Tiger Trades Academy Course Catalog

Music

Teacher	Course Name	Description	Credit Value
McNerney	Music	This course is designed to introduce students to the fundamentals of playing the guitar. Students will develop skills in reading music, understanding basic music theory, and playing various styles such as rock, folk, and classical. The course emphasizes technique, chord progressions, strumming patterns, and soloing, as well as ensemble playing and performance. By the end of the class, students will be able to perform simple pieces, collaborate with peers, and demonstrate a foundational understanding of guitar music. No prior experience is required.	1

English

Teacher	Course Name	Description	Credit Value
Bouldin	English 7	The English 7 course will review units including Expectations, Visions of the Past and Future, Focusing on an Objective, Overcoming the Odds, Heroes of the People, Neighbors, Battling Adversity, Heritage, and Pursuing the Dream and Fighting for Freedom. In each of these units, students will learn about poetry, figurative language, conflict and theme, phrases and clauses as well as writing personal narratives, arguing their points of view, persuading using speeches along with multiple reviews of grammar and punctuation	1

		rules. Various stories like "Seventh Grade", "I Hear America Singing", and "The Girl who Silenced the World for Five Minutes" will be read throughout the year to delve deeper into English elements.	
Bouldin	English 8	The English 8 course will review units including Everyday Heroes; Setting Goals; The Promise of America; Bravery and Resistance; American Heroes; Rising to the Occasion; Chance and Choice; Out of Many, One; and Making Communities Safer. In each of these units, students will learn about poetry, figurative language, voice and characters, writing themes in fiction, conflict and symbolism, connotation and detonation, capitalization, punctuation, spelling, parts of speech, and cause and effect. Various stories like "Raymond's Run", "The Medicine Bag", and "Broken Chain" will be read throughout the year to delve deeper into English elements.	1
Bouldin	English 9	The English 9 course will review units including Mythology; The Epic Hero’s Quest; Individuality and Conformity; Nature and the Environment, Love, Tragedy, and Drama: An Introduction to Shakespeare; Caring and Making a Difference; Mystery and	1

		Suspense; and Fighting for Equality and Unity. In each of these units, students will learn about myths, compare and contrast, suspense, vocabulary, simple sentences, and how to write various types of stories. Various stories like *The Odyssey*, "Initiation", and "Daughter of Invention" will be read throughout the year to delve deeper into English elements.	
Bouldin	English 10	The English 10 course will review units including Stories from Around the World, Life-Changing Journeys, *Sugar Changed the World,* the Power of Humor, *Animal Farm,* the Art of Argument, the Human Experience, the Language of Leaders, *The Tragedy of Julius Caesar,* and Globalization and the Future. In each of these units, students will learn about autobiographies, clauses, vocabulary, character and culture, poetry, and how to write various types of stories. Various stories like presidential speeches, *The Prince*, and *A Doll's House* will be read throughout the year to delve deeper into English elements.	1
Bouldin	English 11	The English 11 course will review units including American Roots: from Native Traditions to the American Revolution; Bright Romanticism: American	1

		Individualism; Dark Romanticism: American Gothic; A Nation Dividing and Expanding; Make it New: Early Modernism; the Roaring Twenties: Modernism, and Postwar Outlooks; I, too, Am American: the Harlem Renaissance and Cultural Rebellion; Heritage and Multicultural American Identities; and Globalization and the Information Age: Postmodernism into the Twenty-First Century. In each of these units, students will learn about myths, poetry, sentence fluency, grammar, and various types of writing styles like narrative and argumentative. Various stories like "The World on Turtle's Back, "Sinners in the Hands of an Angry God", and "Civil Disobedience" will be read throughout the year to delve deeper into English elements.	
Bouldin	English 12	The English 12 course will review units including Epic Beginnings, From the Middle Ages through the Renaissance, Elizabethan Drama: The Tragedy of *Hamlet,* the Enlightenment in England, English Romanticism, the Gothic Novel: *The Strange Case of Dr. Jekyll and Mr. Hyde,* Nineteenth Century England, the First Half of the Twentieth Century, Cultural Reflections in	1

		Art and Artifacts, and Contemporary Voices and Informational Texts. In each of these units, students will learn about poetry, characterization, central ideas, speeches, and various types of writing styles like narrative and summarization. Various stories like *Gilgamesh, Beowulf,* and *Utopia* will be read throughout the year to delve deeper into English elements.	

Pruyn (Math)

Teacher	Course Name	Description	Credit Value
	Economics and Financial Literacy	Course Description:Economics and Financial Literacy emphasizes the economic way of thinking, which serves as a framework for the personal financial decision-making opportunities introduced in the course. Students will demonstrate the ability to anticipate and address financial challenges as these challenges occur over their lifetime. In addition, students are introduced to common economic and personal financial planning terms and concepts. As a result of learning objective concepts and integrating subjective information, students gain the ability to lead productive and financially self-sufficient lives. The course provides a foundation in both microeconomics and	1

		macroeconomics. Students will survey the impact of demand, supply, various industry structures, and government policies on the market for goods, services, and wages for workers. Macroeconomic study involves economic systems with an emphasis on free enterprise market systems, goals of full employment, price stability, and growth while examining problems such as unemployment and inflation and the policies enacted to address them. It is an integrative course that applies the same economic way of thinking developed to making choices about how to allocate scarce resources in an economy to how to make them at the personal level. The course requires that students demonstrate critical thinking by exploring how to invest in themselves with education and skill development, earn income, and budget for spending, saving, investing, and protecting. Students will examine their individual responsibility for managing their personal finances and understand the impact on standard of living and long-term financial well-being. Further, students will connect how their financial decision making impacts the greater economy.	
	Common Core Math II	Course Description: Common Core Math II is the second course of a	1

