

## 24/25 FALL Elective Courses

### MATH ELECTIVES

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

**Financial Literacy:** This is an introductory course on being financially literate. Discusses budgeting, online banking, credit use and scoring, identity theft, stock market, IRAs, and more. This is a great course for those looking to learn more about being fiscally responsible with their money.

**Math Concepts A/B:** This is a great course to better prepare high school students for a productive math experience and to better understand topics in Algebra and Geometry.

**Personal Finance A/B -** The Personal Finance course introduces students to strategies and practices that empower them to manage their money wisely. Students first perform a self-analysis to discover their money personality. A study of good consumer habits includes a comparison of renting and buying. Students learn the steps to building wealth, including building an emergency fund, evaluating and embracing risk when investing, and using credit sparingly and wisely. A survey of consumer rights accompanies the steps recommended to protect one's personal information. Students survey types of insurance and evaluate the role of each in limiting personal financial risk. The course concludes with an entire Unit dedicated to evaluating higher education opportunities, costs, and funding.

### HEALTH/CHARACTER EDUCATION ELECTIVES

**Applications & Careers in Robotics:** It seems like many school robotics courses focus on simply coding a robot to move. This course, in contrast, teaches students what a robot is and how it relates to other key technologies such as artificial intelligence and machine learning. The course examines 10 applications of robots and how they will change and impact various aspects of our lives and the economy. Will robots simply

steal our jobs, or will they create new opportunities and even free humans to use creativity and curiosity more fully? Students will grapple with this and many other questions as they explore this vital, future focused subject.

**Career and Financial Management:** The Career and Financial Management course prepares students to make decisions regarding their life, career, and financial future. Throughout the course, they will investigate a variety of career pathways and determine how to make decisions that will affect their employment opportunities. Students will identify career readiness skills, and how education opens up opportunities for advancement and growth. Through lessons on leadership, communication, and technology, students will better understand the modern workplace. The second half of the course focuses on money management, and includes critical topics such as budgeting, saving, loans and credit, identity protection, investing, insurance, and taxes.

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

**Career Exploration in Cosmetology:** Students are introduced to the cosmetology field in this unit, including the specialization within the profession and current global trends in the industry. They will also learn the required training, licensing, and certifications for the various specializations and where to acquire them, as well as the kinds of careers and employment opportunities available in the field.

**Career Exploration in Dentistry A/B (P-CTE & Electives)** - This course introduces students to the exciting and varied career opportunities in the dentistry profession, from dental assistants all the way up through oral surgeons. Students will review the history of dentistry globally and in the U.S., and will learn key dental terminology. The course will introduce the roles and tasks done as well as the skills and education required of nearly every member of the dental staff. Students will gain an understanding of what it takes to perform each position, and how they work together.

**Career Exploration in Healthcare A/B:** This course introduces students to the exciting and varied career opportunities in the health care industry that will be in demand in their future! The course will introduce the roles and tasks, identify education and skills needed, identify responsibilities of roles which support or supervise their role, analyze legal and ethical responsibilities, limitations, and implications for each of these professions. Get ready. Get set. Learn about the Future of Health Care Careers!

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

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

**Construction Fundamentals and Careers:** This course introduces students to some of the foundational elements of home construction and then does a deep dive into careers, technology, and the future of home construction. It also addresses some of the academic proficiencies that different careers in the field of home construction will have to have. Later in the course, specific careers, career outlooks, and specialized education and training requirements will be covered. Students will discover the varied roles within the field as well as what it takes to own a construction company. Finally, the course delves into green construction and where the future of construction is headed.

**Health:** In Health, students discover how to make conscientious decisions when attempting to improve their overall health and wellness. From healthy lifestyles, diets, and exercise to responsibilities within individual families and larger communities, topics within the health discipline are pertinent and applicable to all students. Throughout the course, students review concepts that promote safe, healthy, and active lifestyles.

