discover how technology is applied to make discoveries and bring criminals to justice.

Forensic Science 2: More Secrets of the Dead (Buzz)

1 semester, .5 credit

The best way to battle crime these days is not with a weapon, but with science. Dig deeper into the science of forensics and the basic scientific principles used in the lab, such as toxicology, material analysis, microscopy, and forensic anthropology. Find out how scientists use everything from insects to bones to help them solve crimes. And discover how advanced techniques and technology can lead to catching even the craftiest criminal.

Great Minds in Science: Ideas for a new Generation (Buzz)

1 semester, .5 credit

Does life exist on other planets? Will the issue of global warming ever be solved? Today, scientists, explorers, and writers are working to answer such questions. Like such famous minds from history as Edison, Einstein, Curie, and Newton, today's scientists are finding ways to revolutionize our lives and the world. Explore the extraordinary work of past individuals and how their ideas may very well shape the world of tomorrow.

Marine Science: Secrets of the Blue (Buzz)

1 semester, .5 credit

Have you ever wondered about the secrets of the deep and the creatures below the ocean's surface? It is truly a new frontier of discovery. Begin to better understand the aquatic cycles, structures, and

processes that generate and sustain life in the sea. You'll use scientific inquiry, research, and problem-solving to conduct various scientific procedures and become a more capable marine scientist.

Physical Science (Apex)

2 semesters, 1.0 credit

Physical Science offers a focused curriculum designed around the understanding of foundational physical science concepts, including the nature of matter, energy, and forces, as well as the application of scientific and engineering practices. Course topics include energy, forces, electromagnetism, waves, matter, chemical reactions, and nuclear reactions. Teacher-scored labs encourage students to apply the scientific method.

Physics* (Apex)

2 semesters, 1.0 credit

Prerequisite: One year of Algebra (two years recommended)

Physics offers a curriculum that emphasizes students' understanding of fundamental physics concepts while helping them acquire tools to be conversant in a society highly influenced by science and technology. The course provides students with opportunities to learn and practice critical scientific skills within the context of relevant scientific questions. Topics include the nature of science, math for physics, energy, kinematics, force and motion, momentum, gravitation, chemistry for physics, thermodynamics, electricity, magnetism, waves, nuclear physics, quantum physics, and cosmology.

Physics of the Universe (Apex)

2 semesters, 1.0 credit

Prerequisite: One year of Algebra (two years recommended)

Physics of the Universe integrates physics with Earth and space science. Throughout the course, students apply fundamental physics concepts to better understand the impact of human activities on Earth's systems and how forces, energy, and matter interact throughout the universe. Course topics include electricity and magnetism, energy consumption and resources, dynamics, momentum and gravitation, waves, cosmology, and an exploration of Earth's physical systems.

Science Foundations (Apex)

2 semesters, 1.0 credit

Science Foundations provides students with opportunities to develop the knowledge, skills, and strategies necessary for success in rigorous high school science courses. The course is appropriate for use as remediation at the high school level or as a bridge to high school.

The Living Earth (Apex)

2 semesters, 1.0 credit

The Living Earth integrates biology with Earth and space science. Throughout the course, students apply fundamental biological concepts to better understand how living systems and Earth's systems are interrelated and interdependent.

Course topics include structure and function of living organisms, heredity, genetic variation, natural selection, evolution, the biosphere, types of ecosystems and biomes, the ecology of populations and communities, the effects of change on the biosphere and its parts, the relationship of humans with the environment, and explorations of challenges humans face and sustainable solutions for the future health of Earth and its inhabitants.

Veterinary Science: The Care of Animals (Buzz)

1 semester, .5 credit

Whether you want to step into the wild side of veterinary medicine or just take care of loveable dogs and cats, explore how to care for domestic, farm, and wild animals, diagnose their common diseases and ailments, and learn about different veterinary treatments. If you have always been drawn to the world of our furry, scaly, and feathered friends, this is the course for you!

SOCIAL STUDIES AND SOCIAL SCIENCES

African American History (Buzz)

1 semester, .5 credit

Throughout U.S. history, how have African Americans helped shaped American culture? This course answers that question by tracing African Americans' accomplishments and obstacles, beginning with the slave trade on up to the modern Civil Rights movement. Learn about the political, economic, social, religious, and cultural factors that have influenced African American life, meet individuals who changed the course of history, and explore how the African American story still influences current events.

Introduction to Anthropology (Buzz)

1 semester, .5 credit

What makes us human? Is it our ability to use language, tools, or technology? Trace the history of homo sapiens and explore our evolutionary trail through an anthropologic lens to observe our movement from cave dwellers to modern humans. Learn how we forged our way and developed all of the things that make us humans, such as our cultures, languages, and religions.

Anthropology 2: More Human Mysteries Uncovered (Buzz)

1 semester, .5 credit

How does your culture influence you? Many of our ancient cultures and languages were shaped by the geographical locations of our ancestors. And by examining their views on life, death, art, and

survival, we begin to understand how ancient cultures flourished. In looking back and learning about cultures, we are better equipped to understand the world around us.

Archaeology: Detectives of the Past (Buzz)

1 semester, .5 credit

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

Economics (Apex)

1 semester, .5 credit

Prerequisite: U.S. Government and Politics is recommended, but not required

The course covers fundamental properties of economics, including an examination of markets from both historical and current perspectives; the basics of supply and demand; the theories of early economic philosophers such as Adam Smith and David Ricardo; theories of value; the concept of money and how it evolved; the role of banks, investment houses, and the Federal Reserve; Keynesian economics; the productivity, wages, investment, and growth involved in capitalism; unemployment, inflations, and the national debt; and a survey of the global economy.

Economics and Personal Finance (Apex)

2 semesters, 1.0 credit

Economics and Personal Finance offers a tightly focused and scaffolded curriculum that provides an introduction to key economic principles. The course covers fundamental properties of economics, including an examination of markets from both historical and current perspectives; the basics of supply and demand; the theories of early economic philosophers such as Adam Smith and David Ricardo; theories of value; the concept of money and how it evolved; the role of banks, investment houses, and the Federal Reserve; Keynesian economics; the productivity, wages, investment, and growth involved in capitalism; unemployment, inflations, and the national debt; and a survey of the global economy. The course extends students' understanding of these principles in the context of personal finance, exploring issues such as career planning, budgeting, credit, taxes, investing, insurance, loans, and major purchases.

Geography and World Cultures* (Apex)

1 semester, .5 credit

Geography and World Cultures offers a tightly focused and scaffolded curriculum that enables students to explore how geographic features, human relationships, political and social structures, economics, science and technology, and the arts have developed and influenced life in countries around the world. Along the way, students are given rigorous instruction on how to read maps, charts, and graphs, and how to create them.

History of the Holocaust (Buzz)

1 semester, .5 credit

“For the dead and the living, we must bear witness.” Discover the harrowing details of the history of the rise of anti-Semitism that contributed to the start of the Holocaust and the power of the Nazi party. Learn of the persecution of European Jews and other groups, and the tremendous aftermath for everyone involved in World War II, and what has been done since to combat genocide.

Human Geography: Our Global Identity (Buzz)

1 semester, .5 credit

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, beliefs, and lifestyles? Learn how diverse people have physically influenced the world around them and how they, in turn, are changed by their surroundings. Let's explore the important relationship between humans and their environments.

Introduction to Women's Studies: A Personal Journey Through Film (Buzz)

1 semester, .5 credit

Break down stereotypes and learn about feminism and the women's movement. Learn to critically examine films while learning about the history of the women's movement and how gender, race, and social class influence us. Women have earned their right to stand up and be recognized as equal partners and reap the benefits of their hard work. As the anonymous quote goes, “History is Herstory too.”

Introduction to Philosophy (Buzz)

1 semester, .5 credit

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

Modern World History from 1450 (Apex)

2 semesters, 1.0 credit

In Modern World History from 1450, students study the major turning points that shaped the modern world including the expansion of Islamic and Asian empires, transoceanic exploration, the Atlantic slave trade, the Enlightenment, industrialization, imperialism, nationalism, political revolutions, the world wars, the Cold War, decolonization, and globalization. By presenting content from multiple perspectives and through diverse primary and secondary source materials, this course not only provides students with a solid foundation in the history of the modern era, but it also prepares students to be active and informed citizens of the world.

Modern World History from 1600 (Apex)

2 semesters, 1.0 credit

In Modern World History from 1600, students study the major turning points that shaped the modern world including the Enlightenment, industrialization, imperialism, nationalism, political revolutions, the world wars, the Cold War, decolonization, and globalization. By presenting content from multiple perspectives and through diverse primary and secondary source materials, this course provides students with a solid foundation in the history of the modern era and prepares students to be active and informed citizens of the world.

Multicultural Studies (Apex)

1 semester, .5 credit

Multicultural Studies is a one-semester elective history and sociology course that examines the United States as a multicultural nation. The course emphasizes the perspectives of minority groups while allowing students from all backgrounds to better understand and appreciate how race, culture and ethnicity, and identity contribute to their experiences.

Major topics in the course include identity, immigration, assimilation and distinctiveness, power and oppression, struggles for rights, regionalism, culture and the media, and the formation of new cultures.

Psychology (Apex)

1 semester, .5 credit

Psychology provides a solid overview of the field's major domains: methods, biopsychology, cognitive and developmental psychology, and variations in individual and group behavior.

By focusing on significant scientific research and on the questions that are most important to psychologists, students see psychology as an evolving science. Each topic clusters around challenge questions, such as "What is happiness?" Students answer these questions before, during, and after they interact with direct instruction.

Personal Psychology: The Road to Self-Discovery (Buzz)

1 semester, .5 credit

Have you ever wondered why you do the things you do? Or how our behavior changes as we age? Psychology can give you the answers! Trace the development of personality and behavior from infancy through adulthood. Are you ready to explore the world of human behavior? Explore all that psychology can offer to help you to truly understand the human experience.

Personal Psychology: Living in a Complex World (Buzz)

1 semester, .5 credit

Why do you sometimes remember complex things but forget all of a sudden where you left your shoes? Why is your personality similar or different from your siblings? Why do some things motivate

you more than others? Discover how you learn and remember, the impact of stress on your emotions and mental health, and what influences your personality and emotions. Basically, let's explore what makes you 'you'!

Sociology (Apex)

1 semester, .5 credit

Sociology examines why people think and behave as they do in relationships, groups, institutions, and societies. Major course topics include individual and group identity, social structures and institutions, social change, social stratification, social dynamics in recent and current events, the effects of social change on individuals, and the research methods used by social scientists.

Sociology 1: The Study of Human Relationships (Buzz)

1 semester, .5 credit

Human beings are complex creatures, and when we interact and begin to form relationships and societies, things become even more complicated. Are we more likely to act differently in a group than we will when we're alone? How do we learn how to be "human"? Examine answers to these questions and many more as you explore culture, group behavior, and societal institutions and how they affect human behavior.

Sociology 2: Your Social Life (Buzz)

1 semester, .5 credit

Have you ever looked at your social media feed and wondered why there is always so much fighting over social issues? Discover how social institutions like families, religion, government, and education shape our world and how collective behavior and social movements can create change. Investigate how our lives are shaped by entertainment, social institutions, and social change.

Social Problems 1: A World in Crisis (Buzz)

1 semester, .5 credit

War, crime, poverty, global warming, healthcare, effects of media, and more. Explore some of the biggest challenges facing our world today and what led to these social problems. What effects do they have on our lives and societies? What possible solutions exist for solving them? Discover what measures you can take to tackle these issues head-on and start to develop your plan of action.

Social Problems: Crisis, Conflicts and Challenges (Buzz)

1 semester, .5 credit

Sometimes our world is filled with problems. Explore more of the challenges we face as individuals and as a global society and learn what we can do to reduce the effects of these conflicts and problems. From drug abuse to terrorists to homelessness and obesity, we can better face and solve these problems when we have a deeper understanding of their causes and influences on our lives.

U.S History* (Apex)

2 semesters, 1.0 credit

Prerequisite: U.S. History is recommended, but not required

U.S. History traces the nation's history from the pre-colonial period to the present. Students learn about the Native American, European, and African people who lived in America before it became the United States. They examine the beliefs and philosophies that informed the American Revolution and the subsequent formation of the government and political system. Students investigate the economic, cultural, and social motives for the nation's expansion, as well as the conflicting notions of liberty that eventually resulted in civil war. The course describes the emergence of the United States as an industrial nation and then focuses on its role in modern world affairs.

U.S History to the Civil War (Apex)

1 semester, .5 credit

This course traces the nation's history from the pre-colonial period to the end of the American Civil War. It emphasizes the colonial period and the creation of a new nation and examines the beliefs and philosophies that informed the American Revolution and the subsequent formation of the government and political system.

Students first explore the earliest points of contact between individuals from Europe, Africa, and North America. They then probe the economic, cultural, and social motives for the nation's expansion, as well as the conflicting notions of liberty that eventually resulted in the Civil War. Woven throughout this narrative history is a strong focus on the changing conditions of women, African Americans, and other minority groups. The ways in which Americans lived, ate, dressed, and interacted are also highlighted.

U.S History Since the Civil War* (Apex)

2 semesters, 1.0 credit

This course traces the nation's history from the end of the Civil War to the present. It describes the emergence of the United States as an industrial nation, highlighting social policy as well as its role in modern world affairs. Students evaluate the attempts to bind the nation together during Reconstruction while also exploring the growth of an industrial economy. Moving into the 20th and 21st centuries, students probe the economic and diplomatic interactions between the United States and other world players while investigating how the world wars, the Cold War, and the "information revolution" affected the lives of ordinary Americans. Woven through this chronological sequence is a strong focus on the changing conditions of women, African Americans, and other minority groups.