		two course sequence including Common Core Math I, and Common Core Math II. This course is aligned to the Common Core State Standards for high school mathematics and supports the Common Core Standards for Mathematical Practice. With this course, students will develop a deep conceptual understanding of mathematical relationships and concepts they will need to succeed in school and in life. It aims to formalize and extend the geometry that students have learned in previous courses. It does this by focusing on establishing triangle congruence criteria using rigid motions and formal constructions and building a formal understanding of similarity based on dilations and proportional reasoning. It also helps students develop the concepts of formal proof, explore the properties of two- and three-dimensional objects, work within the rectangular coordinate system to verify geometric relationships and prove basic theorems about circles. Students also use the language of set theory to compute and interpret probabilities for compound events. The key concepts students will be exposed to in this course include geometric transformations (reflection, rotation, translation, and dilation) and symmetry, relationships between figures (such as similarity and congruence) in terms of rigid motions and similarity transformations and properties of plane figures. Units on plane and solid figures include measurements	

		of plane figures (such as area, perimeter, and angle measure), theorems about circles, including arc lengths and areas of sectors, and measurements of three-dimensional solids (such as volume and surface area). The students will learn trigonometric basics such as tools for analyzing and measuring right triangles, general triangles, and complex shapes (such as the Pythagorean Theorem, and trigonometric ratios). A unit on probability has topics including independence and conditional probability, compound events, expected value, and permutations and combinations. Algebra topics that will be expanded upon are as follows: Investigation of a variety of functions including square root, cube root, absolute value, piecewise-defined, step, and simple inverse functions; representations of quadratic functions with a graphs, tables, equations, and contexts; symbolic manipulation of expressions in order to solve problems, such as factoring, distributing, multiplying polynomials, expanding exponential expressions, etc.; and using algebra to write and solve equations arising from geometric situations.	
	Common Core Math I	Course Description: Common Core Math I is the first course of a two course sequence including Common Core Math I, and Common Core Math II. CM 1 is designed to use patterns, models, and conjectures to build mathematical understanding.	1

		Students taking this course will extend their knowledge in Number and Quantity, Algebra, Functions, Modeling, Geometry, and Statistics and Probability. Students taking this course will use a variety of approaches to deepen their understanding, such as mathematical sense making, making and testing conjectures and justifying conclusions, using mathematical models to represent real world data, providing clear and concise answers, and having computational and symbolic fluency.	
	Financial Math	Course Description: Connecting practical mathematical concepts to personal and business settings, Financial Math offers informative and highly useful lessons that challenge students to gain a deeper understanding of financial math. Relevant, project-based learning activities cover stimulating topics such as personal financial planning, budgeting and wise spending, banking, paying taxes, the importance of insurance, long-term investing, buying a house, consumer loans, economic principles, traveling abroad, starting a business, and analyzing business data. Offered as a two-semester course for high school students, this course encourages mastery of math skill sets, including percentages, proportions, data analysis, linear systems, and exponential functions.	1
	CO Math 7	Course Description:	1

		Math 7 is based on the 7th Grade Common Core State Standards, as embedded within the Colorado Academic Standards. These standards define what students should understand and be able to do. The 7th grade standards focus on six critical areas: (1) understanding and applying proportional relationships; (2) operating with rational numbers; (3) working with expressions and linear equations; (4) solving problems involving scale drawings and informal geometric constructions; (5) working with two-and three-dimensional shapes to solve problems involving area, surface area, and volume; and (6) drawing inferences about populations based on samples. Upon successful completion, students will progress to Math 8.	
	CO Math 8	Course Description: Math 8 focuses on building upon foundational math skills by delving deeper into algebra, geometry, statistics, and data analyses, with an emphasis on real-world applications, problem-solving strategies, and conceptual understanding through topics like linear equations, systems of equations, the Pythagorean Theorem, congruence, similarity, coordinate geometry, and descriptive statistics, all aligned with Common Core State Standards for 8th grade mathematics.	1

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Teacher	Course Name	Description	Credit Value
Ryder	CO-Biology	This course will explore the science of biology, the study of life. Colorado state standards will be used to emphasize concepts of importance in ecology, environmentalism, evolution, and human enterprises such as agriculture, genetic engineering, and medicine. A general focus on the role of humanity within the global biosphere will be a central theme.	1
Ryder	CO-Earth Science	This course will explore the science of planetary and space phenomena. Colorado state standards will be used to emphasize concepts of importance in tectonics, atmospheric events, and geologic processes, and human enterprises such as mining and mechanical industry. A general focus on the existence of humanity within the narrow anthropocenic window out of geologic deep time will be a central theme.	1
Ryder	CO-Science 8	This course will explore the sciences and intersections of biology, physical science, and earth science. Colorado state standards will be used to emphasize concepts of importance in ecology, energy use, and deep time. A general focus on the experience of humanity within the scientific historical era will be a central theme.	MS
Ryder	Physical Science-SC3208 IC	This course will explore the sciences of physics and chemistry. Colorado state standards will be used to emphasize concepts of importance in energy use and space exploration	1

		and human enterprises such as transportation and industrial development. A general focus on the place of humanity within the general expanse of space will be a central theme.	

Social Studies

Teacher	Course Name	Description	Credit Value
Cuckow	***CO-Civics (full year)***	Online work will require students to identify types of governments, the influences on American democracy and its development, through civil rights and government institution roles in maintaining those rights. Students will use a variety of online resources including concept introductions, summaries, assignments and quizzes before moving on to the next unit. While in person, students will have the opportunity to utilize small group and individual responses to convey their understanding and interpretation of the historical events presented in the course. Students will be able to utilize critical thinking, problem solving and the appropriate communication mediums to convey their understanding of the presented course materials. Students are encouraged to provide positive feedback and uplifting enlightenment	

