



JOPLIN HIGH SCHOOL  
**VIRTUAL**

EDUCATION CAREER PLANNING  
GUIDE AND COURSE CATALOG

Updated February 2024

# Virtual Course Options

## VIRTUAL ENGLISH COURSES

### **VIRTUAL ENGLISH I (9)**

1 Unit

*No Prerequisite.*

The English I curriculum is organized around thematic units that are designed to address the skills required of the ninth grade Missouri Learning Standards. Students should be prepared to read and write about poetry, short stories, plays, novels, or nonfiction texts.

### **VIRTUAL ENGLISH II (10)**

1 Unit

*Prerequisite: English I*

The English II curriculum is organized around thematic units that are designed to address the skills required of the tenth grade Missouri Learning Standards. Students should be prepared to read and write about poetry, short stories, plays, novels, or nonfiction texts. There is also a significant effort in this course to prepare students for the English II End-of-Course exam; this exam is a state requirement for graduation

### **VIRTUAL ENGLISH III (11)**

1 Unit

*Prerequisite: English II*

English III is a grade level, two-semester course that develops reading and communication skills needed for success in the classroom and beyond. The course uses texts from American literature using a mix of individual, group, and classroom strategies. Students will read independently, continue practicing their grammar skills, and will analyze poetry, nonfiction articles, and novels.

### **VIRTUAL ENGLISH IV (12)**

1 Unit

*Prerequisite: English III*

English IV is a two-semester course that continues to develop the skills attained in English III. Students in this course will continue utilizing 21st Century skills to prepare for post-secondary plans, including the composition of a variety of writing genres and continuing study of the English language. Students will primarily read works from the English Literature canon, fine-tuning their critical thinking and analytical skills, while increasing their cultural awareness.

### **VIRTUAL INTRODUCTION TO COMMUNICATIONS AND SPEECH**

1 UNIT

*No Prerequisite.*

Beginning with an introduction that builds student understanding of the elements, principles, and characteristics of human communication, this course offers fascinating insight into verbal and nonverbal messages and cultural and gender differences in the areas of listening and responding. High school students enrolled in this course will be guided through engaging lectures and interactive activities, exploring themes of self-awareness and perception in communication. The course concludes with units on informative and persuasive speeches, and students are given the opportunity to critique and analyze speeches.

## **VIRTUAL SOCIAL STUDIES COURSES**

### **VIRTUAL AMERICAN GOVERNMENT (12)**

1/2 Unit

*No Prerequisite.*

American Government is one unit of credit in the institutions, branches and functions of the government of the State of Missouri, including local government, and of the government of the United States, and in the electoral process. A major goal of the course is to develop in students an appreciation of our system of government and a recognition of the obligations of citizenship in a democratic society. The students will be expected to demonstrate, through examination, through examination, an understanding of the basic provisions and principles of the Constitutions of the United State and of the State of Missouri as prescribed by state statute.

### **VIRTUAL AMERICAN HISTORY (11)**

1 Unit

*No Prerequisite.*

American History is a one-unit credit in American history and institutions, beginning with Three Worlds and their meeting in America (beginnings to 1607) and continuing through to Contemporary America (1945 to present). Emphasis is placed on social, cultural, and economic development as well as traditional areas of political and military events. This course will prepare students to take part in our rapidly changing American society by allowing them to see the influence of the past on the present. The students will be expected to demonstrate, through examination, an understanding of American history and American institutions as prescribed by state statute.

### **VIRTUAL ABNORMAL PSYCHOLOGY (10-11-12)**

1/2 Unit

*Prerequisites: Intro to Psychology or AP Psychology*

The scientific study of troublesome feelings, thoughts, and behaviors associated with mental disorders listed in the DSM-V. Students will learn to evaluate, understand, predict, and prevent mental disorders and help those who are in distress. Categories include anxiety, mood, dissociative, substance-related, personality and schizophrenia.

### **VIRTUAL INTRODUCTION TO PSYCHOLOGY (9-10-11-12)**

1/2 Unit

*No Prerequisites.*

This class will study Psychology and its many sub-fields. Students will learn about Psychological Theorists and their hypotheses. Students will also develop their own understandings and theories about the infinite mysteries locked within the human mind. Such topics explored in this class will be Psychoanalytic Psychology, Behavior Psychology, Dream Analysis, Psychological Disorders, the subconscious, and much more.

### **VIRTUAL INTRODUCTION TO SOCIOLOGY (9-10-11-12)**

1/2 Unit

*No Prerequisite.*

Sociology is a one-semester course. A systematic study of society with emphasis on major concepts of sociology and the scientific point of view in dealing with social phenomena.