U.S Government and Politics* (Apex)

1 semester, .5 credit

In U.S. Government and Politics, students examine the history, principles, and function of the political system established by the U.S. Constitution. Starting with a basic introduction to the role of government in society and the philosophies at the heart of American democracy, this course provides students with the knowledge needed to be informed and empowered participants in the U.S. political system.

World History* (Apex)

2 semesters, 1.0 credit

In World History, students learn to see the world today as a product of a process that began thousands of years ago when humans became a speaking, travelling, and trading species. Through historical analysis grounded in primary sources, case studies, and research, students investigate the continuity and change of human culture, governments, economic systems, and social structures.

World History to the Renaissance* (Apex)

2 semesters, 1.0 credit

World History to the Renaissance traces the development of civilizations around the world from prehistory to the Renaissance. The course covers major themes in world history, including the development and influence of human-geographic relationships, political and social structures, economic systems, major religions and belief systems, science and technology, and the arts. Topics covered in this course include the birth of civilizations; the classical civilizations of India, China, Greece, and Rome; the rise of new empires such as the Byzantine; and an examination of civilizations in Africa and North and South America. From there, students journey to the Middle Ages and into the Renaissance.

World Religions: Exploring Diversity (Buzz)

1 semester, .5 credit

Throughout the ages, religions worldwide have shaped the political, social, and cultural aspects of societies. Explore the major religions that have played a role in human history, including Buddhism, Christianity, Confucianism, Hinduism, Islam, Judaism, Shintoism, and Taoism. Trace the major developments in these religions and examine their relationships with social institutions and culture, as well as the similarities and differences and connections and influences they have.

ENGLISH

Creative Writing (Apex)

1 semester, .5 credit

Prerequisite: English 10

Creative Writing is a course that focuses on the exploration of short fiction and poetry, culminating in a written portfolio that includes one revised short story and three to five polished poems. Students draft, revise, and polish fiction and poetry through writing exercises, developing familiarity with literary terms and facility with the writing process as they study elements of creative writing. Elements of fiction writing explored in this course include attention to specific detail, observation, character development, setting, plot, and point of view. In the poetry units, students learn about the use of sensory details and imagery, figurative language, and sound devices including rhyme, rhythm and

alliteration. They also explore poetic forms ranging from found poems and slam poetry to traditional sonnets and villanelles.

Creative Writing (Buzz)

1 semester, .5 credit

Literature is an important form of art that allows us to give voice to our emotions, create imaginary worlds, express ideas, and escape the confines of reality. Explore the writing process and find inspiration to build a story of your own, and learn literary techniques to create hybrid forms of poetry and prose. Let's turn your creative thoughts and ideas into pieces of creative writing.

Creative Writing: Unleashing the Core of your Imagination (Buzz)

1 semester, .5 credit

Writing can change the world. Think about the Declaration of Independence, the Bill of Rights, and Lincoln's 2nd In Augural Address. How have these writings shaped our country and the future? While you learn how to unleash the core of your imagination to develop your own creative writing, you'll also explore creative writing through foundational literary works from the 18th to 20th century of Colonialism to American Gothic to Modernism, and everything in between, while evaluating original writings and their interpretations.

English Foundations 1 (Apex)

2 semesters, 1.0 credit

English Foundations I supports adolescent literacy development at the critical stage between decoding and making meaning from text. Through intensive reading and writing skills instruction, deep practice sets, consistent formative feedback, graduated reading levels, and helpful strategy tips, the course leads students to improved comprehension and text handling. Semester 1 provides instruction in basic reading skills and vocabulary building. The student learns what a successful reader does to attack words and sentences and make meaning from them. Semester 2 provides instruction in basic writing skills, introduces academic tools, and demonstrates effective study skills. The student learns step-by-step processes for building effective paragraphs and learns how to use academic tools such as reference books and outlines. To provide additional support, the course uses text features and visual clues to draw students' attention to important information. The use of text features is also designed to help students internalize strategies for comprehending informational text.

English Foundations 2 (Apex)

2 semesters, 1.0 credit

English Foundations II offers a year of skill building and strategy development in reading and writing. Semester one is a reading program designed to help struggling readers develop mastery in the areas of reading comprehension, vocabulary building, study skills, and media literacy. Semester two is a writing program which builds confidence in composition fundamentals by focusing on the areas of composing, grammar, style, and media literacy. Both semesters are structured around ten mini-units which offer interactive instruction and guided practice in each of the four learning strands. Students read for a variety of purposes and write for a variety of audiences. The workshops stress high interest, engaging use of technology, relevant topics, and robustly scaffolded practice. Students learn

to use different types of graphic organizers as they develop and internalize reading and writing process strategies. They build confidence as they develop skills and experience success on numerous low stakes assessments that encourage growth and reinforce learning.

English 9* (Apex)

2 semesters, 1.0 credit

English 9 introduces students to informational and literary genres. Students investigate the elements of nonfiction and literature through the critical analysis of texts that range from essays, speeches, articles and historical documents to a novel, a play, poetry and short stories. As they develop their writing skills and respond to theses, students learn to formulate arguments and use textual evidence to support their position. Throughout the course, students learn to engage with a variety of media types through which they process and synthesize information, discuss material, create presentations, and share their work.

English 9 with Romeo and Juliet* (Apex)

2 semesters, 1.0 credit

The English 9 with Romeo and Juliet course is an overview of exemplar selections of literature in fiction and nonfiction genres. Students read short stories, poems, a full-length novel, and a full-length Shakespeare play, analyzing the use of elements of literature in developing character, plot, and theme. For example, in selected stories, students compare the effect of setting on tone and character development. Likewise, in the poetry unit, students analyze how artists and writers draw from and interpret source material.

Each unit includes informational texts inviting students to consider the historical, social, and literary context of the main texts they study. For example, in the first semester, a Nikolai Gogol story that is offered as an exemplar of magical realism is accompanied by instruction on that genre. Together, the lesson content and reading prompt students to demonstrate their understanding of magical realism by analyzing its qualities in a literary text. Throughout the course, students respond to others' claims and support their own claims in essays, discussions, and presentations, consistently using thorough textual evidence. The range of texts includes canonical authors such as William Shakespeare, Franz Kafka, and Elie Wiesel, as well as writers from diverse backgrounds, such as Alice Walker, Li-Young Lee, and Robert Lake-Thom.

English 10* (Apex)

2 semesters, 1.0 credit

Prerequisite: English 9

The focus of the English 10 course is the writing process. Three writing applications guide the curriculum: persuasive, expository, and narrative writing. Each lesson culminates in a written assignment that lets students demonstrate their developing skill in one of these applications. English 10 follows the model of English 9 by including at least one anchor text per lesson, but the essays, articles, stories, poems, and speeches are often presented as models for students to emulate as they practice their own writing. So that these readings may serve as proper examples for students, a high proportion of texts for this course are original pieces. English 10 also continues to develop students' reading, listening, and speaking skills. Readings include poems, stories, speeches, plays, and a graphic novel, as well as a variety of informational texts. The readings represent a wide variety of

purposes and cultural perspectives, ranging from the Indian epic The Ramayana to accounts of Hurricane Katrina told through different media. Audio and video presentations enhance students' awareness and command of rhetorical techniques and increase their understanding of writing for different audiences.

English 11* (Apex)

2 semesters, 1.0 credit

Prerequisite: English 9 and English 10

In the English 11 course, students examine the belief systems, events, and literature that have shaped the United States. They begin by studying the language of independence and the system of government developed by Thomas Jefferson and other enlightened thinkers. Next, they explore how the Romantics and Transcendentalists emphasized the power and responsibility of the individual in both supporting and questioning the government. Students consider whether the American Dream is still achievable and examine the Modernists' disillusionment with the idea that America is a "land of opportunity." Reading the words of Frederick Douglass and the text of the Civil Rights Act, students look carefully at the experience of African Americans and their struggle to achieve equal rights. Students explore how individuals cope with the influence of war and cultural tensions while trying to build and secure their own personal identity. Finally, students examine how technology is affecting our contemporary experience of freedom: Will we eventually change our beliefs about what it means to be an independent human being? Overall, students gain an understanding of the way American literature represents the array of voices contributing to our multicultural identity.

English 12* (Apex)

2 semesters, 1.0 credit

Prerequisite: English 9, English 10, and English 11

The English 12 course asks students to closely analyze world literature and consider how we humans define and interact with the unknown, the monstrous, and the heroic. In the epic poems The Odyssey, Beowulf, and The Inferno, in Shakespeare's Tempest, in the satire of Swift, and in the rhetoric of World War II, students examine how the ideas of "heroic" and "monstrous" have been defined across cultures and time periods and how the treatment of the "other" can make monsters or heroes of us all. Reading Frankenstein and works from those who experienced the imperialism of the British Empire, students explore the notion of inner monstrosity and consider how the dominant culture can be seen as monstrous in its ostensibly heroic goal of enlightening the world. Throughout this course, students analyze a wide range of literature, both fiction and nonfiction. They build writing skills by composing analytical essays, persuasive essays, personal narratives, and research papers. In order to develop speaking and listening skills, students participate in discussions and prepare speeches. Overall, students gain an understanding of the way world literature represents the array of voices that contribute to our global identity.

Gothic Literature: Monster Stories (Buzz)

1 semester, .5 credit

It was a dark and stormy night, and the vampires, ghouls, and undead were on the prowl... Gothic Literature is riddled with the spooky, but did you know that this genre is so much more than a scary form of entertainment? In Gothic Literature, you'll learn about how some of the world's greatest authors from the 19th century through today used Gothic elements to tackle issues that needed

serious attention: the class system, gender norms, racism, social injustice, and more! Grab your monster gear and explore why Gothic literature has retained its appeal even with today's audiences.

Journalism 1a: Introduction (Buzz)

1 semester, .5 credit

Does your curiosity lead you to the heart of the matter? Channel this curiosity into developing strong writing, critical thinking, and research skills to perform interviews and write influential pieces, such as articles and blog posts. Learn about the evolution of journalism and its ethics, bias, and career directions to forge your path in this field.

Journalism 1b: Investigating the Truth (Buzz)

1 semester, .5 credit

Journalists are asked to tell the world a story every single day—and their job is, to tell the truth. Learn how to choose a topic, structure your story, research facts, hone your observational skills, and write an article following journalism tradition. Go beyond the print world and discover how journalism can lead to exciting careers that will put you right in the action.

Mythology and Folklore: Legendary Tales (Buzz)

1 semester, .5 credit

Since the beginning of time, people have gathered around fires to tell stories of angry gods, harrowing journeys, cunning animals, horrible beasts, and the mighty heroes who vanquished them. Mythology and folklore have provided a way for these colorful stories to spring to life for thousands of years and helped humans make sense of the world. Explore how these compelling tales continue to shape society even today.

Media Literacy (Apex)

1 semester, .5 credit

Media Literacy teaches students how to build the critical thinking, writing, and reading skills required in a media-rich and increasingly techno-centric world. In a world saturated with media messages, digital environments, and social networking, concepts of literacy must expand to include all forms of media. Today's students need to be able to read, comprehend, analyze, and respond to non-traditional media with the same skill level they engage with traditional print sources. A major topic in Media Literacy is non-traditional media reading skills, including how to approach, analyze, and respond to advertisements, blogs, websites, social media, news media, and wikis. Students also engage in a variety of writing activities in non-traditional media genres, such as blogging and podcast scripting.

Public Speaking 1a: Introduction (Buzz)

1 semester, .5 credit

Do you strive to gain more confidence when speaking in front of people? Learn techniques from famous speakers throughout history while learning what it takes to make a great speech. Develop skills that will serve you well throughout your career and personal life.

Public Speaking 1b: Finding your Voice (Buzz)

1 semester, .5 credit

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 in-person and virtual presentation skills.

Personal Communication (Apex)

1 semester, .5credit

Personal Communication is a one semester course that teaches students how to become effective at verbal and nonverbal expression. In a rapidly changing world filled with constantly evolving technology, social media, and social networking, students need skills to send clear verbal and nonverbal messages and adapt those messages to multiple contexts. Students need to prepare to identify, analyze, develop, and evaluate communication skills in personal, academic, and professional interactions. Major topics in Personal Communication include intrapersonal and interpersonal interaction, informal communication and interviewing, and preparing and delivering informal, informational, and persuasive addresses. Students also engage in recognizing bias, elements of ethical communication, conflict resolution, evaluating media messages, group dynamics, and participate in peer review.

Professional Communication (Buzz)

1 semester, .5 credit

In today's global economy, professional communication is no longer limited to the basics of reading, writing, speaking, and listening. In this course, you will focus on communication in many forms- written, oral, graphic, and technological- in the workplace to enhance career options while learning how to address conflict and communicate with cultural competency. By the end of this course, you'll have the basics you need to be a standout communicator in a professional setting.

Reading and Writing for Purpose (Buzz)

1 semester, .5 credit

As you move through high school to college or to your career, the types of writing and documents become more high stakes. Real-world information can be journalistic and researched-based articles, legal, insurance, college entrance forms, employment, vehicle-related documents, and more. Learn how to critically read, write, and evaluate real-world writings to set you up for your future success.

Reading Skills and Strategies (Apex)

1 semester, .5 credit

Reading Skills and Strategies is a course designed to help the struggling reader develop mastery in the areas of reading comprehension, vocabulary building, study skills, and media literacy, which are the course's primary content strands. Using these strands, the course guides the student through the skills necessary to be successful in the academic world and beyond. The reading comprehension strand focuses on introducing the student to the varied purposes of reading (e.g., for entertainment, for information, to complete a task, or to analyze). In the vocabulary strand, the student learns specific strategies for understanding and remembering new vocabulary. In the study skills strand, the student learns effective study and test-taking strategies. In the media literacy strand, the student learns to recognize and evaluate persuasive techniques, purposes, design choices, and effects of media. The course encourages personal enjoyment in reading with 10 interviews featuring the book choices and reading adventures of students and members of the community.