		of discussions to increase outside the box thinking along with opposing viewpoints.	
Cuckow	***CO-US History***	Online work will require students to analyze historical events and explain historical events following the western expansion of the United States. Concepts covered include the indigenous people closing their territories, farmers expansion through the midwest and development and expansion of the industrial revolution. Students will use a variety of online resources including concept introductions, summaries, assignments and quizzes before moving on to the next unit. While in person, students will have the opportunity to utilize small group and individual responses to convey their understanding and interpretation of the historical events presented in the course. Students will be able to utilize critical thinking, problem solving and the appropriate communication mediums to convey their understanding of the presented course materials. Students are encouraged to provide positive feedback and uplifting enlightenment of discussions to increase outside the	

		box thinking along with opposing viewpoints.	
Cuckow	***CO-World History***	Online work will require students to analyze historical events and explain historical events starting with the Renaissance, the conquest of the Americas and the transpired revolution. Students will use a variety of online resources including concept introductions, summaries, assignments and quizzes before moving on to the next unit. While in person, students will have the opportunity to utilize small group and individual responses to convey their understanding and interpretation of the historical events presented in the course. Students will be able to utilize critical thinking, problem solving and the appropriate communication mediums to convey their understanding of the presented course materials. Students are encouraged to provide positive feedback and uplifting enlightenment of discussions to increase outside the box thinking along with opposing viewpoints.	
Cuckow	***CO-Grade 8 US History:***	Online work will require students to analyze historical events and contemporary events from colonial influence to westward expansion and	

		the events that supported them. Concepts presented will include taxations, protest, and organized resistances. The in person lessons will require students to identify the economic and social impact of these historical events and relate them to modern interpretations of similar ideological/modern events. Students will be able to identify the harsh treatments of colonial citizens and provide rationalization for starting a revolution. Students will be encouraged to participate in class discussions and be able to learn to use research and data to support their opinions.	
Cuckow	CO_Geography (full year)	Use geographic tools and resources to analyze Earth's human systems and physical features to investigate and address geographic issues. Analyze variations in spatial patterns of cultural and environmental characteristics at multiple scales while gathering geographic data from a variety of valid sources. For example: Maps, Geographic Information Systems (GIS), graphs, and charts.	

Industrial Arts

Teacher	Course Name	Description	Credit Value
Leeb	Mechanical Design	Students work on simple mechanical	

		concepts and uses. Students will use tools to begin career applications including upholstery, paint/body work, fiberglass repair, and mechanical applications.	
	Construction Trades	Students work on simple Contruction concepts including Carpentry, plumbing,and electrical . Students will use tools to begin career applications.	

Rebecca

Teacher	Course Name	Description	Credit Value
Teacher: Mrs. Hale & Ms. Griffin	High School 3 R's Recycle, Repurpose, Reuse Grade: 9th to 12th	In this course students will learn about recycling, what items can be recycled, what is the purpose of recycling. They will also discover how items can and will serve a new purpose. Students will recreate new projects for class and put on display at local art shows. This will open an opportunity for entrepreneurship.	Credit: .5 per semester
Teacher: Ms. Griffin	High School Animal Science Grade: 9th to 12th	In this course students will explore the animal world and its science, by learning about livestock and Agriculture, its daily operations and careers pathways within the animal science world. We will use Colorado State University extension materials along with the Intro to Ag courses in our Edgenuity courses.	Credit: .5 per semester
Teacher: Ms. Griffin	High School Food Safety & Culinary Arts Grade: 9th to 12th	In this course students will learn the proper way to safely handle, prepare and cook food. We will follow the Safe Serve food guidelines and handbook as a tool, along with the Food Products and Processing systems & Food Safety and	Credit: .5 per semester

		Sanitation courses in our Edgenuity courses.	
Teacher: Ms. Griffin	High School Academic Success Grade: 9th to 12th	In this course students will use our Edgenuity program to complete their academic and elective classes. To become successful in reaching their graduation requirements.	Credit: .5 per semester

Teacher	Course Name	Description	Credit Value
Hale	Art 1	Students will explore color, value and hue. Beginning ceramics, including pinch pots, coil and slab, all hand built. Beginning drawing and painting. Creative thinking and problem solving.Learn the Art language!	1
Hale	Art 2	Continue to work on color. Choose harder ceramic pieces, adding handles and spouts. Mix colors and use in a painting. Using pencils create drawings that can be taken to a show. Learn to weave a small piece. Begin your portfolio.	1
Hale	Art 3	Try new things. See what famous artists in this day and age. Try their style. Loosen up. Continue working on your portfolio!	1

Griffy

Teacher	Course Name	Description	Credit Value
Griffy/Griffin	Academic Support	This course is designed to provide	0.5

		students with personalized assistance in developing the skills necessary for academic success. Through structured support and individualized guidance, students will strengthen foundational skills in areas such as organization, time management, study strategies, and goal setting. This class also offers support for core subject areas with opportunities to complete assignments. Students can build self confidence, self-advocacy, and a growth mindset. This course is ideal for students seeking to enhance their academic performance and overall learning experience.	
Griffy/Griffin/Ryder/ Cuckow	Credit Recovery	The Credit Recovery course is designed to help students regain academic credits for courses they did not successfully complete.This flexible, self-paced program allows students to focus on mastering the essential content and skills needed to meet course requirements. With a combination of teacher guidance, online resources, and individualized learning plans, students will engage in targeted instruction and assessments tailored to their unique needs. The course emphasizes accountability, perseverance, and academic growth, ensuring students stay on track to meet graduation requirements.	0.5

Teacher	Course Name	Description	Credit Value
		The mission of TTA Physical Education Department is to promote healthy living. When individuals are in good health, they have the energy to enjoy life and pursue their dreams. Students will be taught the benefits of making healthy choices and practicing healthful behaviors. Our focus will be to promote wellness, increase knowledge, and encourage the practice of a healthy lifestyle. Students will increase aerobic capacity, muscular endurance, muscular strength, flexibility, body composition, speed, power, reaction time, agility, balance, and coordination.	