**High School Career Discovery:** 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!

**Military Careers:** You've probably seen an old movie about a hotshot naval aviator, or perhaps a more recent film about the daring actions of Special Forces operatives. But do you really know what careers the military can offer you? Introduction to Military Careers will provide the answers. The military is far more diverse and offers many more career opportunities and tracks than most people imagine. In Introduction to Military Careers, you'll learn not only about the four branches of the military (and the Coast Guard) but also about the types of jobs you might pursue in each branch. From aviation to medicine, law enforcement to dentistry, the military can be an outstanding place to pursue your dreams.

**Teaching as a Profession:** Teaching can be a highly rewarding profession. Throughout the course, students will explore career opportunities within the field of education. They will learn what it means to be a professional in the classroom, whether it be working alongside co-teachers or managing an inclusive and diverse group of students. Students will learn about the code of conduct expected of educational professionals. Students will explore the history and best practices in the teaching profession as well as professional development opportunities. They will discover what it means to emerge as leaders in the field.

## **SCIENCE ELECTIVES**

**Aeronautics and Space Travel A/B:** This course introduces students to the history and near future of space travel. Students will explore the possibilities of moon bases, Mars colonies, and visiting the outer planets in our solar system and their moons. Students will also discuss important ethical and legal issues around space exploration, such as asteroid mining and war in space. The course gives an expansive view of the technologies, science, and theories that will make far fetched dreams into realities during the student's lifetime.

**Agriscience:** In this course, students will examine the agriscience industry, starting from a global perspective all the way to specific details in topics like animal and plant science. The agriscience industry, which spans farming, livestock, food safety, natural resources, ag equipment technology, and many other subfields, is full of in-demand

careers. And solving the current and future challenges of agriscience will require the development and leadership of today's students.

**Anatomy and Physiology:** The Anatomy and Physiology course allows students to discover 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. Next, students are introduced to basic biochemistry and cellular processes, which includes a virtual tour of the cell. Students also investigate the structure, function, hierarchy, and diseases associated with each organ system. Completion of one full year of high school Biology is required in order to understand the numerous biological concepts presented in this course.

**Anthropology:** This course examines family and kinship, religion, economics, politics, survival of indigenous groups, and Western influences from an anthropological perspective to gain appreciation for cultural and ethnic diversity. Students gain an understanding of the differences and similarities, both biological and cultural, in human populations and recognize the characteristics that define their own culture while gaining an appreciation for the culture of others.

**Archaeology:** George Santayana once said, "Those who cannot remember the past are condemned to repeat it." The field of archaeology helps us to better understand the events and societies of the past that have helped to shape our modern world. This course focuses on the techniques, methods, and theories that guide the study of the past. Students will learn how archaeological research is conducted and interpreted, as well as how artifacts are located and preserved. Finally, students will learn about the relationship of material items to culture and what we can learn about past societies from these items.

**Astronomy A/B:** Beginning with a look at astronomy's history, students will recognize the contributions of Ptolemy, Copernicus, Galileo, and Newton to our understanding of the universe. The second unit investigates telescopes and detectors such as radio receivers. An examination of the characteristics and processes of the Sun will be followed by a look at the terrestrial planets: Mercury, Venus, and Mars. After studying the Earth-Moon system, students will explore facts about the minor planets, Jupiter, Saturn, and the outer planets. Moving beyond the solar system, students will learn the characteristics of stars, galaxies, and deep space objects. Students will better appreciate the night sky after learning the constellations and will ponder the origin and fate of the universe with an inquiry into impermanence, special and general relativity, and cosmology.

**Chemistry A/B:** Chemistry gives students a deeper understanding of the world around them as they investigate how chemistry is involved in everyday life. Students explore fundamental chemistry content and concepts, including the metric system, the periodic table, atomic structures, bonding, chemical reactions, and nuclear reactions. They apply their knowledge and science process skills through labs that use common, household objects in order to explore the practicality of chemistry. As a prerequisite to Chemistry, students must have completed Algebra I and must possess basic spreadsheet, word processing, and presentation software knowledge.

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

**Environmental Science:** Environmental Science introduces students to the scientific method, terrestrial and aquatic ecosystems, biomes of the world, tropic interactions, and nutrient and chemical cycles. Students analyze the human impact on the environment and ways to reduce negative consequences. Students investigate environmental issues first hand and use their discoveries to make environmental decisions for themselves.