### **VIRTUAL WORLD GEOGRAPHY (9)**

1/2 Unit

*No Prerequisite.*

Students will explore the connections between environments and events, between geographic regions and cultures. Human and physical geography will provide students with a

global perspective. Critical thinking and geographical skills will be examined to understand the interrelatedness between people and places. Students will relate places and cultures to their own lives. Major issues of a specific region of the world will be studied. Students will make comparisons between physical and human geography by exploring the similarities and differences across cultures. Case studies and primary sources will be used to show the relevance of geography to current events.

### **VIRTUAL WORLD HISTORY (10)**

1 Unit

*No Prerequisite.*

World history is a required survey course of the major social, cultural, economic, geographic, and political developments in Europe and the Americas from the Renaissance to modern times. The course provides the necessary background to understand our place in the world. Refer to Section 170.011 RSMO for the Constitution of the United States and the State of Missouri completion requirements.

## **VIRTUAL MATHEMATICS COURSES**

### **VIRTUAL ALGEBRA I (9)**

1 Unit

*No Prerequisite.*

Topics covered in Algebra I include: number relations, equations, polynomials, factoring, fractions, functions, inequalities, graphs, systems of equations, powers, roots, and radicals. Integrated into the curriculum, scientific calculators and graphing calculators serve as tools in solving problems.

### **VIRTUAL ALGEBRA 1A (9)**

1 Unit

*Prerequisite: Teacher Placement*

Algebra 1A is the first year in a two year sequence covering the same content of Algebra 1. Extra emphasis will be placed on remediation of prerequisite skills and problem solving in order to ensure all students can successfully master the concepts of Algebra. Topics include One-Variable and Two-Variable Data Analysis, Systems of Equations and Inequalities and Functions. Each topic will be practiced using models, tables, graphs, and algebraic methods. Algebra 1A and 1B count as two credits for high school graduation, but colleges only count them as one credit of Algebra 1.

### **VIRTUAL ALGEBRA 1B (10)**

1 Unit

*Prerequisite: Algebra 1A*

Algebra 1B is the second year in a two year sequence covering the same content of Algebra 1. Topics include Solving Quadratic Equations, Graphing Quadratic Equations, Exponential Functions, and Sequences and Functions. Each topic will be practiced using models, tables, graphs, and algebraic methods. Emphasis will be placed using algebraic concepts to solve applied problems. Students will take the EOC exam at the end of this course. Algebra 1A and 1B count as two credits for high school graduation, but colleges only count them as one credit of Algebra 1.

### **VIRTUAL ALGEBRA II (10-11-12)**

1 Unit

*Prerequisite: Geometry*

Algebra II builds on the concepts introduced in Algebra I and introduces new algebraic topics. Students will learn to use algebra to investigate, interpret, and make decisions. Topics

covered include: linear relations and functions, systems of equations and inequalities, matrices, polynomials, complex numbers, quadratic relations and functions, exponential and logarithmic functions, sequences and series, statistics and probability, and basic trigonometry. The course is designed for students who intend to pursue post-secondary education.

**VIRTUAL GEOMETRY (9-10-11-12)**

1 Unit

*Prerequisite: Algebra I, 9th graders should also have a NWEA score of 244*

Geometry is the mathematical study of the properties, measurement, and relationships of points, lines, planes, surfaces, angles, solids, and conic sections. Students will develop logical thinking and problem solving skills, integrate and maintain algebraic skills and concepts, and learn geometric concepts relevant to everyday life.

**VIRTUAL SCIENCE COURSES**

**VIRTUAL APPLIED CHEMISTRY (11-12)**

1 Unit

*No Prerequisite.*

Applied Chemistry is an introductory course that investigates the basic principles and concepts of Chemistry. In this course the study of matter and chemistry processes will be addressed. The importance and application of chemistry in everyday life will be recognized along with the chemical composition of materials, and energy changes associated with these processes. The course consists of various educational strategies, including lectures, labs, collaborative learning, and group discussions. Students may need to devote some time outside of class studying and working on lab reports.

**VIRTUAL BIOLOGY (10-11-12)**

1 Unit

*Prerequisite: Physical Science*

This introductory Biology course centers around laboratory investigations designed to explore the phenomena of life. This course is designed to provide both a terminal course for those students who choose not to pursue further Biological courses as well as a college preparatory course. This course includes animal dissection. Many of the laboratory investigations are inquiry centered. The course objectives are designed to prepare students for the Missouri required end of course (EOC) assessment.

**VIRTUAL CHEMISTRY (10-11-12)**

1 Unit

*Prerequisite: Biology and Algebra I with a grade of C or better*

The first semester is primarily a study of the atomic and molecular structure of matter. The laboratory work is devoted to synthesis and examination of the more common elements and their properties. The second semester applies knowledge gained from the first semester to understanding and predicting how these materials interact. Laboratory work involves both the qualitative and quantitative measurements of reactions and their yields. This course will provide background for students seeking science related careers or post secondary education.

