



**FOUNTAIN HILLS**  
UNIFIED SCHOOL DISTRICT

*"We Achieve and Celebrate Educational Excellence!"*

Summer School Course Description Guide  
2020-2021 School Year

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## English/Language Arts

**English 9 (1A/1B)** English 1 launches a four-year journey during which students will confidently master grammar, develop advanced communication skills, and learn to analyze and appreciate challenging literature. The course begins with grammar fundamentals including sentence structure, parts of speech, and phrases and clauses. Students' vocabulary will expand through a study of technology, literary terms, and words with multiple meanings. Culturally diverse texts will emphasize literary elements and techniques while an overview of short and long prose will delve into excerpts from classic literature and Shakespeare. This will expand the students' literary world. Writing skills will advance as students learn and apply the steps for creating a research paper. The course includes coverage of effective speaking and listening.

**English 10 (2A/2B)** English 2 begins with a major focus on grammar to help students become stronger writers. Students then analyze literary genre elements in various excerpts of classical stories. A novel study and play accompany the course to study for analysis, as well. Students compare informational texts and have various writing projects. For example, they write an analytical essay on a short story and a persuasive essay that they also present as a speech. Their research paper is about a topic they choose in which they construct a multi-media presentation to accompany it. Additionally, this course includes work-related documents with students constructing their own resumés and letters.

**English 11 (3A/3B)** In English 3, students focus on the development of American Literature and compare it with ideas and forms of literature around the world. Students review the basics of the language arts, then scaffold with practices of increasing complexity to meet the required grade-level objectives of analytical thinking. Engaging in a step-by-step process, students learn to write complex analyses and argument papers. Students also learn principles in research, teamwork, discussion, and presentation skills. A play and novel highlights literary devices with supporting literature. Additionally, students explore college and career planning as well as tips for dealing with information in technology today.

**English 12 (4A/4B)** This course challenges students with rigorous and rewarding assignments. Students will explore the development of English language and survey famous British fiction authors. They will examine the effect of time upon literary works, as well as make advanced studies of drama, plot structures, devices, and motivations. Students will probe nonfiction texts as well as read and analyze British literature. Conducting research, organizing ideas, and preparing presentations, students will create an argumentative persuasive text, a story with conflict and resolution, a poem, a script, and an analytical essay. In addition, students will learn to write for real-life situations such as e-mail and professional resumés. Students will apply critical thinking skills to gain perspective on the media and analyze speeches.

## Mathematics

**Algebra I (1A/1B)** Students' math competence will grow as they learn to solve expressions, functions, and equations by using formulas, ratios, proportions, percentages, and rates. Other concepts include exponents and scientific notation, polynomials and trinomials, multi-step inequalities, slope formulas, and systems of equations and inequalities. Students will

solve quadratic functions through various methods including graphing, factoring, square roots, completing the square, and the quadratic equation. Using tables and graphs, students will analyze and organize data and statistics. Students will learn to work and solve exponential, radical, and rational functions and equations.

**Algebra II (2A/2B)** Algebra 2 will consolidate and build on students' knowledge acquired in Algebra 1. After a review of Algebra 1 concepts, students will take an in-depth look at linear equations, inequalities, and functions. Students will be introduced to matrices, apply Cramer's Rule in solving linear systems, and solve graphs and equations of conic sections. Using graphs, factoring, and the quadratic formula, students will solve quadratic equations, inequalities, and functions. Students will investigate how to graph, factor, invert, and solve polynomials, as well as solve rational expressions, radical expressions, fractional exponents, and rational inequalities. Students will examine the properties, transformations, and applications of exponential and logarithmic functions. Applying probability and data analysis, students will determine probability and model data.

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

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

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

characteristics and applications of conic sections and vectors. The course concludes with an investigation into parametric equations and polar equations.

**Financial Literacy (A)** This course provides students with the essential understanding about managing their money. The focus is on sources of personal income, saving, and spending patterns. Students learn such things as how to budget, how to make large purchases, how to invest, and how to minimize taxes.

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

## History/Social Studies

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

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

**Government (A/B)** U.S. Government commences its examination of the grand American experiment in democracy with a general overview of the purpose, types, origin, and formation of governments. Students will explore how colonial self-rule, English law, and weaknesses in the Articles of Confederation influenced the formation of the U.S. Constitution. Students will investigate the principles of the Constitution and the federal system. The purpose, powers, and relationships among the American institutions of self-government—Congress, Presidency, and the Judiciary—will be examined as well as federal, state, and local governments. Students will become aware of their civic

responsibility to vote and participate in the governmental process as they gain understanding of the functions and organization of political parties, the evolution of the two-party system, and the influence of public opinion and political ideology on government decisions.

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

## Science

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

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

**Earth Science (A/B)** In Earth Science, students will learn about different Earth systems, how they interact with each other, and how humans impact these systems. Students will look at the scientific basis for land, water, atmosphere, and biosphere systems; discuss several

environmental problems; analyze possible solutions; delve into laws already in existence; and discuss any future laws. Critical thinking will be required, as well as the ability to argue points from both sides of an issue. Throughout the course, there are lab investigations, including video labs, to reinforce science concepts and skills.

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

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

## Electives

**Animation (A)** Channel your student's creativity into animation and watch them bring their imagination to life! Students will learn about the origins, history, and variations of this unique art form. Students will practice the 12 principles of animation and explore how the laws of motion and proportions influence their art. By creating animation sequences of their own, students will learn various properties to make their art come alive!