**Forensic Science:** Students enrolled in Forensic Science will develop a better understanding of the reality of forensic science, which is often contradicted by the fictional forensic science portrayed in entertainment. Students begin by exploring the history and background of forensic science. They discover several forensic science disciplines, such as pathology, anthropology, toxicology, serology, entomology, and odontology. Students learn and use proper lab practices, which ensure the integrity of any collected organic and inorganic evidence. Students investigate chromatography, spectroscopy, and microscopy techniques. They also explore and survey the impact of DNA analysis and question document analysis on forensic science. This course teaches the proper handling of impression evidence, such as shoe print, foot, tire, lip print, firearm, and fingerprint impressions while students examine the analysis of trace evidence, including hair and glass. The course concludes with an exploration into the ways in which forensic science is interconnected with the legal system, as well as what the future holds for forensic science. It includes numerous hands-on labs, including measuring a hypothetical time of death, extracting their own DNA, and analyzing their own fingerprint impressions. Forensic Science is ideal for high school students who are interested in forensic science, biology, law, and/or criminalistics. Students must possess basic spreadsheet, word processing, and presentation software knowledge as a

prerequisite. Completion of one full year of high school Biology is required in order to evaluate the numerous biological concepts present in this course. In addition, students must be mature, independent learners and comfortable learning new technology.

**Great Minds in Science:** Is there life on other planets? What extremes can the human body endure? Can we solve the problem of global warming? Today, scientists, explorers, and writers are working to answer all of these questions. Like Edison, Einstein, Curie, and Newton, the scientists of today are asking questions and working on problems that may revolutionize our lives and world. This course focuses on 10 of today's greatest scientific minds. Each unit takes an in-depth look at one of these individuals, and shows how their ideas may help to shape tomorrow's world.

**Physics:** This captivating physics course offers a comprehensive exploration of the forces, energy, waves, electromagnetism, and engineering design that shape our physical world. Through engaging lessons and interactive activities, students will delve into Newton's laws, electromagnetic forces, energy transformation, wave properties, nuclear processes, stability, and the art of engineering design. They will gain a deep understanding of fundamental concepts, such as forces and motion, electric and magnetic fields, conservation of energy, reflection and refraction of light, and the principles of sustainability. With real-world applications and interactive experiences, students will develop critical thinking and problem-solving skills, preparing them to tackle complex challenges and empowering them to be curious, informed citizens of a technologically advanced world.

**Sports Medicine:** Sports Medicine provides students with basic knowledge of the history of sports medicine, the anatomy of the body, and the common injuries that occur in sports. In addition, the course discusses techniques used in sports medicine to train and strengthen the body, treatments for injury and disease, and proper nutrition for athletes. As prerequisites, students must possess basic word processing and presentation software skills. Completion of one full year of high school Biology is required in order to evaluate the numerous biological concepts present in this course.

**Veterinary Science:** 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!

## **FINE ARTS ELECTIVES**

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

**Digital Arts:** This course provides computer science students with an introduction to visualization graphics programming on personal computers. The course focuses on using a digital camera and practical application of digital imaging programs. Students learn how to place images in photos and how to mock up drawings of three-dimensional spaces.

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

**Studio Art** - In this hands-on class, we will be exploring different mediums and expanding each student's creativity by introducing new and exciting skills to help them create amazing works. We will be working primarily with acrylic painting, drawing, ceramics and watercolors. The students will have access to several mediums throughout the entire semester and will get to choose his or her own artistic path with help and guidance from the instructor. Projects will be graded on participation and simple criteria since the main focus of this class is exploration and empowerment.

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



students so that they can gain the inquiry and critical skills involved in clarifying theatrical perceptions and knowledge.