**VIRTUAL EARTH SCIENCE (11-12)**

1 Unit

*No Prerequisite.*

The Earth Science class is designed to offer students an alternative to the courses in Biology and Physical Science. This course applies the basic concepts found in other science areas to specific applications that relate to the Earth. This includes: Geology, Meteorology,

Astronomy, and Oceanography. Includes many hands-on laboratory activities and electronic interactives.

**VIRTUAL PHYSICAL SCIENCE (CHEMISTRY OR PHYSICS) (9)**

1 Unit

*No Prerequisite.*

This course is designed to meet the varying needs and interests of those students who wish to pursue other course offerings in the area of physical sciences. By investigating the processes by which scientific generalizations are evolved and the practical applications of scientific principles, the student will develop an understanding of the basic concepts of chemistry, physics and earth science. A goal of this class is to develop scientific process skills. This will be done with guided and open-ended investigations and group discussions.

*\*Note\* One semester is chemistry focused and the other semester is physics focused.*

**PHYSICAL EDUCATION/HEALTH COURSES**

**VIRTUAL HEALTH (9)**

1/2 Unit

*No Prerequisite.*

This course will help the students acquire a healthy, active lifestyle that will contribute to their economic competitiveness and enhance the quality of their lives. To achieve this goal, the students will explore the following concepts: body systems, social systems, personal health and family, nutrition, consumer health, life-management skills, disease prevention and control, injury prevention and safety, tobacco, alcohol and other drugs, and environmental health.

**VIRTUAL LIFETIME FITNESS (9)**

1 Unit

*No Prerequisite.*

Exploring fitness topics such as safe exercise and injury prevention, nutrition and weight management, consumer product evaluation, and stress management, this course equips high school students with the skills they need to achieve lifetime fitness. Available as either a semester or year-long course, Lifetime Fitness encourages students to assess individual fitness levels according to the five components of physical fitness: cardiovascular health, muscular strength, muscular endurance, flexibility, and body composition. Personal fitness assessments encourage students to design a fitness program to meet their individual fitness goals.

**VIRTUAL PERSONAL FINANCE**

**VIRTUAL PERSONAL FINANCE (9)**

1/2 Unit

*No Prerequisite.*

This 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.

## **VIRTUAL ART COURSES - Fine Art**

### **VIRTUAL ART HISTORY (9-10-11-12)**

1 Unit

*No Prerequisite.*

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

### **VIRTUAL INTRODUCTION TO FINE ART (9)**

1 Unit

*No Prerequisite.*

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.

## **VIRTUAL FOREIGN LANGUAGE COURSES**

### **VIRTUAL FRENCH I (9-10-11-12)**

1 Unit

*Prerequisite: Students need to have a B average in the most recent English class. Students with a minimum of a C average may request this course with teacher and /or counselor approval.*

French I emphasizes listening, reading, speaking, writing, and culture study. Basic structures of the French language are taught to the fullest extent appropriate at this entry level. The student learns simple conversation on a variety of topics of immediate interest to the students such as home, school, family, sports, and friends.

### **VIRTUAL FRENCH II (9-10-11-12)**

1 Unit

*Prerequisite: Completion of French I with a grade of C or better. Possibly open to freshmen with previous French studies and instructor approval.*

The second year of French begins with a comprehensive review of the grammar and vocabulary from the first year course. There is increased emphasis upon comprehension, communication and cultural appreciation. More complex linguistic skills, structural patterns and vocabulary are stressed.

### **VIRTUAL FRENCH III (10-11-12)**

1 Unit

**W** *Prerequisite: Completion of French II with a grade of B or better*

French III emphasizes reading comprehension, writing skills, and oral proficiency. Students will practice skills to gain proficiency while expanding their communication skills. Basic grammar concepts are reinforced through authentic oral tasks. Students read the French versions of *The Little Prince* and *Phantom of the Opera*.

### **VIRTUAL SPANISH I (9-10-11-12)**

1 Unit

*Prerequisite: Students need to have a B average in the most recent English class. Students with a minimum of a C average may request this course with teacher and/or counselor approval.*

This course introduces the student to the sound system of Spanish. Students are introduced to all five areas of the language: speaking, writing, reading, listening, and culture. Through phonics and basic repetitions, students master standard conversational questions and answers and are able to communicate in basic, present-tense situations. Correct syntax, spelling, and mechanics are learned through sentence writing. Aural and reading comprehension are measured in each lesson. A broad overview of the culture of the Spanish-speaking world is offered. For success in this class, it is suggested that a student have at least a C in English.