(Tech) Tambiga

Teacher	Course Name	Description	Credit Value
		Course Title: Media Production Course Description: This course provides a comprehensive overview of the principles and practices involved in media production. Students will explore the fundamental concepts of sound and image capture, editing, and presentation. The curriculum covers various aspects	

		including: Audio Fundamentals: Understanding sound recording techniques, microphone types, and audio mixing. Visual Techniques: Camera operation, lighting principles, and framing. Editing and Post-Production: Use of software tools for video and audio editing, color correction, and sound design. Production Workflow: Planning, scripting, and project management for audio-visual projects. Hands-on projects will allow students to apply their skills in real-world scenarios, preparing them for careers in film, television, and digital media. By the end of the course, students will have a solid foundation in creating and producing high-quality audio-visual content. Prerequisites: None Credits: .5	
		Course Title: Computer Business information system Course Description: This course provides an overview of the principles and practices involving how to use computers in real world scenarios. Students will explore the fundamental usage of computers. The curriculum covers various aspects including: Computer Fundamentals: Understanding Electronic	

		communication, Workplace skills and habits, organizing information, Hardware vs. Software, word processing, Desktop publishing, presentations and basic networking. Prerequisites: None Credits: 1	

Valdez

Teacher	Course Name	Description	Credit Value
Valdez	Work Study	Work study allows students to gain work experience while exploring careers. It is an opportunity that allows students to earn money while avoiding any interference with their studies while being a full time student. Students will have to fill out a registration and agreement paper and a Student/Employer agreement. They would have to turn in a timesheet with a brief description of the tasks that they performed weekly.	1

Edgenuity Courses

Teacher	Course Name	Description	Credit Value
Dependent on course	See below	Students may enroll in courses offered on the Edgenuity Platform	Dependant on Course

CONSTRUCTION CAREERS

Construction Careers is a semester-long course that introduces high school students to the basics of construction, building systems, engineering principles, urban planning, and sustainability. Students learn the key techniques in building all types of buildings, as well as the key individuals involved in each step of the process. Many lessons present information on green building techniques and concepts that are becoming a standard part of the construction industry. Safety practices are emphasized in several lessons because construction is one of the most dangerous industries; students learn that there is no way to be successful in construction without taking such issues seriously. Lessons in this course also explore regulatory agencies and guidelines established for protecting not only construction workers but also the occupants of a building.

FUNDAMENTALS OF COMPUTER SYSTEMS

Fundamentals of Computer Systems is a semester-long high school course that provides students with an understanding of computers and how they operate as well as a basic understanding of how to manage and maintain computers and computer systems. These skills provide students with the ability to configure computers and solve computer problems. Students learn details about the different elements of computers and computer systems, how to identify hardware devices and their functions, the role of operating systems as well as how to install and customize Windows operating system. Students also learn about networking

CAREER PLANNING AND DEVELOPMENT - EL4222

Introducing high school students to the working world, this course provides the knowledge and insight necessary to compete in today's challenging job market. This relevant and timely course helps students investigate careers as they apply to personal interests and abilities,

develop skills and job search documents needed to enter the workforce, explore the rights of workers and traits of effective employees, and address the importance of professionalism and responsibility as careers change and evolve. This two-semester course includes lessons in which students create a self-assessment profile, a cover letter, and a résumé that can be used in their educational or career portfolio.

INTRODUCTION TO NETWORK SYSTEMS

This semester-long course introduces students to the fundamental technology and concepts that make networking systems possible. The most important concept introduced is that of the OSI reference model and its bottom four layers, which are most directly concerned with networking instead of computing. The course explores the software and hardware supporting LANs, WANs, and Wi-Fi networks. Students are introduced to the protocols in the TCP/IP stack that are used to communicate across a network, and to networking hardware, including hubs, switches, bridges, routers, and transmission media. Students explore questions of security, network management, and network operating systems.

INTRODUCTION TO HUMAN GROWTH AND DEVELOPMENT

This semester-long course focuses on human growth and development over the lifespan, as well as careers that help people deal with various physical, intellectual, and socioemotional issues, such as physicians, nurses, nutritionists, substance abuse counselors, clergy, teachers, career counselors, psychologists, and psychiatrists. The course provides a background in human growth and development from before birth, through childhood, into adulthood, and through death and grief. It gives the student perspective and highlights where people in the caring professions are most needed. Students who take this course will come.

BUSINESS COMPUTER INFORMATION SYSTEMS

Business Computer Information Systems is a year-long course that explores the use of technology applications in both business and personal situations. The course provides key knowledge and skills in the following areas: communication, business technology, word processing, spreadsheet, and database applications, telecommunications, desktop publishing, and presentation technology, computer networks, and computer operating systems. Note: Students may use MS Office, Google Workspace, or any comparable software to complete the activities in this course.

CAREER EXPLORATIONS I

Career Explorations I is a semester-long course designed to give middle school students an opportunity to explore various CTE subjects. Specifically, students learn about careers involving human-related services. Each of the five units introduce one particular field and explains its past, present, and future. These units include: Career Management, Introduction to Careers in Health Sciences, Hospitality and Tourism Systems, Human Services, and Consumer Services. The goal is to whet students' appetites for these careers. Students can then explore that career in more detail as a high school student.

CAREER EXPLORATIONS II

Career Explorations II is a semester-long course designed to give middle school students an opportunity to explore various CTE subjects. Specifically, students learn about careers involving various technical fields from computers to agriculture. Each of the five units introduces one particular field and explains its past, present, and future. These units include: Information Technology, Introduction to Information Support and Services, Introduction to Network Systems, Introduction to Agriculture, food, and Natural Resources, and introduction to STEM (Science, Technology, Engineering, and Mathematics). The goal is to whet students' appetites for these careers. Students can then explore that career in more detail as a high school student.