## **CTE ELECTIVES**

**Auto (Only offered on Fridays at Mountain Institute CTED) -** Gain higher levels of technical knowledge and skills to maintain, diagnose, and repair automobiles and light trucks. **(Sign up in March with Yavapai College for Fall Semester.)**

**Business Management A/B:** Business Management is an integral part of the Business, Marketing, and Finance Career and Technical Education clusters. Students will examine evolving views of management with an emphasis on leadership. Next, students will consider ethical case studies and analyze the strengths and weaknesses of various organizational structures. In units 4 through 6, students will analyze the decision-making process as it applies to management issues, such as quality control and improving communication. Beginning with unit 7, students will investigate employee compensation and legal matters concerning hiring and firing. The course concludes with a presentation of practical tools to build one's personal habits and to nurture team building.

**Cosmetology 2 - Nails and Skin Care:** 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:** 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:** 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.

**Certified Nursing Assistant (Only offered on Fridays at Mountain Institute CTED):** Gain academic and technical knowledge and skills, and learn industry standards and practices in the field of nursing. **(Sign up in March with Yavapai College for Fall Semester.)**

**Culinary Arts Program (Only offered on Fridays at Mountain Institute CTED):** In this program you'll learn culinary arts application and hospitality through the focus of American and International cuisine, using professional cooking and baking methods. **(Sign up in March with Yavapai College for Fall Semester.)**

**Early Childhood Education (P-CTE & Electives):** The Early Childhood Education course is designed to provide an overview of the expectations and roles of the early childhood educator. The course provides details about childhood development, health, nutrition, and guidance strategies to help students understand the exciting and unique opportunities that a career in early childhood education can offer. The course is intended to prepare students for challenges they may face, but to emphasize the rewards of being able to influence the life of a young child. The ability to offer support to children as they learn, and grow is a point that is highlighted throughout each lesson. (Year long class) \*\*Certification exam is an additional expense

**Fashion Design:** 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!

**Fire Science (Only offered on Fridays at Mountain Institute CTED) -** Our Fire Service Program provides students with hands on training in fire prevention and fire protection systems. **(Sign up in March with Yavapai College for Fall Semester.)**

**Hospitality and Tourism 2A:** 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.

**Hospitality and Tourism 2B:** 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.

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

**Interior Design:** 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.

**Journalism:** 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. \*Includes a writing component for the school newsletter

**Medical Terminology A/B:** Medical Terminology is a course for students with an interest in the medical field. This course provides students with knowledge of Latin and Greek roots, prefixes, and suffixes in addition to combining forms and eponymous terms related to the many systems of the human body. Students are also able to learn more about the many professions, specialists, and treatment plans associated with different areas of the body. This course introduces new ways of looking at the body through the lens of medical terms and their origins.

**Welding (Only offered on Fridays at Mountain Institute CTED):** Prepare to enter this much-in-demand field through expert instruction and hands-on experience.  
**(Offered in March only.)**

## **TECHNOLOGY ELECTIVES**

**Cloud Technologies and the Internet of Things:** First, we had the internet of computers. Then with the advent of email and social media, along with mobile technology, it became the internet of people. Today's world is increasingly becoming the internet of things. With advances in battery power, sensors, and computer chips, more and more devices are being connected to the internet. This will allow them to be monitored, controlled, and used more effectively for people and businesses. This course will examine the trends and opportunities surrounding the Internet of Things (IoT). Students will learn about the technologies, hardware, and software that underpin the Internet of Things. The course will examine a variety of end-market applications in our homes, businesses and cities. Finally, students will learn about the many career opportunities that the Internet of Things will enable.

**Computing for College and Careers 1A:** 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 and Careers 1B:** 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!

**Cybersecurity:** In the Cybersecurity course, students will learn about the practice of protecting networks, systems, and programs from digital attacks. They will better understand the aim of these attacks, such as destroying information, extorting money and resources, or disrupting business operations. They will learn about the challenges and opportunities that implementing cybersecurity measures can present. As attackers become more innovative, it is more important than ever to have effective cybersecurity channels in place to counter them. Students will learn about countermeasures and role

recovery and their integral function in the cybersecurity realm. Additionally, students will learn what makes certain networks and systems more vulnerable to attacks. They will become adept at identifying potential viruses, worms, threats, and malware. The Cybersecurity course acts as a foundation on which to build extensive knowledge about threats to digital security.