### **VIRTUAL SPANISH II (9-10-11-12)**

1 Unit

*Prerequisite: Completion of Spanish I with a grade of C or better*

The second year of Spanish begins with a comprehensive review of the grammar and vocabulary from the Spanish I course. Primary linguistic skills continue to be stressed, while more complex structural patterns, wider vocabulary, and more demanding readings, dialogues, and cultural selections are introduced.

### **VIRTUAL SPANISH III (10-11-12)**

1 Unit

**W** *Prerequisite: Completion of Spanish II with a grade of B or better. It is understood that all objectives from the previous levels are reinforced. Only those with heavy emphasis will be reiterated here.*

Spanish III continues the development and expansion of the basic language skills (comprehension of the normal stream of native speech, facility in speaking, reading with dual comprehension, and writing). There is an increased emphasis upon oral proficiency in authentic situations. Reading, writing, and listening expectations are greatly increased. Students are introduced to literature from the Spanish-speaking world.

## **VIRTUAL GENERAL ELECTIVES**

### **VIRTUAL CAREER READINESS ELECTIVES:**

#### **VIRTUAL CAREER EXPLORATIONS (9-10-11-12)**

1 Unit

*No Prerequisite.*

This course prepares students to make informed decisions about their future academic and occupational goals. Through direct instruction, interactive skill demonstrations, and practice assignments, students learn how to assess their own skills and interests, explore industry clusters and pathways, and develop plans for career and academic development.



**VIRTUAL CAREER MANAGEMENT (9-10-11-12)**

1 Unit

Career Management is a high school course that assists students in their preparation for career selection. The course is designed to improve workforce skills needed in all careers including communication, leadership, teamwork, decision making, problem solving, goal setting and time management. Students complete activities that help identify personal interests, aptitudes, and learning styles. Students use results of self-assessments to determine careers that may prove personally satisfying.

**VIRTUAL CAREER PLANNING & DEVELOPMENT (9-10-11-12)**

1 Unit

*No Prerequisite.*

This course introduces students to the working world, this year-long 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 the 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 one-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.

**VIRTUAL AGRICULTURE ELECTIVES:****VIRTUAL AGRIBUSINESS SYSTEMS (10-11-12)**

1 Unit

*Prerequisite: Principles of Agriculture*

Agribusiness Systems is a course that introduces the business, management, marketing, and financial skills needed to successfully produce food, fiber, and fuel for domestic and global markets. Students learn about the components of the agribusiness system and how they interact to deliver food to our tables. They also learn about the key elements of a successful agribusiness enterprise: economics, financial management, marketing and sales, and government policies and regulations.

**VIRTUAL ANIMAL SYSTEMS (10-11-12)**

1 Unit

*Prerequisite: Principles of Agricultural*

Animal Systems is a 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.

**VIRTUAL PLANT SYSTEMS (10-11-12)**

1/2 Unit

*Prerequisite: Principles of Agricultural*

Plant Systems is a semester-length high school course that introduces students to the basics of plant biology, soil science, agriculture, and horticulture, along with the environmental management practices involved in each, including integrated pest management, biotechnology, growth techniques, and crop management. Students learn the basic parts of a plant, how plants are scientifically classified, and how they interact with water, air, nutrients,

and light to undergo the processes of photosynthesis and respiration. Plant reproduction, including pollination, germination, and dispersal of seeds, is also presented. The course concludes by looking at careers in the plant sciences which includes agronomy, horticulture, or landscape design.

**VIRTUAL PRINCIPLES OF AGRICULTURE, FOOD AND NATURAL RESOURCES (9)** 1 Unit

*No Prerequisite.*

Food has to travel from the farm to the table, and in Agriculture and Natural Resources, students will learn about all of the steps in that journey, beginning with the history of agriculture through animal husbandry, plant science, and managing our use of natural resources. In this course, you will receive a broad understanding of the subject matter, preparing you for future hands-on learning, participation in Future Farmers of America, and supervised agricultural experiences.

**VIRTUAL FOOD PRODUCTS AND PROCESSING SYSTEMS (10-11-12)** 1/2 Unit

*Prerequisite: Foods I*

Agriculture, food, and natural resources are central to human survival and civilization. The development, use, and stewardship of natural resources to create food products have a long and ever-changing timeline. This semester-length high school course that explores the history and evolution of food products, along with the processing methods that have arisen to feed an ever-growing world population. Students study specifics in a wide spectrum of food product topics, from early methods of preservation to technological advancements in packaging, regulations in labeling, and marketing trends. Students learn industry terminology in each area of the overall system, from “farm to fork” to vertical integration to smart packaging.