The Lord of the Rings: An Exploration of the Films and their Literary Influences (Buzz)

1 semester, .5 credit

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.

Writing Skills and Strategies (Apex)

1 semester, .5 credit

Writing Skills and Strategies develops key language arts skills necessary for high school graduation and success on high stakes exams through a semester of interactive instruction and guided practice in composition fundamentals. The course is divided into ten mini-units of study. The first two are designed to build early success and confidence, orienting students to the writing process and to sentence and paragraph essentials through a series of low-stress, high-interest hook activities. In subsequent units, students review, practice, compose and submit one piece of writing. Four key learning strands are integrated throughout: composition practice, grammar skill building, diction and style awareness, and media and technology exploration. Guided studies emphasize the structure of essential forms of writing encountered in school, in life, and in the workplace.

ELECTIVES

LANGUAGES

American Sign Language 1a: Introduction (Buzz)

1 semester, .5 credit

Did you know that American Sign Language (ASL) is the third most commonly used language in North America? Learn introductory vocabulary and simple sentences so that you can start communicating right away. Importantly, explore Deaf culture – social beliefs, traditions, history, values, and communities influenced by deafness.

American Sign Language 1b: Learn to Sign (Buzz)

1 semester, .5 credit

The predominant sign language of Deaf communities in the United States, American Sign Language, is complex and robust. Discover more of this language and its grammatical structures through expanding your vocabulary with acquiring hundreds of new signs. Additionally, explore interesting topics like Deaf education and Deaf arts and culture, and learn about careers where you can use your ASL skills.

American Sign Language 2a: Communicating (Buzz)

1 semester, .5 credit

It's time to move beyond introductory ASL signs and start forming more compelling signs for communication. Explore how expressions can enhance signs and lend dimension to conversations, while learning vocabulary for descriptions, directions, shopping, making purchases, and dealing with emergencies.

American Sign Language 2b: Advancing Communication Skills (Buzz)

1 semester, .5 credit

Ready to dive deeper into learning about the Deaf community, culture, and language? Learn about sequencing, transitions, role-shifts, and future tenses. Discover how to tell a story and ask questions, benefiting with greater exposure to deaf culture. Speed, conversations, signing skills, and cultural awareness are characteristics of this course.

American Sign Language 3a: Community and Culture (Buzz)

1 semester, .5 credit

As you dive into more advanced ASL signing, including unique grammar features and advanced classifiers and locatives, you'll learn, compose, and present your new-found vocabulary and narratives by immersing yourself in Deaf culture and community. From opinions, slang, and idioms, to using technology and media that offers authentic Deaf perspectives. Explore how travel, cultural differences, and geography affect sign language. And gain a better understanding of Deaf culture by learning important events and examining topics such as education, science, and literature.

American Sign Language 3b: Conversations and Culture (Buzz)

1 semester, .5 credit

Are you ready to discover ways in which Deaf culture influences the world in general? After all, the concept of culture goes far beyond an understanding of Deaf history. Through discussing Deaf culture and experiences, you'll advance your signing skills by developing verb tenses, grammar, and syntax. Apply your language skills in real conversation activities and through opportunities to debate real issues. It's also time to explore the next steps in education and career opportunities for your new intermediate ASL skills.

The courses below are on ACE's Platform which uses Rosetta Stone and Power Glide.

French 1 (ACE)

2 semesters, 1.0 credit

Students begin their introduction to French with fundamental building blocks in four key areas of world language study: listening comprehension, speaking, reading, and writing. Students are initially trained to recognize key sounds and basic vocabulary, not only in written form but also through ear training that leads quickly to oral production. An ongoing adventure story introduces vocabulary and grammar topics, prompting students to use skills from the four language-learning areas. Students learn fundamental grammar as embedded in authentic spoken language. Engaging graphics, videos, and games keep students interested, making learning languages exciting. An integrated, game-based reward system keeps learners motivated and eager to progress.

French 2 (ACE)

2 semesters, 1.0 credit

In this continuing introduction to French, students deepen their focus on four key skills in world language acquisition: listening comprehension, speaking, reading, and writing. A continuing storyline introduces and reinforces new vocabulary, while activities prompt students to analyze meaning from context, reproducing new vocabulary items in functional real-life oral expression. Additional verb tenses and idiomatic expressions are also introduced. As in French 1, students learn grammar through supplemental texts supplying traditional charts, tables, and explanations. Engaging graphics, videos, and games keep students interested, making learning languages exciting. An integrated, game-based reward system keeps learners motivated and eager to progress.

French 3 (ACE)

2 semesters, 1.0 credit

Intermediate French students who have a strong base in vocabulary, speaking, and listening skills reach a new level of mastery and fluency in this course. Through games and compelling stories, students learn advanced grammar and vocabulary, with an emphasis on correct accents and comprehension of real-world native speech. Error-recognition technology helps students eliminate common mistakes from their speaking and writing. Engaging graphics, videos, and games keep students interested, making learning languages exciting. An integrated, game-based reward system keeps learners motivated and eager to progress.

French 4 (ACE)

2 semesters, 1.0 credit

Deepen your understanding of the language as you build on your success achieved in levels 1, 2, and 3. Main topics of this course include: tourism and recreation, professions and hobbies, at home and around town, and style and personal wellness.

French 5 (ACE)

2 semesters, 1.0 credit

Develop command of the language as you refine the crucial communication skills you acquired in levels 1-4. Main topics in this course include: business and industry, arts and academics, emergency situations, and family and community.

Japanese 1 (ACE)

2 semesters, 1.0 credit

Build a foundation of fundamental vocabulary and essential language structure. Main topics of this course include: language basics, family and friends, work and school, and shopping.

Japanese 2 (ACE)

2 semesters, 1.0 credit

Navigate your surroundings and build on the vocabulary and essential language structure learned in Level 1. Main topics of this course include: travel, past and future, friends and social life, and dining and vacation.

Japanese 3 (ACE)

2 semesters, 1.0 credit

Connect with the world around you by building on the language fundamentals and conversational skills you developed in Levels 1 and 2. Main topics of this course include: home and health, life and world, places and events, and talking about the world.

Latin 1 (ACE)

2 semesters, 1.0 credit

The Latin 1 course allows the students to learn an ancient, “dead” language in a modern, lively manner. The course includes the fundamental building blocks of world language study: reading, writing, listening comprehension, and speaking. Students learn Latin vocabulary while enhancing their own vocabulary through derivatives with common Latin roots and are exposed to a wide range of grammar patterns that bolster their understanding of how languages work.

Latin 2 (ACE)

2 semesters, 1.0 credit

The Latin 2 course continues the study of the ancient language in a modern manner. The course is centered around mythology. Every two weeks a new myth, written in Latin, is introduced, which drives the weekly vocabulary, grammar lessons, and culture lessons. The weekly lessons stress the fundamental building blocks of world language study: reading, writing, listening comprehension, and speaking.

Mandarin Chinese 1 (ACE)

2 semesters, 1.0 credit

Students use compelling stories, games, videos, and multimedia experiences in this introduction to Chinese. They learn the elegant simplicity of Chinese grammar and the subtleties of Chinese pronunciation through entertaining lessons that give a base of conversational ability and listening comprehension. Students build a foundation for reading and writing in the Chinese language through an adaptive technology that lets them choose an approach that works best for them. Engaging graphics, videos, and games keep students interested, making learning languages exciting. An integrated, game-based reward system keeps learners motivated and eager to progress.

Mandarin Chinese 2 (ACE)

2 semesters, 1.0 credit

Students continue with engaging stories, games, videos, and multimedia experiences in this second level of Chinese. Students further their understanding of Chinese grammar and pronunciation through lessons refining previous practice of conversational ability and listening comprehension. Innovative cultural videos and lessons build awareness of the rich legacy of Chinese culture. Students expand their foundation for reading and writing in Chinese through adaptive technology, providing opportunities to generate fun narratives, a range of well-formed sentences reflecting a solid grasp of grammar structures, and a wide vocabulary. Engaging graphics, videos, and games keep students interested, making learning languages exciting. An integrated, game-based reward system keeps learners motivated and eager to progress.

Mandarin Chinese 3 (ACE)

2 semesters, 1.0 credit

Connect with the world around you by building on the language fundamentals and conversational skills you developed in levels 1 and 2. Main topics of this course include: home and health, life and world, places and events, and talking about the world.

Mandarin Chinese 4 (ACE)

2 semesters, 1.0 credit

Deepen your understanding of the language as you build on your success achieved in Levels 1, 2, and 3. Main topics of this course include: tourism and recreation, professions and hobbies, at home and around town, and style and personal wellness.

Mandarin Chinese 5 (ACE)

2 semesters, 1.0 credit

Develop command of the language as you refine the crucial communication skills you acquired in levels 1-4. Main topics in this course include: business and industry, arts and academics, emergency situations, and family and community.

Spanish 1 (ACE)

2 semesters, 1.0 credit

Students begin their introduction to Spanish with fundamental building blocks in four key areas of world language study: listening comprehension, speaking, reading, and writing. Students are initially trained to recognize key sounds and basic vocabulary, not only in written form but also through ear training that leads quickly to oral production. Vocabulary and grammar topics are introduced in an ongoing adventure story that prompts students to use skills from all four language-learning areas. Students learn fundamental grammar as embedded in authentic spoken language. Cultural information covers major Spanish-speaking areas in Europe and the Americas. Engaging graphics, videos, and games keep students interested, making learning languages exciting. An integrated, game-based reward system keeps learners motivated and eager to progress.

Spanish 2 (ACE)

2 semesters, 1.0 credit

In this continuing introduction to Spanish, students deepen their focus on four key skills in a world language acquisition: listening comprehension, speaking, reading, and writing. A continuing storyline introduces and reinforces new vocabulary, while activities prompt students to analyze meaning from context, and then to reproduce new vocabulary in real-life oral expression. Additional verb tenses and idiomatic expressions are also introduced. As in Spanish 1, students learn grammar through supplemental texts supplying traditional charts, tables, and explanations. Cultural information addresses Spanish as it is used around the globe. Engaging graphics, videos, and games keep students interested, making learning languages exciting. An integrated, game-based reward system keeps learners motivated and eager to progress.

Spanish 3 (ACE)

2 semesters, 1.0 credit

Intermediate Spanish students who have a strong base in vocabulary, speaking, and listening skills reach a new level of mastery and fluency in this course. Through games and compelling stories, students learn advanced grammar and vocabulary, with an emphasis on correct accents and comprehension of real-world native speech. Error-recognition technology helps students eliminate common mistakes from their speaking and writing. Engaging graphics, videos, and games keep students interested, making learning languages exciting. An integrated, game-based reward system keeps learners motivated and eager to progress.

Spanish 4 (ACE)

2 semesters, 1.0 credit

Deepen your understanding of the language as you build on your success achieved in levels 1, 2, and 3. Main topics of this course include: tourism and recreation, professions and hobbies, at home and around town, and style and personal wellness.

Spanish 5 (ACE)

2 semesters, 1.0 credit

Develop command of the language as you refine the crucial communication skills you acquired in levels 1-4. Main topics in this course include: business and industry, arts and academics, emergency situations, and family and community.

German 1 (ACE)

2 semesters, 1.0 credit

Students begin their introduction to German with fundamental building blocks in four key areas of world language study: listening comprehension, speaking, reading, and writing. Students are initially trained to recognize key sounds and basic vocabulary, not only in written form but also through ear training that leads quickly to oral production. Vocabulary and grammar topics are introduced in an ongoing adventure story that prompts students to use skills from all four language-learning areas. Students learn fundamental grammar as embedded in authentic spoken language. Cultural information covers major Spanish-speaking areas in Europe and the Americas. Engaging graphics, videos, and games keep students interested, making learning languages exciting. An integrated, game-based reward system keeps learners motivated and eager to progress.

German 2 (ACE)

2 semesters, 1.0 credit

In this continuing introduction to German, students deepen their focus on four key skills in a world language acquisition: listening comprehension, speaking, reading, and writing. A continuing storyline introduces and reinforces new vocabulary, while activities prompt students to analyze meaning from context, and then to reproduce new vocabulary in real-life oral expression. Additional verb tenses and idiomatic expressions are also introduced. As in Spanish 1, students learn grammar through supplemental texts supplying traditional charts, tables, and explanations. Cultural information

addresses Spanish as it is used around the globe. Engaging graphics, videos, and games keep students interested, making learning languages exciting. An integrated, game-based reward system keeps learners motivated and eager to progress.

German 3 (ACE)

2 semesters, 1.0 credit

Connect with the world around you by building on the language fundamentals and conversational skills you developed in levels 1 and 2. Main topics of this course include: home and health, life and world, places and events, and talking about the world.

ARTS

3D Modeling 1a: Introduction (Buzz)

1 semester, .5 credit

*****Please check recommended hardware requirements before enrolling in this class.**

Heart valves, cars, cartoons, and buildings may not seem to have much in common, but they all share one spectacular attribute: all originated as a 3D model. 3D modeling has changed the way the world makes things, and in this course, you'll learn the basics to begin creating in 3D! You'll learn how different 3D models are built and how to practice using a variety of modeling methods. By the end of the course, you'll walk away with a portfolio of your ingenious modeling ideas. 3D modeling is an essential part of the modern world and soon, you'll be able to contribute yourself!

3D Modeling 1b: Set the Scene (Buzz)

1 semester, .5 credit

*****Please check recommended hardware requirements before enrolling in this class.**

Many buildings that are rendered in the real world first are constructed in a digital 3D world that depicts the aesthetics, environment, and conditions of what will come to be. In this course, you will be introduced to the tools and techniques needed to create works of 3D art. You will bring your objects to life with color, textures, lighting, and shadow all while simulating the movement of world around. Are you ready to bring beautiful objects to life in a 3D world? Let's get started today!