CAREER EXPLORATIONS III

Career Explorations III is a semester-long course designed to give middle school students an opportunity to explore various CTE subjects. Specifically, students learn about careers from business to hands-on career paths. Each of the five units introduces one particular field and explains its past, present, and future. These units include: Introduction to Business and Finance, Introduction to Manufacturing, Introduction to Transportation, Distribution, and Logistics, Introduction to Architecture and Construction, and Introduction to Marketing. The goal is to whet students' appetites for these careers. Students can then explore that career in more detail as a high school student.

INTRODUCTION TO CAREERS IN ARCHITECTURE AND CONSTRUCTION

The goal of this semester-long high school course is to provide students with an overview of careers in architecture and construction in order to assist with informed career decisions. This dynamic, rapidly evolving career cluster is comprised of three pathways (fields): Design and Pre-Construction (Architecture and Engineering); Construction (Construction and Extraction); and Maintenance and Operations (Installation, Maintenance, and Repair). The Architecture and Construction career cluster is defined as careers in building, designing, managing, maintaining, and planning the built environment. The built environment encompasses all zones of human activity from natural conservation areas with minimal human intervention to highly dense areas with tall skyscrapers and intricate highway systems to suburban cul-de-sacs. The interrelated components that make up the built environment are as varied and unique as the professionals who help shape it.

ANIMAL SYSTEMS

Animal Systems is a semester-long high school course that provides students with a wealth of information on livestock-management practices, animal husbandry, physiological systems, the latest scientific trends, veterinary practice, and innovations in food production. Changes in practices, regulations, and legislation for animal welfare continue as new research provides solutions to medical, ethical, and practical concerns. The course reviews current topics, such as advancements in technology and research, and defines areas of discussion while maintaining focus on best-management practices. A student might use the knowledge gained from the course to further an interest in becoming a chef, researcher, doctor, wildlife-management professional, or any number of applicable careers.

HEALTH, SAFETY, AND ETHICS IN THE HEALTH ENVIRONMENT

Health, Safety, and Ethics in the Health Environment is a semester-long high school course that focuses on healthcare safety, health maintenance practices, environmental safety processes and procedures, and ethical and legal responsibilities. It also reinforces, expands, and enhances biology content specific to diseases and disorders. Students participate in project-and problem-based healthcare practices and procedures to demonstrate the criticality of these knowledge and skills. Students develop basic technical skills required for all health career specialties including understanding occupational safety techniques and obtaining their CPR and First Aid certifications.

INTRODUCTION TO CAREERS IN ARTS, A/V TECHNOLOGY AND COMMUNICATIONS

This introductory semester-long high school course provides comprehensive information on five separate areas of arts and communications as potential educational and career pathways, including: audio/video technology and film, performing arts, visual arts, printing technology, journalism and broadcasting, and telecommunication systems. Students who are interested in careers across a broad spectrum of professional positions, including fine artist, telecommunications administrator, magazine editor, broadcast journalist, or computer graphic artist, will gain useful perspective on industry terminology, technology, work environment, job outlook, and guiding principles.

FOOD SAFETY AND SANITATION

This comprehensive semester-long course covers the principles and practices of food safety and sanitation that are essential in the hospitality industry for the protection and well-being of staff, guests and customers. The course provides a systems approach to sanitation risk management and the prevention of food contamination by emphasizing the key components of the Hazard Analysis Critical Control Point (HACCP) food safety system. After successful completion of this course, students are prepared to meet the requirements of state and national certification exams.

THERAPEUTICS: THE ART OF RESTORING AND MAINTAINING WELLNESS

Therapeutics: The Art of Restoring and Maintaining Wellness is a semester-long high school course that focuses on careers that help restore and maintain mobility and physical and mental health, such as physical therapists, physical therapy assistants, occupational therapists, athletic trainers, massage therapists, dieticians and dietetic technicians, art therapists, neuro therapists, vocational rehabilitation counselors, and registered dental hygienists. Each career is explored in depth, examining typical job duties, educational and licensure requirements, working conditions, average salary, and job outlook. Key concepts and specific skill sets are introduced in the lessons, allowing students to apply what they have learned to health careers. This course is important because skilled health care workers are in high demand and expected to remain so for the foreseeable future.

SMALL BUSINESS ENTREPRENEURSHIP A

This semester is the first half of a full-year course designed to provide the skills needed to effectively organize, develop, create, manage and own a business, while exposing students to the challenges, problems, and issues faced by entrepreneurs. Throughout this course, students explore what kinds of opportunities exist for small business entrepreneurs and

become aware of the necessary skills for running a business. Students become familiar with the traits and characteristics that are found in successful entrepreneurs, and see how research, planning, operations, and regulations can affect small businesses. Students also learn how to develop plans for having effective business management, financing and marketing strategies.

INTRODUCTION TO AGRICULTURE, FOOD, AND NATURAL RESOURCES

This semester-length high school course introduces students to the basic scientific principles of agriculture and natural resources. Students recognize and research plant systems, animal systems, government policy, “green” technologies, agribusiness principles, and sustainability systems. In this course, students apply understanding of ecosystems and systems thinking to the management of natural resources to maximize the health and productivity of the environment, agriculture, and communities. Students also analyze community practice or policy development related to sustainability in agriculture, food, and natural resources. Finally, students apply adaptive ecosystem management to a common pool resource problem in a manner that addresses ecological, socioeconomic, and institutional contexts.

STEM AND PROBLEM SOLVING

This semester-long high school course outlines how to apply the concepts and principles of scientific inquiry, encouraging the use of problem-solving and critical-thinking skills to produce viable solutions to problems. Students learn the scientific method, how to use analytical tools and techniques, how to construct tests and evaluate data, and how to review and understand statistical information. This problem-solving course stresses analytic skills to properly format problem statements, use of the scientific method to investigate problems, the use of quantitative and qualitative approaches to construct tests, and an introduction to reviewing and interpreting statistical information.