**VIRTUAL POWER, STRUCTURE, AND TECHNICAL SYSTEMS (10-11-12)** 1/2 Unit

*No Prerequisite.*

This semester-length high school course provides students with an understanding of the field of agriculture power and introduces them to concepts associated with producing the food and fiber required to meet today’s and tomorrow’s needs. Students are given the opportunity to explore agriculture machinery, as well as structures and technological concepts. They also learn about the historical changes in agriculture and how agriculture has changed to meet the needs of the future world population. Students are introduced to machinery, structures, biotechnology, and ethical and professional standards applicable to agriculture power.

**VIRTUAL BUSINESS EDUCATION COURSES - Practical Arts**

**VIRTUAL KEYBOARDING AND APPLICATIONS (9-10-11-12)** 1/2 Unit

*No Prerequisite.*

Keyboarding and Applications is a semester-long course that teaches students keyboarding skills, technical skills, effective communication skills, and productive work habits. Students learn proper keyboarding techniques. Once students have been introduced to keyboarding skills, lessons include daily practice of those skills. Students gain an understanding of computer hardware, operating systems, file management, and the Internet. In addition, students apply their keyboarding skills and create a variety of business documents, including word processing documents and electronic presentations.

**VIRTUAL BUSINESS COMPUTER INFORMATION SYSTEMS (9-10-11-12)** 1 Unit

*No Prerequisite.*

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.

**VIRTUAL BUSINESS LAW (10-11-12)**

1 Unit

*No Prerequisite.*

Business Law is a one-unit of credit, one-year course. The basics of everyday law concerning buying and selling, entering into contracts, business crimes, torts, functions of courts, and many other areas of life are emphasized. Business law is designed to inform students of some of their rights and responsibilities as citizens, consumers, and employees.

**VIRTUAL FUNDAMENTALS OF DIGITAL MEDIA (9-10-11-12)**

1/2 Unit

*No Prerequisite.*

Fundamentals of Digital Media is a semester-long course that presents high school students an overview of the different types of digital media and how they are used in the world today. This course examines the impact that digital media has on culture and lifestyle. The course reviews the basic concepts for creating effective digital media and introduces several different career paths related to digital media. Students learn about the tools used as well as best practices employed for creating digital media. In the course, students explore topics such as the use of social media, digital media in advertising, digital media on the World Wide Web, digital media in business, gaming and simulations, e-commerce, and digital music and movies. Students also review the ethics and laws that impact digital media use or creation.

**VIRTUAL INTRODUCTION TO BUSINESS (9)**

1 Unit

*No Prerequisite.*

In this two-semester introductory course, students learn the principles of business using real-world examples— learning what it takes to plan and launch a product or service in today's fast-paced business environment. This course covers an introduction to economics, costs and profit, and different business types. Students are introduced to techniques for managing money, personally and as a business, and taxes and credit; the basics of financing a business; how a business relates to society both locally and globally; how to identify a business opportunity; and techniques for planning, executing, and marketing a business to respond to that opportunity.

**VIRTUAL SMALL BUSINESS ENTREPRENEURSHIP (9-10-11-12)**

1 Unit

This full-year course is 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.

**VIRTUAL TECHNOLOGY AND BUSINESS (9-10-11-12)**

1 Unit

*No Prerequisite.*

This year-long course teaches students technical skills, effective communication skills, and productive work habits needed to make a successful transition into the workplace or postsecondary education. In this course, students gain an understanding of emerging technologies, operating systems, and computer networks. In addition, they create a variety of business documents, including complex word-processing documents, spreadsheets with charts and graphs, database files, and electronic presentations.

## **VIRTUAL CAREER READINESS/ EDUCATION & TRAINING ELECTIVES:**

### **VIRTUAL INTRODUCTION TO HUMAN GROWTH AND DEVELOPMENT/ CHILD DEVELOPMENT (10-11-12) 1/2 Unit**

*No Prerequisite.*

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 away with a broad understanding of all the careers that help people from birth to death.

### **VIRTUAL INTRODUCTION TO CAREERS IN EDUCATION & TRAINING (10-11-12) 1/2 Unit**

Introduction to Careers in Education and Training is a semester-long course that introduces students to the field of education and training, and the opportunities available for early-childhood through adult and continuing education. Students gain an understanding of the career options available in teaching, administrative work, and support services. They also explore the education and background experience needed to succeed in these careers. Students learn about the evolution of the modern educational system in the United States, and the policies and laws that govern educational institutions. They also discover the similarities and differences between the ethical and legal obligations of working with adults versus working with children. assistance, is also explored.