Art Appreciation (Apex)

1 semester, .5 credit

Art Appreciation is a survey of the history of Western visual arts, with a primary focus on painting. Students begin with an introduction to the basic principles of painting and learn how to critique and compare works of art. Students then explore prehistoric and early Greek and Roman art before they move on to the Middle Ages. Emphasis is placed on the Renaissance and the principles and masters

that emerged in Italy and northern Europe. Students continue their art tour with the United States during the 20th century, a time of great innovation as abstract art took center stage. While Western art is the course's primary focus, students will finish the course by studying artistic traditions from Africa, Asia, Oceania, and the Americas.

Animation 1a: Introduction (Buzz)

1 semester, .5 credit

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

Animation 1b: Animating your Creativity (Buzz)

1 semester, .5 credit

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

Art in World Cultures (Buzz)

2 semesters, 1.0 credit

Art tells a story. Go on a journey of when humans began creating art in prehistoric times to ancient Roman, early Christian, and Medieval periods. Explore the artistic characteristics of the Renaissance, Americas, Baroque, Romantic, and more. Learn the elements and design principles of art, and about some of the greatest artists in the world, while creating your own art, both on paper and digitally. It's time to tell your story through art.

Digital Design 1a: Introduction (Buzz)

1 semester, .5 credit

Are you an artistic person drawn to the idea of creating graphic elements? Then a career in digital design may be for you! In this course, you will learn the basic principles of design, the tools needed to succeed in the industry and how to design objects for specific purposes and audiences. You'll also learn how to market yourself and open your own design business all while building a portfolio. Let's align your skills and dreams today for a career in digital design!

Digital Design 1b: Express your Ideas Visually (Buzz)

1 semester, .5 credit

Are you ready to dig deeper and discover more about the world of digital design? In this course, you will continue building the foundational skills necessary to become a successful graphic designer. You will learn and apply effective communication and people skills, explore and implement the design process, create images, properly use equipment, and evaluate and market your own designs. By the end of the course, you'll better be able to decide if a career in digital design is for you... and if the answer is yes, you'll be well on your way to designing a bright future!

Digital Media Web Design 2a: Build a Portfolio Website (Buzz)

1 semester, .5 credit

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

Digital Media Web Design 2b: Build an eCommerce Website (Buzz)

1 semester, .5 credit (Buzz)

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!

Digital Photography 1a: Introduction (Buzz)

1 semester .5 credit

Have you wondered how professional photographers manage to capture that perfect image? 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.

Digital Photography 1b: Creating Images with Impact (Buzz)

1 semester, .5 credit

Let's 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, and using this knowledge, build a portfolio of your work to pursue a career in this field!

Digital Photography: Discovering your Creative Potential (Buzz)

1 semester, .5 credit

We are surrounded by images, in advertisements, on websites, in magazines, and on billboards. Learn how to effectively critique photographs so you can better understand composition and go on to create more eye-catching photographs on your own. Examine various aspects of the photography field including specialty areas, ethics, and famous photographers throughout history.

Music Appreciation (Apex)

2 semesters, 1.0 credit

Music Appreciation introduces students to the history, theory, and genres of music, from the most primitive surviving examples through the classical to the most contemporary in the world at large. The course is offered in a two-semester format. The first semester covers primitive musical forms and classical music. The second semester presents the rich modern traditions, including American jazz, gospel, folk, soul, blues, Latin rhythms, rock and roll, and hip-hop. The course explores the interface of music and social movements and examines how the emergent global society and the Internet bring musical forms together in new ways from all around the world.

Music Appreciation: The Enjoyment of Listening (Buzz)

1 semester, .5 credit

Have you ever heard a music piece that made you want to get up and dance, sing, or even cry? Regardless of the genre, music moves us. Explore the elements and pieces of music. And learn through the historical context, musicians and composers, and influence of music from the Middle Ages to the 21st century, on how to listen and really hear the different music that makes up our world.

Theatre, Cinema and Film Production 1a: Introduction (Buzz)

1 semester, .5 credit

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!

Theatre, Cinema and Film Production 1b: Lights, Camera, Action! (Buzz)

1 semester, .5 credit

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.

INFORMATION TECHNOLOGY

Advanced Networking (Buzz)

1 semester, .5 credit

The world has never been more connected than it is today and through advancing network technologies, tomorrow will be even more tightly united. In this course, you will learn about a variety of different networks, their layers, and the different needs they address. You'll uncover best practices for setting up secure remote access connections, techniques to troubleshoot and think strategically, and correct documentation. Lastly, you'll learn tips to successfully communicate in the workplace. Get ready to support tomorrow's connectedness today!

Computer Science Essentials (Apex)

2 semesters, 1.0 credit

Computer Science Essentials offers a focused curriculum designed around foundational computer science concepts, including computer systems, programming, networks, and data management. The course also introduces students to foundational computer science skills such as coding, troubleshooting, and being a responsible digital citizen. Course topics include the history and impact of computers; careers in computer science; computing laws and ethics; bias and equity issues in computing; algorithms and coding; data storage, organization, and analysis; hardware and software; robotics; networks and the internet; cybersecurity and online safety; website design; and the use of abstraction in computing. Students discover new concepts through guided instruction and confirm their understanding in an interactive, feedback-rich environment.

Coding 1a: Introduction to Programming (Buzz)

1 semester, .5 credit

Have you ever wanted to create your own web page or wondered how your favorite websites were built? Explore the role technology plays in our lives as well as study the fundamentals of computer science, review hardware and software, and learn how the internet functions. Discover how to create and build your own website using HTML and CSS, and learn the basics of JavaScript and Python Programming. This course also covers data collection methods, access rights, protocols, and security. Have you ever wanted to create your own web page or wondered how your favorite websites were built? Explore the role technology plays in our lives as well as study the fundamentals of computer science, review hardware and software, and learn how the internet functions

Coding 1b: Programming (Buzz)

1 semester, .5 credit

Let's continue to cultivate an understanding of programming languages and expand on website development. You will learn the difference between web development and web application development as well as further explore Advanced Python, HTML, and JavaScript. You will also

examine software engineering concepts, learn more about security, privacy, and ethics in technology, and explore the wide variety of careers in computing.

Computer Maintenance 1a: Introduction (Buzz)

1 semester, .5 credit

Computers are soldered into all aspects of our daily life, and when they stop working, it can seem like our network has collapsed. If you are fascinated by the inner workings of computers and how to keep them running, then a career in computer maintenance may be for you! In this course, you'll learn how computers are set up starting with the software and operating systems and what to do when hardware and software issues are encountered. You'll learn different types of data communication, various power supply units, essential components like motherboards and memory and much more! Grab your personal expansion card, and let's hardwire some new knowledge about computer maintenance.

Computer Maintenance 1b: Network Needs

1 semester, .5 credit

Almost anywhere we go today, from malls to coffee shops, and even our homes is an intertwined web of wired, wireless, and cloud-based networks that access our personal data. In this course, you'll dig into computer networks and their extensive capabilities. You'll explore data exposure and how to mitigate threats, discuss the fundamentals of network design and layout, learn how cloud-based services store data, discover the differences between wired and wireless networks, and dream of possibilities as you explore fun network options like smart home systems. Let's continue navigating the complex world of computer maintenance.

Computer Applications (Apex)

1 semester, .5 credit

Computer Applications provides an introduction to software applications that prepares students to succeed in the workplace and beyond. Students will develop an understanding of professional communications and leadership skills while gaining proficiency with word processing, email, and presentation management software. Students will also be able to demonstrate digital literacy through basic study web publishing and design, spreadsheets and database software.

Computing for College & Careers 1a: Introduction (Buzz)

1 semester, .5 credit

Technology has made an impact on nearly all facets of our lives, and it will continue to make an impact on yours as you make your way into college and career! In this course, you are going to pull back the veil on what goes into some of the technology we use every day. You will investigate computer hardware and software and learn what goes into building a computer while exploring programs and applications, you'll study the history of the internet and how to use its capabilities even more effectively, and you'll also dive deep into email and some of today's most powerful processing tools. Get ready to really know the technology you have at your fingertips so you can continue to make it work for you!

Computing for College & Careers 1b: Refining Your Interests (Buzz)

1 semester, .5 credit

You have looked at the building blocks of some technologies you use on a daily basis, and now it's time to dig even deeper to see how it can help determine your future! In this course, you'll analyze modern websites, learn design elements and principles, and even create your very own website. You'll learn to write algorithms, use common web languages, and explore some of the basics of AI all while becoming a good digital citizen. Lastly, you'll explore various careers in computing, learn about industry certifications, and see how a resume and portfolio can help you. Let's look to the future!

Concepts of Engineering and Technology (Buzz)

1 semester, .5 credit

Learn how the momentum of science is continually propelling engineers in new directions towards a future full of insight and opportunity. Explore the different branches of engineering and how problem-solving, sketching, collaboration, and experimentation can change the very fiber of our human lives. By examining astounding engineering feats and complex ongoing issues, you'll begin to question whether the word impossible really exists

Cybersecurity 1a: Foundations (Buzz)

1 semester, .5 credit

We depend more on the technologies we interact with every day; and we put more and more of our personal data out there online. Can all of that data really be kept "secret"? Learn about the various parts of your computer, how they work together, and how you can manipulate them to keep your data safe. Dive into the tools, technologies, and methods that will help protect you from an attack and discover the many opportunities in the rapidly growing field of cybersecurity.

Cybersecurity 1b: Defense Against Threats (Buzz)

1 semester, .5 credit

Unmask the cybersecurity threats around you by understanding hackers and identifying weaknesses in your online behavior. Learn to avoid the various types of cyberattacks, including those to your social media accounts, and to predict the potential legal consequences of sharing or accessing information that you do not have rights to. Dig into these crimes in depth by taking a look at cyber forensics and other cybersecurity careers. Cybersecurity will play an increasingly larger role in our personal and professional lives in the years to come.

Digital Media Fundamentals 1a: Introduction (Buzz)

1 semester, .5 credit

Discover your talent for building digital media applications using text, graphics, animations, sounds, videos, and more! Learn about the elements that make impressive media, such as typography, color

theory, design, and manipulation. Explore careers to apply your digital media skills and find your place in this fast-paced and exciting field!

Digital Media Fundamentals 1b: Producing for the Web (Buzz)

1 semester, .5 credit

Let's polish your digital media skills and help you learn all about web design. Incorporate your creative ideas into websites and discover the basics of marketing to understand how your work can be used effectively. You'll also explore the world of podcasts and audio editing to construct a solid foundation from which you can pursue a career in this exciting field.

Foundations of Game Design 1a: Introduction (Buzz)

1 semester, .5 credit

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!

Foundations of Game Design 1b: Storytelling, Mechanics, and Production (Buzz)

1 semester, .5 credit

Now that you have the basics of game design down, let's 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. The content of this course also applies to certification exams.

Game Design 2a: Build a World (Buzz)

1 semester, .5 credit

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 conceptualization and the design process, you'll develop your game's story elements, narrative, plot, characters, and assets. Using game design software, you'll bring your game to life by applying lighting, audio, visual effects, player choice options, AI, and consider the type of controls to use for your game. Build a world players can get immersed in.

Game Design 2b: Launch a Game (Buzz)

1 semester, .5 credit

You've already done the groundwork, and now it's time to level up and launch! In Game Design 2b, you'll take your runner game to new heights and enter the land of fire and ice using the cool tools that Unity has to offer! Get ready to build atmospheric landscapes, mountain runs, stair builds, and implement obstacles to keep your relic safe! Then, your real-world game begins: test and evaluate

your game and prepare for a market launch! All of the moving parts of the game development process come together in this course, so you can unleash your game into the world!

Game Design for Chromebooks 1a: Introduction (Buzz)

1 semester, .5 credit

Are you ready to take your passion for game design and turn it into a real-life prototype? In this course, you'll learn the fundamentals of game design including scripting in JavaScript, game mechanics, audio editing, storytelling, and game world development. And the best part? You'll apply these skills to build an arcade-style galactic adventure game using PlayCanvas! Let's get ready to blast off into the world of game design!

Game Design for Chromebooks 1b: From Prototype to Product (Buzz)

1 semester, .5 credit

Get ready to add some super charged rocket fuel to your galactic adventure game prototype because it's time for it to blast into the stratosphere as a full-blown product! In this course, you'll build on your prototype focusing on techniques to add difficulty but also increase the fun. "Fun" may sound like an elusive quality to achieve but understanding your audience's needs and potential immersive elements as well as the alignment and flow of your game progression will put you well on the way to creating a hit! Get ready to launch your game for all to see and collect the interstellar acclaim that follows!

Information Technology Applications (Apex)

1 semester, .5 credit

Information Technology Applications prepares students to work in the field of Information Technology. Students will be able to demonstrate digital literacy through basic study of computer hardware, operating systems, networking, the Internet, web publishing, spreadsheets and database software. Through a series of hand-on activities, students will learn what to expect in the field of Information Technology and begin exploring career options in the field.

Learning in a Digital World: Digital Citizenship (Buzz)

1 semester, .5 credit

We use technology to communicate with friends and family, find never-ending entertainment options and do our schoolwork. Discover what it means to be a responsible digital citizen, expand your digital literacy, and become a successful online student. Consider the best ways to find, create, and share information, learn to maximize information and communication technologies, and explore digital content creation, from emails and blogs to social media, videos, and podcasts.

Access: Office Fundamentals Series (Buzz)

1 semester, .5 credit

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. The content of this course will be applicable to the Microsoft Office Suite certification exam.

Excel: Office Fundamentals Series (Buzz)

1 semester, .5 credit

Discover the real-world uses of Microsoft Excel and its impact on 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.