Building on the prior prerequisite course, students will immerse themselves in the intricacies of animation and elevate their skills. Diving into modern animation and modeling techniques, students will learn about the use of perspective, methods of movement, and cohesive narratives to fully implement the animation process from start to finish. Finally, students will create a portfolio and explore the various careers in the animation industry.

**Art History (A/B)** The purpose of this course is to enable students to develop knowledge of the history and theory of art and the relationship between artist, artwork, and society. Students will research and critique periods, styles, and works of art from early civilizations through the Middle Ages. Emphasis will be placed on the role of works of art based on subject matter, theme, concept, symbolism, or allegory/metaphor.

**Astronomy (A/B)** This course will introduce students to the study of astronomy, including its history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and the methods used by astronomers to learn more about the universe.

Additional topics include the origin of the universe, the Milky Way, and other galaxies and stars.

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

**Coding (A/B)** Have you ever wanted to create your own web page or wondered how your favorite websites were built? Maybe you want to know more about how computers and technology are affecting the world around us. In Coding 1a: Introduction to Programming, you will 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. You will also discover how to create and build your own website using HTML and CSS and learn basic and complex commands and sequences as you become familiar with programming languages like JavaScript and Python Programming. This course also covers data collection methods, access rights, protocols, and security.

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

**Game Design (A/B)** 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! \*Additional fees apply

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

**Human Development and Family Studies (A)** Students in the Human Development and Family Studies course explore the basic information about human development, parenting roles and strategies, and functioning effectively within the family in today's changing and

complex society. This course helps students to develop competencies related genetics, family types, and effective communication. They investigate the ways in which humans develop over their lifespan, human relationships, childcare, and child abuse. Students also learn the importance of creating a nurturing and caring home environment.

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

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

[Engineering](#) (A) What if you could do the impossible? Engineers understand a lot of things, but the word *impossible* definitely isn't one of them. Through Concepts of Engineering and Technology, you'll learn how the momentum of science is continually propelling engineers in new directions towards a future full of insight and opportunity. This course explores the different branches of engineering and how problem-solving, sketching, collaboration, and experimentation can change the very fiber of our human lives. This ever-increasing knowledge can also lead to serious ethical dilemmas and the need to discuss where the boundaries of science lie (or even if there should be boundaries). By examining astounding engineering feats and complex ongoing issues, you, too, will begin to question whether the word *impossible* really exists.

[Law](#) (A) Imagine if there were no laws and people could do anything they wanted. It's safe to say the world would be a pretty chaotic place! 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. Laws are essential to preserving our way of life and must be established and upheld in everyone's best interest. In Law and Order: Introduction to Legal Studies, you'll delve deeper into the importance of laws and consider how their application affects us as individuals and communities. Through understanding the court system and how laws are actually enacted, you will learn to appreciate the larger legal process and how it safeguards us all.

[Media Writing](#) (A) Media Writing is designed for students who are interested in careers in broadcast journalism, communications, or media. In this course, students explore the basics of media writing in addition to careers in print, online, and broadcast media. Students investigate the numerous styles of writing for a number of applications, including newspapers, magazines, audio broadcasts, video broadcasts, and the Internet. In addition, students practice researching, locating, and using sources that are reliable and valid.

**Music Appreciation (A/B)** Have you ever heard a piece of music that made you want to get up and dance? Cry your heart out? Sing at the top of your lungs? Whether pop, classical, or anything in between, music provides a powerful way for people to celebrate their humanity and connect with something larger than themselves. Music Appreciation: The Enjoyment of Listening not only will provide a historical perspective on music from the Middle Ages to the 21st century, but it will also teach you the essentials of how to listen and really hear (with a knowledgeable ear) the different music that's all around you. Learning how to truly appreciate sound and melody is the best way to ensure a continued love of this delightful art form.

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

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

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

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

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

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

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

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

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

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

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

**World Literature (A)** In World Literature, students explore a wide variety of literary styles, artists, and mediums from cultures and societies around the globe. Students analyze

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

## World Languages

**American Sign Language (A/B)** Did you know that American Sign Language (ASL) is the third most commonly used language in North America? American Sign Language 1a: Introduction will introduce you to vocabulary and simple sentences, so that you can start communicating right away. Importantly, you will explore Deaf culture – social beliefs, traditions, history, values and communities influenced by deafness.

**French (A/B)** French I is an introductory course designed for students who have little or no previous knowledge of the French language and culture. This course will allow students to acquire the tools necessary for communication and comprehension of the French language. Students explore the global francophone community, and they compare these different cultures to each other and to their own. This course primes students' fluency through various types of communications.

**German (A/B)** In German 1, students are introduced to the basic and fundamental skills necessary for expressing common ideas in the German language. They learn to state daily activities and how to have an introductory conversation. These concepts build in theme and scope, allowing students to explore topics including daily activities, travel, needs, desires, and preferences in typical and increasingly complex situations. The course provides a realistic context in which students can practice their newly acquired skills. German 1 also provides a considerably thorough study of grammatical skills, ranging from the most basic sentences to engaging and creative structures dealing with more interesting situations.

**Mandarin Chinese (A/B)** Mandarin Chinese 1 is an introductory course to Modern Standard Chinese, which includes the spoken language, Mandarin, and the written language of simplified characters. Students recognize and apply vocabulary in Pinyin and Chinese characters in the context of common themes. In addition to learning the language, students get a glimpse of Chinese culture, history, tradition, and society.

**Spanish 1, 2, 3, 4 (A/B)**