### **VIRTUAL TEACHING AND TRAINING CAREERS (11-12) 1/2 UNIT**

*Prerequisite:* Introduction to Careers in Education and Training

Teaching and Training Careers is a semester-long high school course that introduces students to the art and science of teaching. It provides a thorough exploration of pedagogy, curriculum, standards and practices, and the psychological factors shown by research to affect learners. In five units of study, lessons, and projects, students engage with the material through in-depth exploration and hands-on learning, to prepare them for teaching and training careers. Students are given many opportunities to be the teacher or trainer, and to explore the tasks, requirements, teaching strategies, and research-based methods that are effective and high-quality.

## **VIRTUAL HUMAN SERVICES**

### **VIRTUAL INTRODUCTION TO HUMAN SERVICES (10-11-12) 1/2 UNIT**

*No Prerequisite.*

This semester-long course introduces high school students to the possibilities for careers in the human services professions. Through anecdotes, lessons, and a variety of assignments and projects, students learn about the broad variety of jobs available in the human services. These begin with entry-level positions, such as associate social workers, that require a two-year Associate of Arts degree. Students also learn ethics and philosophies of the helping professions. The history of the profession, as well as the impact of the cultural, social, and economic environment on individual people, especially those who need social services

**VIRTUAL PERSONAL CARE SERVICES (10-11-12)**

1/2 UNIT

*Prerequisite: Introduction to Human Services*

Personal Care Services introduces high school students to a variety of careers in the following areas: cosmetology (including hairstyling and haircutting, esthetics, manicuring, makeup, and teaching) and barbering (including cutting and styling of hair and facial hair and manicuring for men); massage therapy, teaching body-mind disciplines (yoga, Pilates, and the martial arts), and fitness (general exercise classes and acting as a personal trainer); and mortuary science (embalming and funeral directing). The semester-long course teaches students about what each career entails and the education and training they need to become credentialed in various career specialties. In addition, about half of the course is devoted to teaching knowledge associated with the various professions, so that students can get a feel for what they should learn and whether they would like to learn it.

**VIRTUAL FAMILY AND COMMUNITY SERVICES (10-11-12)**

1/2 UNIT

*Prerequisite: Introduction to Human Services*

Family and Community Services is a high school semester-long course that introduces applications within professions related to family and community services. Students identify degree and credential requirements for occupations in this pathway and identify individual, social, historical, economic, and cultural context to increase awareness of family and community services. Students develop the abilities necessary to evaluate and identify a range of effective communication strategies and skills for establishing a collaborative relationship with others. Students also complete a variety of projects to apply their skills and knowledge. Units are divided among career fields: Social Workers, Emergency Management and Planners, Therapists and Treatment Specialists, Education and Childcare.

**VIRTUAL CAREER READINESS/ HEALTH SCIENCES ELECTIVES:**

**VIRTUAL CAREERS IN ALLIED HEALTH (11-12)**

1/2 UNIT

*No Prerequisite.*

Careers in Allied Health is a semester-long course that focuses on select allied health careers, studying a variety of different levels, responsibilities, settings, education needs and amounts of patient contact. The course includes an overview of the degree or training needed for each job, the environment one would work in, how much money the position could make, and the facts of the actual working day. Within each job type, students explore important aspects applicable to the entire field of allied health, such as behaving ethically, working as a team, keeping patients safe and free from infections and germs, honoring diverse needs of diverse patients, and following laws and policies.

**VIRTUAL HEALTH SCIENCE CONCEPTS (11-12)**

1 UNIT

*No. Prerequisite.*

This year-long course introduces high school students to the fundamental concepts of anatomy and physiology— including the organization of the body, cellular functions, and the chemistry of life. As they progress through each unit, students learn about the major body systems, common diseases and disorders, and the career specialties associated with each system. Students investigate basic medical terminology as well as human reproduction and development. Students are introduced to these fundamental health science concepts through direct instruction, interactive tasks, and practice assignments. This course is intended to provide students with a strong base of core knowledge and skills that can be used in a variety of health science career pathways.

**VIRTUAL INTRODUCTION TO CAREERS IN THE HEALTH SCIENCES (9-10-11-12)** 1/2 UNIT  
*No Prerequisite.*

This semester-long course is an overview of health careers and overriding principles central to all health professions. The course provides a foundation for further study in the field of health science. Upon completion of the course, students are able to discuss the potential career choices and have an understanding of basic concepts that apply to these different choices such as science and technology in human health, disease, privacy, ethics and safety. Essential skill development, such as communication and teamwork, are also addressed.

**VIRTUAL INTRODUCTION TO HEALTH SCIENCES (9-10-11-12)** 1 UNIT  
*No Prerequisite.*

This high school course introduces students to a variety of healthcare careers, as they develop the basic skills required in all health and medical sciences. In addition to learning the key elements of the U.S. healthcare system, students learn terminology, anatomy and physiology, pathologies, diagnostic and clinical procedures, therapeutic interventions, and the fundamentals of medical emergency care. Throughout the course, instructional activities emphasize safety, professionalism, accountability, and efficiency for workers within the healthcare field.