Outlook: Office Fundamentals Series (Buzz)

1 semester, .5 credit

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.

PowerPoint: Office Fundamentals Series (Buzz)

1 semester, .5 credit

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.

Word: Office Fundamentals Series (Buzz)

1 semester, .5 credit

Learn to effectively and efficiently use one of the most common tools of business, school, and personal correspondence! Discover how to format and style documents using fonts, colors and editing tools, create tables, use bullets and numbering, and insert images. Skills you learn in this course can be applied immediately and prepares you to take the MOS Word certification exam, and content is applicable to the Microsoft Office Suite certification exam.

Principles of Information Technology (Apex)

2 semesters, 1.0 credit

Principles of Information Technology prepares students to succeed in the workplace. Students begin by establishing an awareness of the roles essential to an organization's success, and then work to develop an understanding of professional communications and leadership skills. In doing so, students

gain proficiency with word processing, email, and presentation management software. Students will also be able to demonstrate digital literacy through basic study of computer hardware, operating systems, networking, the Internet, web publishing, spreadsheets and database software.

Principles of Information Technology 1a: Introduction (Buzz)

1 semester, .5 credit

Ready to develop your understanding and proficiency in computers? Explore a range of concepts to gain the foundational knowledge you'll need to start exploring careers in this field to find out which ones suit your interests and abilities. Learn about computer hardware and maintenance to data management and storage options to network systems, administration, and troubleshooting. Then dive into word processing, spreadsheets, and databases to cement your knowledge of information technology!

Principles of Information Technology 1b: Working with Computers (Buzz)

1 semester, .5 credit

Take the IT knowledge you have to a more advanced level. Starting with an overview of programming, algorithms, and compilers, you'll then learn the basics of web page design and creating graphics. 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!

Touch Systems Data Entry: Keyboard Like a Pro (Buzz)

1 semester, .5 credit

Watching a keyboard wizard work their magic over the keys is mesmerizing, and now, you can learn the magic of their movements! In this course, you'll build a solid foundation of typing skills, develop good habits and techniques, and build confidence as you become a typing wiz. You'll also learn proper finger placement, correct posture to improve speed and accuracy, and explore future careers where typists thrive. Get ready to become a typing magician today!

Intro to Networking 1a: Introduction (Buzz)

1 semester, .5 credit

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!

Intro to Networking 1b: Network Oversight (Buzz)

1 semester, .5 credit

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

Network Security Fundamentals 1a: Introduction (Buzz)

1 semester, .5 credit

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

Network Security Fundamentals 1b: Forensics and Permissions (Buzz)

1 semester, .5 credit

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

Operational Cybersecurity 1a: Introduction (Buzz)

1 semester, .5 credit

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

Operational Cybersecurity 1b: Security and Planning in the Workplace (Buzz)

1 semester, .5 credit

More and more, companies are under attack by malicious cyber attackers compromising the security of sensitive employee, customer, and societal data. In this course, you will dive into data security in

the workplace and will learn ways to mitigate cyber threats that lurk in dark corners. You will step into the familiar shoes of CISO, this time at a startup company, making decisions about access and authentication protocols, security planning, and expanding the business in a safe way. Lastly, you will explore real-world security breaches, how they were solved, and step-by-step instructions to setup robust security policies. Let's continue forging your cybersecurity stronghold against cyber attackers and keep sensitive data secure.

Introduction to Programming 1a: Introduction (Buzz)

1 semester, .5 credit

Have you ever wondered how your favorite software is created? 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 on the world. Launch yourself into the endless possibilities a career as a programmer can bring you!

Introduction to Programming 1b: Problem Solving Through Programming (Buzz)

1 semester, .5 credit

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

Programming 2a: Procedural Programming (Buzz)

1 semester, .5 credit

Congratulations; you're speaking a different language! A programming language that is. But do you want to learn more? Discover the most popular programming languages and what they have to offer the software world. Explore data, algorithms, and objectives and how they are essential to language 'speak'. Learn the software development life cycle and how it can be implemented so you can create projects, such as a prototype for an app you'll code and a working to-do list website.

Programming 2b: Creative Programming (Buzz)

1 semester, .5 credit

Get ready to take your programming abilities to the next level in Programming 2b! You'll start by developing a simple web page using HTML, CSS, and JavaScript and then you'll practice your Python skills, making your own photo editor and sound player! Using API, you'll practice adding a weather widget to a website and you'll ensure page safety using encryption techniques through Python. You'll test, you'll inspect, you'll collaborate, and for your finale, you'll craft a graphical user interface for an app using Python's Tkinter! Let's get ready to program!

Robotics 1a: Introduction (Buzz)

1 semester, .5 credit

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.

Robotics 1b: Intelligent Robots (Buzz)

1 semester, .5 credit

The robots have invaded... and they're here to make our lives easier. You've learned about the basics of robotics and STEM careers, but now we're going to learn about manipulating the physical world to create desired effects. In this course, you'll learn to manipulate electrical signals to create logic and memory, how to quantify the physical world through variables, and how to have an impact through tools. You'll discover how to choose the best tools and materials, how to create AI, and how to take an idea from initial planning to a completed project. Let's continue the pursuit of a career in robotics so the friendly invasion can thrive!

Robotics 2a: Design a Robot (Buzz)

1 semester, .5 credit

From outer space to the oceans and everywhere in between, robots are doing everything from solving complex problems to simply making daily life easier. But, there has to be a beautiful mind behind the machine, and this is where you come in! In this course, you will identify a problem and using the skills you've learned, you will apply the principles of engineering and robotics to design an innovative robot to solve the problem. Robotics engineers are problem solvers—are you ready to step up?

Robotics 2b: Build Your Robot (Buzz)

1 semester, .5 credit

You have learned how to think like a robotics engineer, and now, it's time to design and build like one to breathe life into your machine. In this course, you'll explore how to add more complexity to your creations to make them more efficient, capable, and better able to handle advanced tasks. You will also learn how models and simulations can enhance robotic development and construction. After a real-world safety review, a deeper dive into advanced applications and systems, and improving your prototype, you'll finalize and launch your robot. Are you ready to continue improving the world with your machine? Let's automate!

Social Media: Our Connected World (Buzz)

1 semester, .5 credit

Do you have any social media accounts? Learn the ins and outs of such social media platforms as Facebook, Twitter, Pinterest, Google+, and more and how to use them for your benefit personally, academically, and, eventually, professionally. If you thought social media platforms were just a place to keep track of friends and share personal photos, this course will show you how to use these resources in much more powerful ways.

Web Development 1a: Introduction (Buzz)

1 semester, .5 credit

How many times per day do you access the internet, including social media? The web is an important part of our daily lives, so it's no surprise that web development is one of the hottest career fields. Start to explore professional web development, including how to create content for the web. You'll learn about topics such as servers, file organization, HTML, CSS, Javascript, and the development stack that will let you build any website you can dream up.

Web Development 1b: Planning and Designing (Buzz)

1 semester, .5 credit

Websites need to be functional, but they need to look great while doing the job! Now that you've learned how to create web content, you'll learn how to apply design principles, like color combinations and font choices, to achieve the greatest impact. You'll also learn the behind-the-scenes tasks of organizing your files, ensuring website accessibility, following intellectual property regulations, and performing site backup and maintenance. Let's unravel the web development process!

Web Development 2a: Sketching and Scripting (Buzz)

1 semester, .5 credit

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!

Web Development 2b: Website Goes Live (Buzz)

1 semester, .5 credit

You've done a ton of work on your website already, and now, it's time to put the finishing touches on it and make it work for you! In this course, you'll explore topics and hone skills to help you perfect your portfolio so it's ready to share with future employers. You'll discover common coding errors and security threats, website accessibility and reliability, and become more fluent and efficient in JavaScript. You'll also learn how to make on-the-job choices and adjustments and refine communication with your clients. In the end, you'll turn your website into a presentation to share with friends and family so you can showcase your achievements.

HEALTH AND FITNESS

Allied Health Assistant 1a: Introduction (Buzz)

1 semester, .5 credit

Are you passionate about helping people and making a difference in their lives? If you're planning on going into the healthcare field, then this course is for you! Explore your options by learning how to properly care for your patients and provide for the administrative needs of healthcare. Learn to prepare exam rooms, schedule, bill, and document all while solidifying your professional skills in communication, privacy, safety, and ethics.

Allied Health Assistant 1b: Skills and Specialties (Buzz)

1 semester, .5 credit

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.

EKG Technician 1a: Introduction (Buzz)

1 semester, .5 credit

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

EKG Technician 1b: Analysis and Response (Buzz)

1 semester, .5 credit

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 an EKG Technician!

Emergency Medical Responder 1a: Introduction (Buzz)

1 semester, .5 credit

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.

Emergency Medical Responder 1b: Prepared for Action (Buzz)

1 semester, .5 credit

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

Health (Apex)

1 semester, .5 credit

Health is a valuable, skills-based health education course designed for general education in grades 9 through 12. Health helps students develop knowledge, attitudes, and essential skills in a variety of health-related subjects, including mental and emotional health, social health, nutrition, physical fitness, substance use and abuse, disease prevention and treatment, and injury prevention and safety. Through use of accessible information and project-based learning, students apply the skills they need to stay healthy. These skills include identifying and accessing valid health information, practicing self-management, identifying internal and external influences, communicating effectively, making healthy decisions, setting goals, and advocating. Students who complete Health build the skills they need to protect, enhance, and promote their own health and the health of others.

Health 1: Life Management Skills (Buzz)

1 semester, .5 credit

What does it mean to be healthy? In the simplest terms, it means taking care of our body and mind. Explore the connections between your physical, mental, and social health. Learn how to promote better health by decreasing stress and finding a fuller vision for your life through lifestyle choices, interactions with others, healthcare, and making sensible dietary choices. Build your plan to ensure your overall health, happiness, and well-being!

Health Opportunities through Physical Education (HOPE) (Apex)

2 semesters, 1.0 credit

Health Opportunities through Physical Education (HOPE) combines instruction in health and physical education in a full-year, integrated course. It focuses on developing skills, habits and attitudes to maintain a healthy lifestyle and applying lessons learned to physical fitness. Through active participation and real-world simulations, the course aims to demonstrate firsthand the value of conscientious lifestyle management. HOPE lays a foundation for making healthy decisions by building seven skills: accessing valid health information; analyzing internal and external influences; self-management; interpersonal communication; decision-making; goal setting; and advocacy. Students apply these skills to a variety of topics throughout the course, including mental and emotional health, social health, nutrition, physical fitness, substance use and abuse, disease prevention and treatment, and injury prevention and safety. Successful completion of this course will require parent/legal guardian sign-off on student-selected physical activities on weekly participation reports to verify the student is meeting his or her requirements and responsibilities.

Health and Physical Education 1a: Introduction (Buzz)

1 semester, .5 credit

Your health is more than skin deep- or should we say muscle deep? There are many factors that influence your fitness from biological predispositions to the foods you eat, the sleep you get, your psychology, and more! This course will go beyond the superficial of fitness and dig into the science behind it. You will explore the basics of how to assess your baseline fitness, design and implement a fitness plan, fuel your body to achieve your fitness goals, and stay safe while improving your health. Physical fitness is a journey, not a destination: start your expedition now!

Health and Physical Education 1b: Invest in your Health (Buzz)

1 semester, .5 credit

You've already HIIT the mat and warmed up your understanding of health and fitness, but now we're going to stretch you're understanding and feed your healthy habits. In this course, you will learn about the four domains of health- physical, mental, emotional, social- and their interconnection, how to set goals for healthy living, and how relationships and choices can impact your health. You'll also explore different entities and influences and their role in your daily health as well as how to build healthy communities to help you thrive. Let's continue building the foundation for well-rounded, healthy living so you can flourish: mind, body, and spirit!

Health Science: The Whole Individual (Buzz)

1 semester, .5 credit

Finding effective solutions to different health problems 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? You'll be introduced to disciplines such 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 of human life in our future.

Health Science 2: Patient Care and Medical Services (Buzz)

1 semester, .5 credit

Explore the roles health care professionals play in treating patients. Promoting wellness, communicating with patients, and understanding safety in the workplace are just a few of the essential skills you will learn, all the while becoming familiar with some of the more prominent areas in the field, such as emergency care, nursing, infection control, and pediatrics. You'll learn about some of the inherent challenges faced by this age-old profession and how you can become a significant part of the solution.

Health Science Foundations 1a: Introduction (Buzz)

1 semester, .5 credit

Health science careers are not only in high demand, but they offer a diverse range of careers for all types of people interested in helping others. Acquire foundational knowledge required to pursue a

career in the healthcare industry, and the education, training, and credentials needed to attain them. Learn basic medical terminology, principles of anatomy and physiology, and legal and ethical responsibilities. Explore communication, teamwork, and leadership techniques – providing a solid basis for those wanting to advance through the health sciences.

Health Science Foundations 1b: Professional Responsibilities (Buzz)

1 semester, .5 credit

Making sure that you, your patients, and your colleagues stay safe, you'll begin analyzing your responsibilities for ensuring patient and personal safety with special attention paid to emergency procedures. Examine infection control, first-aid, CPR, and measuring a patient's vitals. Learn about numerical data, such as systems of measurement, medical math, and reading and interpreting charts. And examine effective teamwork and leadership characteristics while building your employment skills.

Health Science: Public Health (Buzz)

1 semester, .5 credit

What is public health? Who decides which diseases get funding and which do not? What are the reasons for health inequality? 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 of worldwide current and future technologies and the ethics and governance of health on a global scale, and discover unique career opportunities you can pursue to make a difference.