INTRODUCTION TO CONSUMER SERVICES

In this semester-long course, students analyze various career paths in terms of employment opportunities and educational requirements, such as hard and soft skills, certifications, and licensures for different pathways. Developing research, analytical, and presentations skills are key components. This course is designed as an overview to prepare students for a consumer services-related career and to introduce them to specialty areas. Emphasis is placed on the human services aspect (vs. corporate concerns) of consumer services. Social issues and

advocacy, as well as ethics and legalities, are a recurring theme. Students gain knowledge of current issues affecting various consumer services professions, and the impact of local, state, national and global issues on consumer services.

INTRODUCTION TO ART

Covering art appreciation and the beginning of art history, this course encourages students to gain an understanding and appreciation of art in their everyday lives. Presented in an engaging format, Intro to Art provides an overview of many introductory themes: the definition of art, the cultural purpose of art, visual elements of art, terminology and principles of design, and two- and three-dimensional media and techniques. Tracing the history of art, high school students enrolled in the course also explore the following time periods and places: prehistoric art, art in ancient civilizations, and world art before 1400.

STRATEGIES FOR ACADEMIC SUCCESS

Offering a comprehensive analysis of different types of motivation, study habits, and learning styles, this one-semester course encourages high school and middle school students to take control of their learning by exploring varying strategies for success. Providing engaging lessons that will help students identify what works best for them individually, this one-semester course covers important study skills, such as strategies for taking high-quality notes, memorization techniques, test-taking strategies, benefits of visual aids, and reading techniques.

FOUNDATIONS OF PERSONAL WELLNESS

Exploring a combination of health and fitness concepts, this comprehensive and cohesive course explores all aspects of wellness. Offered as a two-semester course designed for high school students, coursework uses pedagogical planning to ensure that students explore fitness and physical health and encourages students to learn about the nature of social interactions and how to plan a healthy lifestyle. NOTE: This course contains content from both Healthy Living and Lifetime Fitness; to avoid duplication, students should take either those one-semester courses or this full-year course.

PERSONAL FINANCE

This one-semester introductory finance course teaches what it takes to understand the world of finance and make informed decisions about managing finances. Students learn more about economics and become more confident in setting and researching financial goals as they develop the core skills needed to be successful. In this one-semester course, students learn how to open bank accounts, invest money, apply for loans, apply for insurance, explore careers, manage business finances, make decisions about major purchases, and more. Students will be inspired by stories from finance professionals and individuals who have reached their financial goals.

HEALTHY LIVING

Encouraging students to make responsible, respectful, informed, and capable decisions about topics that affect the well-being of themselves and others, this high school course provides students with comprehensive information they can use to develop healthy attitudes and behavior patterns. Available as either a semester or year-long course, this informative and engaging course encourages students to recognize that they have the power to choose healthy behaviors to reduce risks.

ART HISTORY I

Introducing art within historical, social, geographical, political, and religious contexts for understanding art and architecture through the ages, this course offers high school students an in-depth overview of art throughout history, with lessons organized by chronological and historical order and world regions. Students enrolled in this course cover topics including early medieval and Romanesque art; art in the twelfth, thirteenth, and fourteenth centuries; fifteenth-century art in Europe; sixteenth-century art in Italy; the master artists; High Renaissance and baroque art; world art, which includes the art of Asia, Africa, the Americas, and the Pacific cultures; eighteenth-and nineteenth-century art in Europe and the Americas; and modern art in Europe and the Americas.

DIGITAL LITERACY

This semester-long elective provides a foundation to understanding key applications, computing
fundamentals, and online living. This course focuses on describing technology basics

including finger placement on the keyboard and the differences between hardware and software. Students describe the functions of operating systems and their utilities, identify computer networks, how they work, and computer and internet safety. Students identify different communications industries and how to use email, Microsoft Word®, PowerPoint®, and Outlook®, describe how to create spreadsheets, enter data, create graphs, and use formulas and shortcuts in spreadsheets. Additionally, students will identify the functions of PowerPoint®, digital media, intellectual property law, workplace crimes, privacy concerns, digital citizenship, and how to stay safe on social media.

HEALTH QUEST

This middle school Health course introduces students to the concepts of what good health is, why good health is important, and what students should do in order to achieve good health. By the end of this course, students will be able to demonstrate an awareness of health as it applies to their bodies, minds, and environment; identify the components of a healthy lifestyle; set reasonable wellness goals; and apply health concepts across multiple contexts.

BUSINESS ENGLISH

Business English is a year-long course where students will use technology to develop research, organization, and written and oral communication skills as they relate to a business setting. Students will learn how to communicate appropriately by investigating nonverbal and verbal communication as it applies in the workplace. These skills will help prepare students for careers or employment within Business Administration and Management career pathways such as business management, administrative services, medical administration, and office management.

ENGLISH LANGUAGE ARTS 7

Students grow as readers, writers, and thinkers in this middle school course. With engaging literary and informational texts, students learn to think critically, analyze an author’s language, and cite evidence to support ideas. Students complete an in-depth study of Jack London’s

classic novel White Fang and read excerpts from other stories, poetry, and nonfiction. Explicit modeling and ample opportunities for practice help students sharpen their vocabulary, grammar, and listening skills. Students also respond routinely to texts they have read. In extensive, process-based writing lessons, students write topical essays in narrative, informative, analytical, and argumentative formats. In this full-year course, students develop a mastery of reading, writing, and language arts skills.

ENGLISH LANGUAGE ARTS 8

In this course, students build on their knowledge and blossom as thoughtful readers and clear, effective writers. A balance of literary and informational texts engage students throughout the course in reading critically, analyzing texts, and citing evidence to support claims. Students sharpen their vocabulary, grammar, and listening skills through lessons designed to provide explicit modeling and ample opportunities to practice. Students also routinely write responses to texts they have read, and use more extensive, process-based lessons to produce full-length essays in narrative, informative, analytical, and argumentative formats. In this full-year course, students develop a mastery of reading, writing, and language arts skills.