**Digital Arts:** This course provides computer science students with an introduction to visualization graphics programming on personal computers. The course focuses on using a digital camera and practical application of digital imaging programs. Students learn how to place images in photos and how to mock up drawings of three-dimensional spaces.

**Drones: Remote Pilot Prep Course (Prep for FAA107 Exam):**

This course prepares students to take the Federal Aviation Administration (FAA) Part 107 exam, also known as the Unmanned Aircraft General – Small (UAG) exam, which is essential to becoming a commercial drone pilot. The field of unmanned aerial vehicles is growing rapidly, as the opportunities to use them for search and rescue, photography, recreation, inspection, and many others continue to multiply. Students will learn the critical facts to prepare for the test's topics, which include: regulations, airspace & requirements, weather, loading & performance, and operations. The course will conclude with a look at the most promising careers in the field of drones.

**Fundamentals of Bitcoin & Currency A/B:** Upon completion of this course, students will understand bitcoin, including its history, development, and context within the modern global economy. Students will learn the basic cryptographic principles that underlie bitcoin, and gain confidence by demonstrating strong security principles in storing and transaction bitcoin. Key principles such as mining, wallets, and hashing will be introduced. And finally they will be familiarized with the nascent industry of digital currencies and how they function.

**Introduction to AI:** This course teaches what every student should know about Artificial Intelligence. AI is a fast-moving technology with impacts and implications for both our individual lives and society as a whole. In this course, students will get a basic introduction to the building blocks and components of artificial intelligence, learning about concepts like algorithms, machine learning, and neural networks. Students will also explore how AI is already being used, and evaluate problem areas of AI, such as bias. The course also contains a balanced look at AI's impact on existing jobs, as well as its potential to create new and exciting career fields in the future. Students will leave the course with a solid understanding of what AI is, how it works, areas of caution, and what they can do with the technology.

**Introduction to Keyboarding:** In the Introduction to Typing course, students study the proper typing techniques in order to increase their typing speed or WPM (words per minute). Students practice proper posture, finger positioning, and typing strategies, and they explore safe Internet practices.

**Robotics I (CustomF22)** - How does a robot work? How does a robot move? How does a robot think? Learn these concepts by investigating the use of decision making and block programming on the Sphero Bolt platform. Take this hands-on STEAM course to explore the intersection of robots, art, numbers, and nature.

**The History of Gaming and E-Sports A/B:** In this course, students will learn about the technologies and design principles that have been the foundation of the development of video game technology over the last 50 years. Students will examine and discuss the impact of video games on culture and the economy. Students will learn about the current gaming and e-sports landscape, including strategies and techniques of top teams and individuals. This course will also discuss the risks and dangers of video games and understand how to set appropriate time and content parameters. Finally, the course will identify career paths and opportunities for those who are passionate about gaming.

**Transportation Technologies:** This course introduces students to the newest and most cutting-edge futuristic transportation technologies out there. Students gain familiarity with the history of transportation development and understand a framework with which to evaluate new transportation modes. Then the course dives into 10 different technologies on the horizon. Students examine the technologies, the pros and cons of each mode, and explore potential career paths in these emerging fields.

## **GENERAL ELECTIVES**

**African-American History:** How have African Americans shaped the culture of the United States throughout history? Tracing the accomplishments and obstacles of African Americans from the slave trade through emancipation, and to the modern African diaspora, you will learn about the political, economic, social, religious, and cultural factors that have influenced African American life. In African American History, you'll come face to face with individuals who changed the course of history and learn more about slavery, racism, and the Civil Rights Movement. You will also explore how the history of African Americans influences current events today.

**American Sign Language A:** 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 B:** 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.

**French 1 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 1 A/B:** In German I, 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 I 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.

**Gothic Literature:** 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.

**Greek and Roman Mythology:** In Greek and Roman Mythology, students explore myths from Greece and Rome. They examine the history of mythology and some of the key gods and goddesses. Students learn to connect the cultures of ancient Greece and

Rome with the culture of today. Throughout this course, students use technology and artistic practices to express their knowledge. In addition, they explore vocabulary, literary, and narrative elements, in addition to writing through the lens of mythology. Students work through the process of writing myths of their own through planning, drafting, revising, and publishing.