Health Science: Nursing (Buzz)

1 semester, .5 credit

The demand for nurses has never been higher! Learn what it takes to become a nurse, pursue a career, and understand the practice of nursing and the healthcare system. With a strong focus on patient care, you'll explore safety, communication and ethics, relationship building, and how to develop wellness strategies for your patients. From emergency to rehabilitative care, to advances and challenges in the healthcare industry, discover how you can launch a fulfilling career providing care to others.

Health Science Theory 1a: Introduction (Buzz)

1 semester, .5 credit

From doctors and nurses to x-ray technicians and medical aides, the field of healthcare offers numerous roles that will allow you to make a difference in the lives of patients. In this course, you'll learn all about the foundations of healthcare from how the industry works around the world, to the different professions that fall within the field. You'll also learn medical terminology and calculations, the difference between diagnostic and therapeutic careers, and the legal and ethical considerations. Let's start building the foundation of a career in healthcare today!

Health Science Theory 1b: Health Science Skills (Buzz)

1 semester, .5 credit

You've built a solid foundation of knowledge of the healthcare field, and now it's time to probe deeper into the healthcare profession. In this course, you'll review key aspects of the broad category of safety as well as learn how to assess and treat patients for an array of injuries. You'll learn how to identify emergencies, trauma and complex care, and the basics of CPR and life support. Lastly, you'll explore the importance of collaborating with other team members to manage and resolve conflicts. Let's suit up to learn how you can positively impact patients in the field of healthcare.

Medical Assistant 1a: Introduction (Buzz)

1 semester, .5 credit

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

Medical Assistant 1b: Medical Assisting in Action (Buzz)

1 semester, .5 credit

It's time to grab your latex gloves and snap them back into place so you can get a deeper look into the world of medical assisting! In this course, you'll explore patient care and procedures, testing and care coordination, pharmacology and safety, and reimbursement and the law. You'll also narrow your areas of interest so you can better determine what type of medical assisting may be best for you. Are you ready to continue on the road to medical assisting? Grab your lab coat and let's get going!

Medical Diagnostic Technology 1a: Introduction (Buzz)

1 semester, .5 credit

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

Medical Diagnostic Technology 1b: Exploring Systems and Procedures (Buzz)

1 semester, .5 credit

Our bodies are complex, and when we start feeling ill, a doctor or specialist must analyze and diagnose what could be wrong. Learn about different diagnostic technology, procedures, essential body systems, and fluids that need to be understood to make an accurate diagnosis of a disease, condition, or illness. This career field is flourishing, and now is the time to be part of it!

Medical Lab Assisting 1a: Introduction (Buzz)

1 semester, .5 credit

Getting to the root of medical issues and uncovering ailments is the core of the medical field. Are you drawn to the idea of being part of a team who helps identify diseases and health-related issues? Then the role of a medical lab assistant may be for you! In this course, you will learn what it takes to become a skilled medical lab assistant including understanding medical ethics, communicating with patients, performing blood draws and managing specimens, lab safety, and potential career paths! Grab your lab coat and latex gloves, and let's draw some new knowledge to help others!

Medical Lab Assisting 1b: Clinical Lab Safety and Procedures (Buzz)

1 semester, .5 credit

You've pulled back the patient curtain and have learned the basics of the world of a medical assistant. Now, it's time to dig deeper and peer into the anatomy of the role so you can determine which type of medical assistant best suits you. In this course, you will learn more about patient care and procedures, testing and care coordination, pharmacology and safety, reimbursement, and the law. You will also narrow your own areas of interest, research organizations to shadow, and ultimately prepare for certification. Throw that curtain wide open, and let's continue the pursuit of a medical assistant!

Medical Office Administration 1a: Introduction (Buzz)

1 semester, .5 credit

Caring for a patient takes more than a medical degree: it takes a team! In this course, you will build your knowledge of medical terminology, medical office processes, the technology that keeps an office humming, and the laws that keep it operating ethically. You'll also explore different office roles all while building the beginnings of a portfolio. Let's march through the waiting room and throw open the doors to a career as a Medical Office Admin today!

Medical Office Administration 1b: Vital to the Front Office (Buzz)

1 semester, .5 credit

You have learned some of the basics of what it takes to become a successful medical office administrator, and now, it's time to grow your understanding even further! In this course, you will complete a deeper dive about the variety of roles available in the medical office along with the skills needed to not only run the front of the office but to excel in the position as well. Finally, you'll focus on you and how to apply all that you've learned to get your foot in the door to begin a career in medical office administration. Let's get started!

Medical Terminology 1a: Introduction (Buzz)

1 semester, .5 credit

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

Medical Terminology 1b: Discovering Word Foundations (Buzz)

1 semester, .5 credit

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.

Nutrition and Wellness (Buzz)

1 semester, .5 credit

To keep our body and our mind running like finely tuned machines, we need to use the right fuel. For humans, that means nourishing our bodies with the right foods. In this course, you'll explore how food affects essential aspects of your life from your weight to how you age to how well you think. You'll also examine how outside influences- family, peers, and the media- can affect your diet and your perception of food and how to set yourself up for nutritional success. Are you interested in a career in holistic wellness? Start your health journey now with Nutrition and Wellness.

Nursing Assistant 1a: Introduction (Buzz)

1 semester, .5 credit

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

Nursing Assistant 1b: Patient Care (Buzz)

1 semester, .5 credit

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.

Physical Education (Apex)

1 semester, .5 credit

Physical Education combines the best of online instruction with actual student participation in weekly cardiovascular, aerobic, and muscle toning activities. The course promotes a keen understanding of

the value of physical fitness and aims to motivate students to participate in physical activities throughout their lives. Specific areas of study include: Cardiovascular exercise and care, safe exercising, building muscle strength and endurance, injury prevention, fitness skills and FITT benchmarks, goal setting, nutrition and diet (vitamins and minerals, food labels, evaluation product claims), and stress management. The course requires routine participation in adult-supervised physical activities. Successful completion of this course will require parent/legal guardian sign-off on student-selected physical activities and on weekly participation reports to verify the student is meeting his or her requirements and responsibilities.

Personal Fitness (Buzz)

1 semester, .5 credit

What does being fit really mean? It's not only about losing weight. Being fit is about living life to the fullest and making the most of what you have yourself! You'll learn about body functions, safety, diet, goals, and strategies for longevity. Explore the world of healthy living and see how real fitness can be achieved through intention, effort, and just the right amount of knowledge.

Pharmacology 1a: Introduction (Buzz)

1 semester, .5 credit

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.

Pharmacology 1b: Analysis and Effects (Buzz)

1 semester, .5 credit

When implemented with care, medicine can cure illnesses and even save lives, but when distributed incorrectly, therapeutics can cause great harm. In this course, you will delve deeper into the study of medicine and treatments available to patients. You will learn about available medications for specific diseases, the way therapeutics work in the body, different drug classifications, the law behind administering drugs, and what a Pharmacy career can look like. Are you ready to continue injecting your brain with essential knowledge for a career in the medical field? Let's continue your journey of care.

Sports Medicine 1a: Introduction (Buzz)

1 semester, .5 credit

What do you think of when you hear the phrase "sports medicine professional"? Believe it or not, the term encompasses a much larger range of career options than jobs typically associated with this field. Explore some of the most popular career pathways, day-to-day responsibilities, emergency care for athletes, and legal obligations. Discover what nutrition, healthy lifestyle, and fitness truly mean, and dive into anatomy, human biomechanics, and exercise modalities. Learn how to get started in this exciting field.

Sports Medicine 1b: Injury Prevention (Buzz)

1 semester, .5 credit

You've warmed up those muscles and stretched your understanding of basic human biomechanics, but now it's time to power forward your learning even further! In Sports Medicine 1b: Injury Prevention, you'll expand your understanding of the human body to provide a greater context for injury in a variety of scenarios. You'll learn how to evaluate an injury, onsite tests to perform, and when to refer a patient to a medical professional. You'll also explore the anatomy of specific body areas to better understand injuries that may occur as well as ways to prevent injury. Are you ready to keep athletes functioning at peak levels? Grab your sports tape and let's hit the field of sports medicine!

Sports Medicine 2a: Working with Clients (Buzz)

1 semester, .5 credit

You've learned the basics about how the body works and how to attend to athletes' injuries, but now, it's time to get personal! Time to personalize and plan for clients, that is! In this course, you will learn to develop dietary and exercise regimes for clients based on their needs and goals. You'll even have an opportunity to turn plans into action by designing workouts for your own example gym. Let's hit the ground running and continue building towards a career as a trainer!

Sports Medicine 2b: Personalizing Your Practice (Buzz)

1 semester, .5 credit

"Five, four, three, two, one—rest." You've learned what it looks like to work one-on-one with clients as a sports medicine professional, and now it's time to focus on the group. In this course, you will be introduced to teaching group exercise classes and providing rehabilitation services to clients facing injury and disease. You will also learn about laws that govern the work of sports medicine professionals, business concerns like insurance and staffing, and what you need to consider if you start your own fitness facility. It looks like it's time for the next set! Let's get started!

BUSINESS ADMINISTRATION AND MANAGEMENT

Advertising and Sales Promotion (Buzz)

1 semester, .5 credit

Great marketing strategies can be powerful. Every year companies spend approximately \$200 billion promoting their products and services – and that's just in the United States alone! Explore how marketing campaigns, ads, and commercials are brought to life and meet some of the creative folks who produce them. Learn about different marketing career opportunities and discover ways to be part of this exciting, fast-paced industry.

Business Applications (Apex)

1 semester, .5 credit

Business Applications prepares students to succeed in the workplace. Students begin by establishing an awareness of the roles essential to an organization's success, and then work to develop an understanding of professional communications and leadership skills. In doing so, students gain proficiency with word processing, email, and presentation management software.

Business Communications 1a: Introduction (Buzz)

1 semester, .5 credit

No matter what career you're planning to pursue, excellent professional communication will be key to your success. Upgrade your abilities in speaking, listening, writing, using and reading body language, and communicating in teams and groups. Discover how to plan, create, and deliver business presentations and communicate through graphics. In no time, you'll be communicating with confidence, stand out from your peers, and impress your employer.

Business Communications 1b: Listen, Speak, and Write in the Workplace (Buzz)

1 semester, .5 credit

You've learned your audience, found your voice, and can read the body's unspoken words. Now, it's time to limber up those fingers and learn the P's and Q's of communicating in a business setting. In this course, you're going to take the basic writing skills you've developed and revise them so you can take new approaches to planning, building, and distributing documents for a business audience. You'll continue to explore the essentials of writing while drafting new understandings of business documents, and then you'll learn to apply your business communication skills to job applications, interviews, and presentations. No matter your career of choice, learning to effectively communicate will help your professionalism grow leaps and bounds. Let's get writing!

Business Information Management 1a: Introduction (Buzz)

1 semester, .5 credit

Do you dream of owning your own business someday, or working for a company in a leadership position? Wherever your path may lead you, having the essential knowledge of business types, requirements to start a business, understanding of finances, business law, marketing, sales, customer service, and more, will ensure you're on the path to success. Let's explore your passion for business in this course!

Business Information Management 1b: Data Essentials (Buzz)

1 semester, .5 credit

Now that you have the basics of business down from the previous course, it's time to become better acquainted with the application of information management in business. 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 also explored so that you become better prepared for jobs in this field.

Business Law 1a: Introduction (Buzz)

1 semester, .5 credit

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

Business Law 1b: Legal Aspects of Business (Buzz)

1 semester, .5 credit

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

Business Ownership 1a: Introduction (Buzz)

1 semester, .5 credit

Do you dream of a future where you can have creative freedom, working in an industry you love, where you can get up every morning excited about the day will bring? In this course, you'll learn the skills you'll need in order to take your dream and transform it into a successful business. You'll explore foundations like generating ideas to qualifying opportunities, analyzing the market, and identifying skills for successful deployment. You'll learn to keep your business rolling and growing through effective workplace leadership and training while incorporating technological innovations to keep your business competitive. Are you ready to turn your dreams into reality? Let's get goaling!

Business Ownership 1b: Reach for the Stars (Buzz)

1 semester, .5 credit

You've defined your business and made a plan to launch your vision, and now, it's time to turn that business into a well-oiled machine! In this course, you'll familiarize yourself with tried-and-true strategies for success! You'll distinguish market segments, develop the appropriate market mix, brand your business, create a top-notch customer service environment, and calculate financial factors for the crucial first year- and every year after! Owning a booming business doesn't happen by accident. Let's learn what it takes and execute on the essentials to turn your business vision into a reputable reality!

Entrepreneurship 1a: Introduction (Buzz)

1 semester, .5 credit

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

Entrepreneurship 1b: Make your Idea a Reality (Buzz)

1 semester, .5 credit

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!

Human Resource Management 1a: Introduction (Buzz)

1 semester, .5 credit

Are you ready to step into a critical leadership role that oversees the development of every successful business' most valuable resource? In this course, you will wear the shoes of a Human Resource Management (HRM) professional and will learn how to build and manage a team to help a company reach its goals. You will also explore and perform some of the key responsibilities of a HRM professional: research, interviewing, reporting, recruiting, hiring, assessing employees, and more! Are you ready to help develop invaluable human resources that are the heart of a company and help your company thrive? Learn how to create a winning culture through human resources!

Human Resource Management 1b: People & Performance (Buzz)

1 semester, .5 credit

You've learned the basics about the critical role HRM plays in business' success, and now it's time to dive deeper into the role's main responsibilities from a practical perspective. In this course, you'll step into the shoes of an HRM professional and explore key duties such as onboarding, training, and development, retaining and terminating employees, safety and risk managements, company communication, and more! You'll also learn about different career opportunities in the field of HRM, develop collateral based on real-world scenarios involving HRM tasks and responsibilities, and the role of HRM in a global environment. Let's get started!