ENGLISH LANGUAGE ARTS 9

In this thematically organized course, students read a broad variety of fiction and nonfiction, building their background knowledge across complex texts. Students draw upon what they've read to answer questions, make and support claims, analyze central ideas and details, and trace ideas across multiple texts. Students will develop and apply critical thinking and literary analysis skills as they speak, listen, read, and write, building the language arts skills they will need for college and career readiness.

ENGLISH LANGUAGE ARTS 10

This sophomore English course is organized thematically, allowing students to trace ideas across multiple fiction and nonfiction texts. As students engage with what they read, they use textual evidence to support arguments and to make inferences about the author's purpose and choice of language. In this course students speak, listen, read, and write—developing and applying a range of critical thinking and literary analysis skills they will need to tackle more complex texts in upper grades, college, and careers.

ENGLISH LANGUAGE ARTS 11

In this course, students journey through the history of American literature, from the early writings of Indigenous peoples and European settlers to modern texts. As students read, they are encouraged to use textual evidence to support their analyses and analyze the impact of the author's choices. Students make written and oral arguments to support claims, and they build upon previous writing skills to develop a formal and mature writing style. Students also develop their listening skills, integrating what they hear and what they read to form and communicate clear perspectives on a variety of issues.

ENGLISH LANGUAGE ARTS 12

In this course, students journey through British literature as they analyze foundational fiction and literary nonfiction works. As students read, they use textual evidence to support their analyses and analyze the impact of the author's choices. Students make written and oral arguments to support claims, and they build upon previous writing skills to develop a formal and mature writing style. Students also further develop their listening skills, integrating what they hear and what they read to form and communicate clear perspectives on a variety of issues.

PRE-ALGEBRA

This full-year course is designed for high school students who have completed a middle school
mathematics sequence but are not yet algebra-ready. This course reviews key algebra readiness skills from the middle grades and introduces basic Algebra I work with appropriate support. Students revisit concepts in numbers and operations, expressions and equations, ratios and proportions, and basic functions. By the end of the course, students are ready to begin a more formal high school Algebra I study.

FINANCIAL MATH

Connecting practical mathematical concepts to personal and business settings, this course offers informative and highly useful lessons that challenge students to gain a deeper

understanding of financial math. Relevant, project-based learning activities cover stimulating topics such as personal financial planning, budgeting and wise spending, banking, paying taxes, the importance of insurance, long-term investing, buying a house, consumer loans, economic principles, traveling abroad, starting a business, and analyzing business data. Offered as a two-semester course for high school students, this course encourages mastery of math skill sets, including percentages, proportions, data analysis, linear systems, and exponential functions.

ALGEBRA II

This course focuses on functions, polynomials, periodic phenomena, and collecting and analyzing data. The course begins with a review of linear and quadratic functions to solidify a foundation for learning these new functions. Students make connections between verbal, numeric, algebraic, and graphical representations of functions and apply this knowledge as they create equations and inequalities that can be used to model and solve mathematical and real-world problems. As students refine and expand their algebraic skills, they will draw analogies among the operations and field properties of real numbers and those of complex numbers and algebraic expressions. Mathematical practices and habits of mind are embedded throughout the course, as students solve novel problems, reason abstractly, and think critically.

MATHEMATICS 7

This course begins with an in-depth study of proportional reasoning during which students utilize
concrete models such as bar diagrams and tables to increase and develop conceptual understanding of rates, ratios, proportions, and percentages. Students' number fluency and understanding of the rational number system are extended as they perform operations with signed rational numbers embedded in real-world contexts. In statistics, students develop meanings for representative samples, measures of central tendency, variation, and the ideal representation for comparisons of given data sets. Students develop an understanding of both theoretical and experimental probability. Throughout the course, students build fluency in writing expressions and equations that model real-world scenarios. They apply their understanding of inverse operations to solve multi-step equations and inequalities. Students build on
their proportional reasoning to solve problems about scale drawings by relating the

corresponding lengths between objects. The course concludes with a geometric analysis of angle relationships, area, and volume of both two- and three-dimensional figures.

MATHEMATICS 8

The course begins with a unit on input-output relationships that builds a foundation for learning about functions. Students make connections between verbal, numeric, algebraic, and graphical representations of relations and apply this knowledge to create linear functions that can be used to model and solve mathematical and real-world problems. Technology is used to build deeper connections among representations. Students focus on formulating expressions and equations, including modeling an association in bivariate data with a linear equation, and writing and solving linear equations and systems of linear equations. Students develop a deeper understanding of how translations, rotations, reflections, and dilations of distances and angles affect congruency and similarity. Students develop rules of exponents and use them to simplify exponential expressions. Students extend rules of exponents as they perform operations with numbers in scientific notation. Estimating and comparing square roots of non-perfect squares to perfect squares exposes students to irrational numbers and lays the foundation for applications such as the Pythagorean theorem, distance, and volume.

COMMON CORE MATH I

This course formalizes and extends middle-school mathematics, deepening students' understanding of linear relationships. The course begins with a review of relationships between quantities, building from unit conversion to a study of expressions, equations, and inequalities. Students contrast linear and exponential relationships, including a study of sequences, as well as applications such as growth and decay. Students review one-, two-, and multi-step equations, formally reasoning about each step using properties of equality. Students extend this reasoning to systems of linear equations. Students use descriptive statistics to analyze data before turning their attention to transformations and congruency theorems. Equations and figures in the coordinate plane assist in connecting Algebra and Geometry through coordinates. The structure and content of this course naturally guides students to experience mathematics as a rational, beneficial subject which challenges students to critically think through problem situations.