**History of the Holocaust:** “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.

**Mandarin Chinese 1A:** Mandarin Chinese I 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.

**Music Appreciation A :** This course is designed to help the non-musician understand music basics, including such topics as reading a musical score, melody and harmony, rhythm, music history (styles by period), music theory, musical genres, instruments, orchestration, and arrangement. The course even covers the creation of musical scores using popular music arrangement software. Other topics include the science of musical sound, health and wellness for performers, classical symphony concerts, besides opera performances and etiquette when attending. The course strives to help non-musicians gain an understanding of the world of music and to become well-rounded individuals.

**P.E Online/Personal Fitness -** This course concentrates on the principles of being fit and includes subjects such as evaluating fitness, flexibility, anatomy and physiology of body systems as they relate to being fit (oxygen transport, heart health, muscle fibers, etc.), nutrition, hydration, and designing a personal fitness program. Students acquire knowledge of physical fitness concepts, understand the influence of lifestyle on health and fitness, and begin to develop an optimal level of fitness.

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



**Philosophy:** This course will take you on an exciting adventure that covers more than 2500 years. Along the way, you'll run into some very strange characters. For example, you'll read about a man who hung out on street corners, barefoot and dirty, pestering everyone he met with questions. You'll read about another man who climbed inside a stove to think about whether he existed. Despite their odd behavior, these and other philosophers of the Western world are among the most brilliant and influential thinkers of all time. As you read about them, you'll see where many of the most fundamental ideas of Western civilization came from. You'll also get a chance to ask yourself some of the same questions these great thinkers pondered. At the end, you'll have a better understanding of yourself and the world around you, from atoms to outer space and everything in between.

**Psychology:** The Psychology course begins with a look at basic social science skills including ethical decision-making and statistical evaluation. After a brief survey of careers in psychology, the student will explore the physical processes of the brain and body systems that shape sense and perception. The student will then study theories of development, personality, and conditioning. Next, students will explore mental processes behind thinking and memory, language acquisition, motivation, and emotions. Students will investigate the levels of consciousness and disorders leading to abnormal behavior. The course concludes with an examination of the individual and social behavior. Students will learn about stress, attitude formation, conflict resolution, conformity and obedience, altruism, and morality.

**Social Media:** Do you have any social media accounts? Learn the ins and outs of such social media platforms as Facebook, Twitter, Instagram, Pinterest, 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.

**Sociology:** Have you ever wondered why people act differently from one another or why some people act in more intriguing manners than others? When you view people's behaviors as distinctive and try to figure out why they act the way they do, you are beginning to think like a sociologist! Sociology is the study of human social relationships and how individuals interact with one another in groups. By studying sociology, you'll gain insight into the complexities of our society. If you're interested in understanding the world around you and making a positive difference, studying sociology is for you!

**Spanish 1:** Spanish 1 provides students with a fun and engaging way to build their foundation of the Spanish language. Students will start with basic vocabulary and work up to verb conjugations, parts of speech, and conversational skills. Lessons are structured to be interactive and provide students with many visual and auditory ways of practicing the language.

**Spanish 2:** Spanish 2 builds on students' knowledge to help further mastery of the language. Students will explore more complex parts of speech such as feminine and masculine nouns and homophones. This course also expands on verbs and verb tenses, such as infinitive verbs and irregular verbs. In addition, students will learn and practice their conversational and functional Spanish by exploring concepts such as passing of time and descriptions of locations, as well as writing reports and invitations. To tie everything together, students will be immersed in culturally relevant literature and holidays.

**Weight Training** (for females too!): Students will be introduced to the basic principles of resistance training. This will involve learning the correct technique, major muscle groups, and a variety of equipment that can be used to train. In addition, students will learn a variety of resistance training methods to incorporate into their lifestyle. If there are enough participants, we will be opening another section. People who have already taken weight training are eligible for credit in the second semester also.

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

**World Religions: Exploring Diversity:** 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.