Human Resources Principles (Apex)

2 semesters, 1.0 credit

Human Resources Principles examines the main functions of human resources management, including planning, recruitment, selection, training, development, compensation, and evaluation. In so doing, the course provides students with the tools to hire, manage, and fire employees. Students will also explore the unique role of human resources in the larger organization.

Introduction to Business and Technology (Apex)

2 semesters, 1.0 credit

Introduction to Business and Technology provides the foundational knowledge and skills students need for careers in business and technology. Throughout the course, students gain a knowledge of business principles and communication skills, an understanding of the impact of financial and marketing decisions, and proficiency in the technologies required by business. Students will also learn the essentials of working in a business environment, managing a business, and owning a business.

International Business: Global Commerce in the 21st Century (Buzz)

1 semester, .5 credit

With the evolution of technology, our world is more connected than ever before, and the business community today is larger than ever. Gain the knowledge, skills, and appreciation to live and work in the global marketplace. You'll 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 global business in the 21st century.

Law & Order: Introduction to Legal Studies (Buzz)

1 semester, .5 credit

Imagine if there were no laws and people could do anything they wanted. Every society needs some form of regulation to ensure peace in our daily lives and in the broader areas of business, family disputes, traffic violations, and the protection of children. Explore the importance of laws and how their application affects us as individuals and communities. Through understanding the court system and how laws are actually enacted, you'll learn to appreciate the larger legal process and how it safeguards us all.

Legal Environment of Business (Apex)

2 semesters, 1.0 credit

Legal Environment of Business examines the role of the law on all aspects of business ownership and management. Throughout the course, students focus on legal ethics, court procedures, torts, contracts, consumer law, property law, employment law, environmental law, and international law. Students also explore the impact of laws, regulations, and judicial decisions on society at large. This course allows students to explore careers in business while learning skills applicable to any professional setting. Through a series of hands-on activities, students will prepare legal documents, create a compliance plan, and research consumer protection issues. Regular engagement in active learning ensures students can continually refine the skills necessary to prepare them for work. In addition, students will evaluate the qualifications required for specific careers so they can identify opportunities of interest to them.

Management 1a: Introduction (Buzz)

1 semester, .5 credit

From the shift managers at small businesses to the CEOs of large companies, effective management is key to any organization's success. Explore foundational management concepts such as leadership, managing teams, entrepreneurship, global business, finance, and technology and innovation. Engage in a capstone that pulls all of the concepts you've learned together, allowing you to see how management ideas can be applied to a business case study. Get started with learning the fundamentals of successful management.

Management 1b: Insight and Oversight (Buzz)

1 semester, .5 credit

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

Marketing Foundations 1a: Introduction (Buzz)

1 semester, .5 credit

Explore the fast-paced and exciting world of marketing! Learn about the role of marketing in business in addition to the basics of business management, customer service, and economics. Examine how to identify target markets, perform market research, and develop successful marketing strategies. Discover the legal and ethical considerations of business and marketing, along with the impact of government on business.

Marketing Foundations 1b: Building Your Base (Buzz)

1 semester, .5 credit

Dig deeper into the world of marketing and what it means for business success! Become a marketing mix pro by studying understanding branding, advertising, promotion strategies, and more, through real-world applications and practices. And explore the secrets of advertising and promotion. Learn about effective sales techniques and discover employment opportunities to pursue a career in this exciting field!

Marketing 2a: Global Business and Trade (Buzz)

1 semester, .5 credit

Can you think of a brand that first launched in the U.S. and then became popular in other countries? Facebook™ did this very thing! Without a solid understanding of business and international marketing strategy, it becomes nearly impossible to be successful and stand out from the crowd. Discover how business and marketing works around the world. You'll learn about topics such as regulations, market research, marketing plans, global trends, buying and selling internationally, and more.

Marketing 2b: Developing a Sales Team (Buzz)

1 semester, .5 credit

How does a business make money? If you said sales, then you're right! 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.

Office Administration 1a: Introduction (Buzz)

1 semester, .5 credit

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

Office Administration 1b: Running the Office (Buzz)

1 semester, .5 credit

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!

Principles of Business, Marketing, and Finance (Apex)

2 semesters, 1.0 credit

Principles of Business, Marketing, and Finance provides the knowledge and skills students need for careers in business and marketing. Students begin exploring roles and functions that business and marketing play in a global society, develop an understanding of the marketplace, as well as understanding product placement and promotion.

Students analyze the impact of government, legal systems, and organized labor on business; develop an understanding of business communications and management; and explore legal, ethical, and financial issues in business and marketing. Furthermore, students delve into basic economic concepts including personal finance, economic systems, cost-profit relationships, and economic indicators and trends.

Principles of Business, Marketing, Finance 1a: Introduction (Buzz)

1 semester, .5 credit

Discover the fundamental knowledge that will help you pursue a career in business, as well as always generating interest and buzz around the products and services offered. Explore different types of businesses and ownership forms, the impact of governments on business, and the marketing of goods and services. Learn about globalization, free trade, and various economic systems, as well as the impact of technology on business, business ethics, and social responsibility.

Principles of Business, Marketing, Finance 1b: Targeting Your Business Insight (Buzz)

1 semester, .5 credit

Take your knowledge of business basics, finance, and marketing to the next level. Learn how to create a marketing strategy that promotes and attracts customers in order to sell a product or service. Explore important basics of business finance, including accounting, budgeting, and investing. And learn what careers are available in business and the important employability skills you'll need to ace the interview and land the job!

Professional Sales and Promotion: 1a: Introduction (Buzz)

1 semester, .5 credit

“Sell me this pen.” It seems like an easy request, but the art of selling takes nuance, expertise, and an ability to navigate the complexities of client needs. In this course, you'll learn about the bigger picture of the sales cycle. You'll examine the role of today's sales professional along with the skills and qualities needed for success, and you'll learn the ins and outs of the sales process and how it is driven by recognizing and responding to customer needs. Before long, you'll be a part of the well-oiled engine that drives the entire commercial economy. But first, can you sell me this pen?

Professional Sales and Promotion: 1b: Secrets of Sales Success (Buzz)

1 semester, .5 credit

They say money makes the world go round, but sales is what keeps the world spinning. In this course, you'll explore the power of promotion and how to rise to the ranks of an elite sales and promotions rep. You'll dive into what it takes to be a stellar seller, how salespeople work together in teams to meet goals, and how the savviest sales managers employ proven sales methods mixed with technology, tools, and psychological insights to build and operate an efficient sales team. Are you ready to keep the world in motion? Let's uncover the secrets of sales success.

Sports and Entertainment Marketing 1a: Introduction (Buzz)

1 semester, .5 credit

The bright lights. The roaring crowds. The chants and cheers and applause. If you are drawn to the electricity of large events and the challenge of making events successful, a career in sports and entertainment marketing may be for you! In this course, you will trace the development of these industries, dissect their dual nature, and discover what it takes to pitch, promote, and deliver on these services. You'll also explore the necessary steps to chart your own career path from among the

professional roles that these industries need to operate. Let's get off the sidelines and hop into the primetime of the sporting and entertainment worlds!

Sports and Entertainment Marketing 1b: Promoting the Main Event (Buzz)

1 semester, .5 credit

Get ready to drop your spectator status for an all-access pass to enter the exciting world of sports and entertainment marketing! In this course, you'll secure a solid foundation of effective marketing by studying the different roles and levels and how they relate to one another. Then, you'll explore the modern marketing methods professionals use to take an event concept and make it successful. Finally, you'll get up to speed on industry terminology and touchpoints with the help of HR. Get ready to flash that pass and gain all-star access to the stage and arena!

COLLEGE AND TECHNICAL EDUCATION

Accounting 1 (Apex)

2 semesters, 1.0 credit

Accounting I examines how to make decisions about planning, organizing, and allocating resources using accounting procedures. Throughout the course, students focus on double-entry accounting; methods and principles of recording business transactions; the preparation of various documents used in recording revenues, expenses, assets, and liabilities; and the preparation of financial statements.

Accounting 2 (Apex)

2 semesters, 1.0 credit

Prerequisite: Accounting 1

Accounting II builds on the foundation acquired in Accounting I, allowing students to extend their skills and knowledge in the subject. The course focuses on various managerial, financial, and operational accounting activities that require the formulation, interpretation, and communication of financial information for use in management decision making. Students will use equations, graphical representations, accounting tools, spreadsheet software, and accounting systems in real-world situations to maintain, monitor, control, and plan the use of financial resources.

Applied Engineering 1a: Introduction (Buzz)

1 semester, .5 credit

Discover how technology has changed the world around us by pursuing technological solutions to everyday problems. While using scientific and engineering methods, learn how electricity, electronic

systems, magnets, and circuits work. Understand the design process and bring your ideas to life. Explore how engineering advances your ideas and the world!

Applied Engineering 1b: Solving Problems Together (Buzz)

1 semester, .5 credit

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.

Careers in Criminal Justice 1a: Introduction (Buzz)

1 semester, .5 credit

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

Careers in Criminal Justice 1b: Finding your Specialty (Buzz)

1 semester, .5 credit

Have you ever thought about a career as a police officer, an FBI or DEA agent, or any occupation that seeks to pursue justice for all? Careers in criminal justice can be found at local, county, state, and federal levels, and even in the private sector. Explore some of the various occupations in this field, while simultaneously learning how they interact with each other and other first responders. Discover various interviewing techniques to uncover the truth. Understand the importance of making ethical decisions, and how you need to keep your sense of right and wrong in check to be successful in this field.

College and Career Preparation 1 (Apex)

1 semester, .5 credit

High school students have many questions about the college application process, what it takes to be a successful college student, and how to begin thinking about their careers.

In College and Career Preparation I, students obtain a deeper understanding of what it means to be ready for college. Students are informed about the importance of high school performance in college admissions and how to prepare for college testing. They know the types of schools and degrees they may choose to pursue after high school and gain wide exposure to the financial resources available that make college attainable.

Career readiness is also a focus. Students connect the link between interests, college majors, and future careers by analyzing career clusters. Students come away from this course understanding how

smart preparation and skill development in high school can lead into expansive career opportunities after they have completed their education and are ready for the working world.

College and Career Preparation 2 (Apex)

1 semester, .5 credit

High school students have many questions about the college application process, what it takes to be a successful college student, and how to begin thinking about their careers.

College and Career Preparation II builds on the lessons and skills in College and Career Preparation I. The course provides a step-by-step guide to choosing a college. It walks students through the process of filling out an application, including opportunities to practice, and takes an in-depth look at the various college-admission tests and assessments, as well financial aid options.

College and Career Preparation II also instructs students in interviewing techniques and provides career guidance. Students explore valuable opportunities such as job shadowing and internships when preparing for a career.

Cosmetology: Cutting Edge Styles (Buzz)

1 semester, .5 credit

We all want to look our best, but did you know there is actually a science behind cutting your hair and painting your nails? Just like all careers, cosmetology requires certain skills and characteristics. You will learn about various beauty regimes related to hair, nails, skin, and spa treatments, and discover how to create your own business model quickly and efficiently while still looking fabulous, of course!

Cosmetology 2: The Business of Skin and Nail Care (Buzz)

1 semester, .5 credit

This vibrant industry needs skilled and personable professionals well-versed in the latest trends and technological advances. Explore what the day-to-day life of a cosmetologist is like and discover that cosmetology is much more than knowing and applying techniques. Learn skin care and facials, how to give manicures and pedicures, how to apply artificial nails, and gain an understanding of different hair removal techniques. Discover the next steps towards launching a rewarding and creative career in cosmetology.

Cosmetology 3a: Introduction to Hair Skills (Buzz)

1 semester, .5 credit

Cosmetology is a specialized field with a high skill set. Examine the complexities of cosmetology by learning to perform a hair, scalp, and skin analysis. You'll learn about hair types, face shapes, and color theory. And, to effectively prepare you for a career in cosmetology, color techniques with an emphasis on salon and chemical safety is examined.

Cosmetology 3b: Waving, Coloring and Advancing Hair Skills (Buzz)

1 semester, .5 credit

Let's delve into the realm of hairstyling and cutting techniques! Explore a variety of wigs, extensions, and hairpieces, while also developing knowledge about shampooing and conditioning. Discover manual curling and the use of chemicals to curl and straighten hair, as well as safety when working with chemicals. Expect to be well versed with a plethora of hair skills upon completion.

Computing for College and Careers 1a: Introduction (Buzz)

1 semester, .5 credit

Technology has made an impact on nearly all facets of our lives, and it will continue to make an impact on yours as you make your way into college and career! In this course, you are going to pull back the veil on what goes into some of the technology we use every day. You will investigate computer hardware and software and learn what goes into building a computer while exploring programs and applications, you'll study the history of the internet and how to use its capabilities even more effectively, and you'll also dive deep into email and some of today's most powerful processing tools. Get ready to really know the technology you have at your fingertips so you can continue to make it work for you!

Criminology: Inside the Criminal Mind (Buzz)

1 semester, .5 credit

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

Culinary Arts 1a: Introduction (Buzz)

1 semester, .5 credit

Thinking of a career in the food service industry or looking to develop your culinary skills? Explore basic cooking and knife skills while preparing you for entry into the culinary world. Discover the history of food culture, food service, and global cuisines while learning about food science principles and preservation. Prepare for your future by building the professional, communication, leadership, and teamwork skills that are crucial to a career in the culinary arts.

Culinary Arts 1b: Finding your Palate (Buzz)

1 semester, .5 credit

Did you know that baking is considered a science? Discover how to elevate your culinary skills through the creation of stocks, soups, sauces, and learn baking techniques. Examine sustainable food practices and the benefits of nutrition while maintaining taste, plating, and presentation to truly wow your guests. Explore careers in the culinary arts for ways to channel your newfound passion!