Common Core Mathematics II

This course begins by focusing on the extension of the number system. Students evaluate functions, touch on exponential functions, and explore the operations of polynomials. Next,

nonlinear functions are covered before students complete a unit on factoring polynomials using various methods. The course continues with quadratic expressions, equations, and functions; comparing their characteristics and behavior to those of linear and exponential relationships from previous courses. As quadratic equations become more multifaceted, real and complex numbers are introduced to extend the set of rational numbers which can be used to solve quadratic equations. Students also explore the link between probability and data through conditional probability, two-way tables, and counting methods. Finally, this course challenges students to make connections between algebra and geometry as they study similarity, right triangle trigonometry and proofs, as well as circles with and without coordinates. Students are able to use coordinates to prove simple geometric theorems algebraically as well as analyze two- and three- dimensional figures. The content within this course allows students to practice problem solving and critical thinking as they attempt real-world scenario math problems.

FINANCIAL MATH

Connecting practical mathematical concepts to personal and business settings, this course offers informative and highly useful lessons that challenge students to gain a deeper understanding of financial math. Relevant, project-based learning activities cover stimulating topics such as personal financial planning, budgeting and wise spending, banking, paying taxes, the importance of insurance, long-term investing, buying a house, consumer loans, economic principles, traveling abroad, starting a business, and analyzing business data. Offered as a two-semester course for high school students, this course encourages mastery of math skill sets, including percentages, proportions, data analysis, linear systems, and exponential functions.

PRE-ALGEBRA

This full-year course is designed for high school students who have completed a middle school
mathematics sequence but are not yet algebra-ready. This course reviews key algebra readiness skills from the middle grades and introduces basic Algebra I work with appropriate support. Students revisit concepts in numbers and operations, expressions and equations, ratios and proportions, and basic functions. By the end of the course, students are ready to begin a more formal high school Algebra I study.

ALGEBRA I

This course focuses on five critical areas: relationships between quantities and reasoning with equations, linear and exponential relationships, descriptive statistics, expressions and equations, and quadratic functions and modeling. This course builds on the foundation set in middle grades by deepening students' understanding of linear and exponential functions and developing fluency in writing and solving one-variable equations and inequalities. Students will interpret, analyze, compare, and contrast functions that are represented numerically, tabularly, graphically, and algebraically. Quantitative reasoning is a common thread throughout the course as students use algebra to represent quantities and the relationships among those quantities in a variety of ways. Standards of mathematical practice and process are embedded throughout the course, as students make sense of problem situations, solve novel problems, reason abstractly, and think critically.

GEOMETRY

This course formalizes what students learned about geometry in the middle grades with a focus on reasoning and making mathematical arguments. Mathematical reasoning is introduced with a study of triangle congruency, including exposure to formal proofs and geometric constructions. Then students extend what they have learned to other essential triangle concepts, including similarity, right-triangle trigonometry, and the laws of sines and cosines. Moving on to other shapes, students justify and derive various formulas for circumference, area, and volume, as well as cross-sections of solids and rotations of two-dimensional objects. Students then make important connections between geometry and algebra, including special triangles, slopes of parallel and perpendicular lines, and parabolas in the coordinate plane, before delving into an in-depth investigation of the geometry of circles. The course closes with a study of set theory and probability, as students apply theoretical and experimental probability to make decisions informed by data analysis.

BASIC MATH I

Students will review whole-number operations, the relationships between operations, and the application of whole-number operations to real-world problems students will encounter in their lives as consumers and citizens.

BASIC MATH II

Students will review elementary fraction and decimal concepts and procedures with a focus on comparisons and benchmarks. Students will review and apply fraction and decimal operations to an array of real-world problems.

EARTH SCIENCE

Students enrolled in this dynamic course explore the scope of Earth sciences, covering everything from basic structure and rock formation to the incredible and volatile forces that have shaped and changed our planet. As climate change and energy conservation become increasingly prevalent in the national discourse, it will be important for students to understand the concepts and causes of our changing Earth. Earth Science is a two-semester course that provides a solid foundation for understanding the physical characteristics that make the planet Earth unique and examines how these characteristics differ among the planets of our solar system.This compelling full-year course engages students in the study of life and living organisms and examines biology and biochemistry in the real world. It encompasses traditional concepts in biology and encourages exploration of new discoveries in this field of science. The components include biochemistry, cell biology, cell processes, heredity and reproduction, the evolution of life, taxonomy, human body systems, and ecology.

PHYSICAL SCIENCE

This full-year course focuses on basic concepts in chemistry and physics and encourages exploration of new discoveries in the field of physical science. The course includes an overview of scientific principles and procedures and has students examine the chemical building blocks of our physical world and the composition of matter. Additionally, students explore the properties that affect motion, forces, and energy on Earth. Building on these concepts, the course covers the properties of electricity and magnetism and the effects of these phenomena. As students refine and expand their understanding of physical science, they will apply their knowledge to complete interactive virtual labs that require them to ask questions and create hypotheses. Hands-on wet lab options are also available.

CHEMISTRY

This rigorous full-year course engages students in the study of the composition, properties, changes, and interactions of matter. The course covers the basic concepts of chemistry and includes virtual laboratory experiments that encourage higher-order thinking, and applications. There is also a wet lab component for each of these labs. The components of this course include the composition and properties of matter, changes and interactions of matter, organic chemistry, and nuclear chemistry.

LIFE SCIENCE

Examining a broad spectrum of the biological sciences, Life Science is a full-year course for middle school students that builds on basic principles of scientific inquiry and translates those skills to more complex, overarching biological themes. The course includes units that help students understand the definitions, forms, and classifications of living organisms and learn to analyze the diversity of each unique group of living organisms. Other units introduce students to the structures and functions of cells, cell theory, and cell reproduction. These larger themes are then applied to other topics, such as genetics, Darwinian theory, and human biology and health. An introduction of ecology draws all of these concepts together to examine the interrelationships that help to maintain life on Earth.

WORLD HISTORY ESSENTIALS I AND II

Students will learn foundational world history concepts and skills as they examine the Renaissance, Enlightenment and the Scientific Revolution, Imperialism, International Conflict, and Globalization/Modern Issues. Focus skills include analyzing secondary and primary sources, interpreting charts, graphs, and maps, and writing short responses and essays.