**VIRTUAL CAREER READINESS/ INFORMATION TECHNOLOGY ELECTIVES:**

**VIRTUAL INTRODUCTION TO COMPUTER SCIENCE (10-11-12)** 1 UNIT  
*No Prerequisite.*

Introduction to Computer Science is a year-long course designed to introduce students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. Students have creative, hands-on learning opportunities to create a computer program, a web page, design a mobile app, write algorithms, and collaborate with peers while building a strong foundational knowledge base. This course provides a solid foundation for more advanced study as well as practical skills they can use immediately.

**VIRTUAL COMPUTER SCIENCE PRINCIPLES (11-12)** 1 UNIT  
*Prerequisite: Introduction to Computer Science*

Students will explore the foundations of computer science using videos, hands-on activities, programming, investigations, and projects . They will experience much of what computer programmers do in planning, developing, testing, and refining software . Security is a key topic, and students will learn techniques for recognizing and guarding against security threats. Every unit has two to three projects, giving students the opportunity not only to write programs, but also to develop security policies, analyze real-world data, solve network

problems, plan a mobile app, and more . Interwoven throughout the course are spotlights on a wide variety of careers and roles in computer science.

**VIRTUAL INTRODUCTION TO INFORMATION TECHNOLOGY (9-10-11-12)** 1 UNIT

*No Prerequisite.*

This course introduces students to the essential technical and professional skills required in the field of Information technology (IT). Through hands-on projects and written assignments, students gain an understanding of the operation of computers, computer networks, Internet fundamentals, programming, and computer support. Students also learn about the social impact of technological change and the ethical issues related to technology. Throughout the course, instructional activities emphasize safety, professionalism, accountability, and efficiency for workers within the field of IT.

**VIRTUAL INTRODUCTION TO INFORMATION TECHNOLOGY SUPPORT AND SERVICES (9-10-11-12)** 1 UNIT

*No Prerequisite.*

This semester-long course focuses on real-world application, including common industry best practices and specific vendors that offer tools for technicians, project managers, and IT leadership. Students learn how the IT department of an enterprise supports the overall mission of the company. Students apply their knowledge of hardware and software components associated with IT systems while exploring a variety of careers related to IT support and services. Students analyze technical support needs to perform customer service and configuration management activities. Students also evaluate application software packages and emerging software. Students demonstrate and apply knowledge of IT analysis and design by initiating a system project and evaluating applications within the IT system.

**VIRTUAL INTRODUCTION TO CODING (9-10-11-12)** 1/2 UNIT

*No Prerequisite.*

Introduction to Coding covers a basic introduction to the principles of programming, including algorithms and logic. Students engage in hands-on programming tasks in the Python programming language as they write and test their own code using the approaches real programmers use in the field. Students will program with variables, functions and arguments, and lists and loops, providing a solid foundation for more advanced study as well as practical skills they can use immediately.

**VIRTUAL INTRODUCTION TO NETWORK SYSTEMS (9-10-11-12)** 1/2 UNIT

*No Prerequisite.*

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.

**VIRTUAL NETWORK SYSTEM DESIGN** 1/2 UNIT

*Prerequisite:* Introduction to Network Systems

Network System Design is a semester-long course that provides students with an understanding of computer networks and how they operate, as well as a basic understanding

of how to manage and maintain computer networks. These skills provide students with the ability to design, configure, and troubleshoot networks of all sizes. Students learn the basics of network design, including how to identify network requirements and determine proper network architecture. Students are introduced to network models. Students also learn about internet protocol and the basics of routing data on a network. Students learn about network security issues and network management. Lastly, students learn about network operating systems and their role in connecting computers and facilitating communications.

*Required materials: This course requires MS Office 2016.*

## **VIRTUAL CAREER READINESS/ ARCHITECTURE & CONSTRUCTION ELECTIVES:**

### **VIRTUAL INTRODUCTION TO CAREERS IN ARCHITECTURE & CONSTRUCTION** 1/2 UNIT

*No Prerequisite.*

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.

### **VIRTUAL CONSTRUCTION CAREERS** 1/2 UNIT

*No Prerequisite.*

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.

### **VIRTUAL ENGINEERING AND DESIGN** 1/2 UNIT

*No Prerequisite.*

This semester-long course focuses on building real-world problem-solving and critical thinking skills as students learn how to innovate and design new products and improve existing products. Students are introduced to the engineering design process to build new products and to the reverse engineering process, which enables engineers to adjust any existing product. Students identify how engineering and design have a direct impact on the sustainability of our environment and the greening of our economy. Finally, students incorporate the engineering design process, environmental life cycle, and green engineering principles to create a decision matrix to learn how to solve environmental issues.