Culinary Arts 2: Baking, Pastry and More (Buzz)

1 semester, .5 credit

Whether you aspire to be a world-class chef or just want to learn the skills needed to create your own dishes, you'll build a strong foundation and grow your knowledge of this exciting industry. Explore baking and desserts, learn how to prepare proteins, and study nutrition and safety in the kitchen. 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.

Biotechnician 1a: Introduction (Buzz)

1 semester, .5 credit

There are so many mysteries that need unraveling in the world today that can help us grow better crops, cure diseases, combat pollution, solve crimes, and so much more. If you love the idea of solving problems to make the world a better place, a career as a biotechnician may be for you. In this course, you'll learn the basics of lab safety, how to perform tasks crucial to experimentation, biological basics, and about the exciting careers available in the field of biotechnology. Not all heroes wear capes. Some wear lab coats. Grab yours and let's get started!

Biotechnician 1b: Advancements in Biotechnology (Buzz)

1 semester, .5 credit

You've scratched the genetic surface of a biotechnician's world, but now, we're going to dive deeper into mankind's future. In this course, you'll explore essential topics that structure the reality of biotechnology such as the role genetics and epigenetics play in influencing human traits, the creation and purpose of recombinant DNA, and how the human immune response can be tweaked to fight disease. You'll also explore GMO's and biofuels and how an idea becomes reality in the biotech industry. Let's continue learning about how you can change the world in a role as a biotechnician.

Biotechnician 2a: Moving into the Lab (Buzz)

1 semester, .5 credit

Are you ready to have an authentic, positive impact on human life? In this course, you will dive even deeper into the role of a biological technician to understand how genetic engineering works. You will explore managing a biotech laboratory, Microscopy and Spectroscopy, mammalian cell culture, what the day-to-day duties of a biotechnician involve, and more. You will also explore experimental design as it relates to genetic engineering to plan your own experiments. Get ready to break down the building blocks of the human design!

Dental Assistant 1a: Introduction (Buzz)

1 semester, .5 credit

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.

Dental Assistant 1b: Principles of Clinical Dentistry (Buzz)

1 semester, .5 credit

You have scraped the surface of how rewarding assistant dentistry can be, and now it's time to drill deeper into the inner-workings of the role. In Dental Assistant 1b: Principles of Clinical Dentistry, you'll learn about the daily duties of a dental assistant including the structure of an office visit, managing patient records, and administrative aspects of the role. You'll also explore how patient health can impact oral health, how to prepare for and perform a patient visit, and how to succeed in a team environment. Let's continue polishing those skills to become a dental assistant today!

Dental Assistant 2a: Infection Prevention & Pharmacology

1 semester, .5 credit

Your passion for dentistry has strong roots, and now it's time to drill even deeper into the pulp of the science. In this course, you will continue to explore the field of dentistry through a work-based learning experience while studying how to maintain a safe environment for patients. You'll cover prevention, recognition, and management of common dental office emergencies and how to manage patient pain and medications. You'll learn about microbiology and the modes of disease related to oral care as well as explore specialties in the dental field important responsibilities and guidelines for providers. Let's continue sharpening your cusp of knowledge as a dental assistant!

Early Childhood Education 1a: Introduction (Buzz)

1 semester, .5 credit

Are you curious to see what it takes to educate and nurture early learners? Use your curiosity to explore the fundamentals of childcare, like nutrition and safety, but also the complex relationships caregivers have with parents and their children. Examine the various life stages of child development and the best educational practices to enrich their minds while thinking about a possible future as a childcare provider!

Early Childhood Education 1b: Developing Early Learners (Buzz)

1 semester, .5 credit

Discover the joys of providing exceptional childcare and helping to develop future generations. Learn the importance of play and use it to build engaging educational activities that build literacy and math skills through each stage of childhood and special need. Use this knowledge to develop your professional skills well suited to a career in childcare.

Fashion Design (Buzz)

1 semester, .5 credit

Are you a fashion trend follower? Are you drawn to how designers have pulled together fabrics and colors to create memorable pieces? Do you dream of designing your own line of clothing or accessories? Learn what it takes to get started in the fashion industry, from the careers available to new technology and trends reshaping the industry every day. Start creating!

Human Resource Principles (Apex)

2 semesters, 1.0 credit

Human Resources Principles examines the main functions of human resources management, including planning, recruitment, selection, training, development, compensation, and evaluation. In so doing, the course provides students with the tools to hire, manage, and fire employees. Students will also explore the unique role of human resources in the larger organization. This course allows students to explore careers in business while learning skills applicable to any professional setting. Through a series of hands-on activities, students will create a recruiting plan, develop a strategy to promote a positive organizational culture, and analyze the impact of globalization on the human resources. Regular engagement in active learning ensures students can continually refine the skills necessary to prepare them for work. In addition, students will evaluate the qualifications required for specific careers so they can identify opportunities of interest to them. Human Resources Principles is a full-year intermediate or capstone Career and Technical Education course applicable to programs of study in the Business, Management and Administration career cluster. This course is built to state and national standards. Students who successfully complete the course will be prepared to pursue certifications such as Associate Professional in Human Resources, Certified Administrative Manager, or Certified Associate in Project Management (CAPM)®.

High School Career Discovery (Buzz)

1 semester, .5 credit

Your future career is likely something you've dreamed about since you were a child. Now it's time to turn that dream into a reality! In this course, you will explore your own strengths, interests, and preferences and use that information to uncover the best career for you! You will explore 17 career clusters, learn about the skills needed to work in different industries, and choose a path to pursue. You'll build a plan to get you from high school to your first day on the job and craft a strong portfolio to land your perfect job. You've dreamed about your future career. Now it's time to create a plan and turn that dream into a goal!

Hospitality and Tourism: Traveling the Globe (Buzz)

1 semester, .5 credit

Where is your dream travel destination? Now imagine working there! You'll be introduced 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 leisure and travel, spotting trends, and planning events are just a few of the key aspects you will explore within this exciting field.

Hospitality and Tourism 2a: Hotel and Restaurant Management (Buzz)

1 semester, .5 credit

Are you a people person? Then hospitality may be the field for you! 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. Discover trends and technology that makes each industry exciting and innovative. Explore a variety of interesting job options from Front Desk and Concierge services to Maître d and food service.

Hospitality and Tourism 2b: Hotel and Restaurant Management (Buzz)

1 semester, .5 credit

Embark on your journey to becoming a manager in the hotel or restaurant industry by gaining knowledge and developing a variety of skills. Learn about different management styles, laws, and regulations that govern hotels and restaurants as well as how to develop job descriptions and business plans. You'll also explore how to create menus, advertise vacancies, perform interviews, and understand the financials of the hotel or restaurant.

Hotel Management 1a: Introduction (Buzz)

1 semester, .5 credit

Creating unforgettable memories through luxury and meticulous care is a service that the best hotels can offer. In this course, you will learn about the business of hospitality and the different types of hotel ownership and programs. You'll explore the essential functions of a hotel from bookings, management systems, front and back of house operations, technologies, and more. You'll also discover what it takes to keep guests happy and run a sustainable program. Let's create some management magic!

Human and Social Services 1: Introduction (Buzz)

1 semester, .5 credit

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. 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.

Interior Design (Buzz)

1 semester, .5 credit

Do you have a flair for designing and decorating? If so, then let's learn how to turn your interests and skills into a career. Explore color, texture, trends, and styles over time, how homes are built, and

“green” options for homes and businesses. Interior designers do it all—from planning the color scheme to choosing furniture and light fixtures—with the end goal of creating a space where people can live or work comfortably, safely, and happily.

Introduction to Forestry and Natural Resources (Buzz)

1 semester, .5 credit

Thriving forests are an essential part of the health of the planet, from our wildlife’s ecosystem to providing humans with clean air to lumber and paper products. But forests cannot protect themselves and depend greatly on humans for conservation. Learn more about this meaningful relationship and how environmental policy, land use, water resources, and wildlife management all factor into current forestry issues. Forestry offers diverse professional opportunities, and for those concerned about the environment, it is a great choice.

Introduction to Renewable Technologies (Buzz)

1 semester, .5 credit

Renewable Technologies are becoming increasingly important as concerns about climate change, the use of fossil fuels, and population growth become foremost in the public eye. So, how do we address the world’s growing concerns about energy sources? Uncover the development of new energy technologies and explore how recent approaches to renewable technologies unlock the solution needed for a safer, cleaner, and more enduring world.

Law and Order: Introduction to Legal Studies (Buzz)

1 semester, .5 credit

Imagine if there were no laws and people could do anything they wanted. Every society needs some form of regulation to ensure peace in our daily lives and in the broader areas of business, family disputes, traffic violations, and the protection of children. Explore the importance of laws and how their application affects us as individuals and communities. Through understanding the court system and how laws are actually enacted, you’ll learn to appreciate the larger legal process and how it safeguards us all.

Legal Admin Specialist 1a: Introduction (Buzz)

1 semester, .5 credit

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

Legal Admin Specialist 1b: Taking Care of Legal Office (Buzz)

1 semester, .5 credit

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.

Life Skills: Navigating Adulthood (Buzz)

1 semester, .5 credit

What do you want out of life? How do you achieve your dreams for the future? These can be difficult questions to answer, but they don't have to be with the right tools. Learn more about yourself and prepare for the future through goal setting, decision making, surviving college and career, and how to become a valuable contributing member of society. It's your life; make it count!

Introduction to Manufacturing: Product Design and Innovation (Buzz)

1 semester .5 credit

Have you ever wondered how products make it to store shelves? Goods we purchase must go through a manufacturing process before they can be marketed and sold. Learn about different types of manufacturing systems as well as career opportunities, including engineers, technicians, and supervisors. As a culminating project, you will plan your own manufacturing process and create an entirely original product! See how exciting, creative, and practical this industry can be.

Introduction to Military Careers (Buzz)

1 semester, .5 credit

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. 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.

Management 1a: Introduction (Buzz)

1 semester, .5 credit

From the shift managers at small businesses to the CEOs of large companies, effective management is key to any organization's success. Explore foundational management concepts such as leadership, managing teams, entrepreneurship, global business, finance, and technology and innovation. Engage in a capstone that pulls all of the concepts you've learned together, allowing you to see how management ideas can be applied to a business case study. Get started with learning the fundamentals of successful management.

Management 1b: Insight & Oversight (Buzz)

1 semester, .5 credit

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.

National Security: Diplomacy, Intelligence and Defense (Buzz)

1 semester, .5 credit

Do you know what it takes to keep an entire nation safe? It not only requires knowledge of how to handle disasters, but it also demands a cool head and tremendous leadership abilities. Learn about the critical elements of the job, such as evaluating satellite information, analyzing training procedures, assessing military engagement, preparing intelligence reports, coordinating information with other security agencies, and applying appropriate actions to various threats. Discover the requirements of our nation's most demanding career.

Peer Counseling 1 (Buzz)

1 semester, .5 credit

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

Principles of Agriculture, Food and Natural Resources (Buzz)

1 semester, .5 credit

Did you know that the world's population could be 11 billion people by 2050? With a growing population, how do we keep everyone fed? This is where the importance of agriculture, food, and natural resources comes in! Gain a stronger sense of how we can maximize the foods and natural resources the earth provides. Learn more about agriculture's history, animal husbandry, plant science, and natural resources, and you'll be better prepared for your part in sustaining the world.

Principles of Health Science (Apex)

2 semesters, 1.0 credit

Principles of Health Science provides knowledge and skills students need for careers in health care. Students explore the services, structure, and professions of the health care system and get guidance on choosing a specific career path in health services, including career paths in emergency medicine, nutrition, and alternative medicine. Students focus on day-to-day skills and expectations for health professionals, which include promoting wellness, maintaining a safe environment, creating medical records, and practicing good communication, collaboration, and leadership. In addition, students will

expand their understanding of health and safety systems, how to address emergency situations, and deal with infection control issues. Students will also explore topics in medical science, terminology, procedures, and regulations - including an overview of physiology and medical measurements. Using real-life scenarios and application-driven activities, students learn the responsibilities and challenges of being health care professionals and deepen their knowledge of various career options. In addition to building their understanding of technical concepts and skills, students evaluate the qualifications required for specific careers and develop personal career plans to pursue work in the health care industry and extend their knowledge of oral and written communication in health science. Principles of Health Science is a full-year Career and Technical Education course for programs of study in health sciences. This course is built to state and national standards.

Principles of Public Service: To Serve and Protect (Buzz)

1 semester, .5 credit

Public service is a field that focuses on building a safe and healthy world, and you'll explore the many different career choices that are imperative to our comfort and success as a society. The protection of society is not only one of our greatest challenges, but it also provides ways for people to work together to ensure safety and provide indispensable services. If you have ever contemplated being one of these real-life heroes, now is the time to learn more!

Real World Parenting: Improving Family Life (Buzz)

1 semester, .5 credit

Do you love children? Maybe you plan on babysitting or having your own someday. Learn how being a parent is much more than merely feeding, bathing, and protecting a child. Creating a positive environment, nurturing, fostering education, and serving as a role model are critical aspects. Learn how to be a positive force in the development of your future children, as well as others around you.

Restaurant Management (Buzz)

1 semester, .5 credit

Have you ever dreamed of running your own restaurant? Explore exactly what's needed to run a successful restaurant, including ordering supplies, hiring quality workers, maintaining inventory, and managing a large staff. Understanding such concepts as food safety, hygiene, customer relations, marketing, and using a point-of-sale system are crucial to being an effective restaurateur. Whether you are hoping to operate a casual sit-down eatery, oversee a fine dining establishment, or buy a food franchise, this course is the perfect first step.

Workplace and Internship Readiness: Preparing for Work and Life (Buzz)

1 semester, .5 credit

Starting your first "real" job can be intimidating. But when you know what to expect and learn how to be successful, you'll feel confident about the hiring process and prepared to put yourself out there! 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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