**VIRTUAL ENGINEERING AND PRODUCT DEVELOPMENT**

1/2 UNIT

*No Prerequisite.*

This semester-long course provides an overview of the concepts of product engineering and development. Students analyze the life cycle of a product to prepare a product for distribution and for target markets. The course begins with building an understanding of the product life cycle, from the initial idea to drafting requirements to using 3-D modeling tools and other design tools. The final unit focuses on assembling the pieces within a project plan to achieve a product and evaluating the plans for a successful product launch. In addition, the course provides information about the different careers available to students interested in engineering, product development, and project management.

**VIRTUAL CAREER READINESS/ FINANCE ELECTIVES:****VIRTUAL ECONOMICS**

1 UNIT

*No Prerequisite.*

This course invites students to broaden their understanding of how economic concepts apply to their everyday lives—including microeconomic and macroeconomic theory and the characteristics of mixed-market economies, the role of government in a free-enterprise system and the global economy, and personal finance strategies. Throughout the course, students apply critical-thinking skills while making practical economic choices. Students also master literacy skills through rigorous reading and writing activities. Students analyze data displays and write routinely and responsively in tasks and assignments that are based on scenarios, texts, activities, and examples. In more extensive, process-based writing lessons, students write full-length essays in informative and argumentative formats.

**VIRTUAL INTRODUCTION TO CAREERS IN FINANCE** 1/2 UNIT*No Prerequisite.*

Introduction to Careers in Finance is a semester-long course that provides the fundamentals of the financial services industry in the United States and explores the jobs and career opportunities that the industry offers. Course units address a broad set of services in the industry including finance overview, financial services, securities analysis, investments, principles of corporate finance, banking services, risk management, and insurance.

**VIRTUAL BANKING SERVICES CAREERS**

1/2 UNIT

*No Prerequisite.*

Banking Services Careers is a semester-long high school course that provides an overview of how the banking system works, what the Federal Reserve is, and the technical and social skills needed to work in banking and related services. Students explore career paths and the required training or higher education necessary and gain an understanding of the basic functions of customer transactions (e.g., setting up an account, processing a loan, establishing a business), cash drawer activity, check collection processes, and other customer service-related transactions. This course also discusses how technology has changed banking in the 21st century. The banking industry is responsible for many of the products that we use on a daily basis, from checking and savings accounts to debit cards, credit cards, and loans.

**VIRTUAL CAREER READINESS/ HOSPITALITY & TOURISM ELECTIVES:****VIRTUAL MARKETING I (9-10-11)**

1/2 Unit

*No Prerequisite.*

This course covers the foundations of marketing with an emphasis in: personal selling, pricing, distribution, technology skills, and communication skills. Students will learn how marketers deliver value in satisfying customer needs and wants, determine which target markets the organization can best serve, and decide upon appropriate products, services, and programs to serve these markets.

**VIRTUAL FOODS AND NUTRITION I (9-10-11-12)**

1/2 Unit

*No Prerequisite.*

The purpose of this introductory course is to give students a basic knowledge of food and nutrition that can be used in everyday life. The course provides an orientation to equipment and preparation techniques to enable students to work successfully in a kitchen. Guidelines are given for buying, storing, and preparing specific types of foods. Emphasis is given to planning meals and understanding how to make healthy food choices.

**VIRTUAL CAREERS IN MARKETING RESEARCH (9-10-11-12)**

1/2 Unit

*No Prerequisite.*

Marketing research is the foundation of all marketing activities because it provides the data needed to make key strategic decisions about products, promotions, pricing, and other key organizational decisions. Careers in Marketing Research is a semester-long high school course that provides information about the process of investigation and problem analysis by using research to produce key marketing statistics that are communicated to management and used throughout the organization. This course concludes with the execution, interpretation, and presentation of marketing research.

**VIRTUAL PLANNING MEETINGS AND SPECIAL EVENTS (10-11-12)**

1/2 Unit

*No Prerequisite.*

Planning Meetings and Special Events is a semester-long high school course designed as an introduction to the study of planning meetings and special events. Being a meetings and special events planner is both demanding and rewarding. According to The Bureau of Labor Statistics employment of meeting, convention, and event planners is projected to grow 7 percent from 2018 to 2028, faster than the average for all occupations. Job opportunities should be best for candidates with hospitality experience and a bachelor's degree in meeting and event management, hospitality, or tourism management. It's not all fun and parties because a meeting coordinator is responsible for every detail of an event. Planners must know how to communicate, be empathetic, and think of their clients. It's crucial to remember that in some instances the event will be a once-in-a-lifetime occasion, so it's important to get it right.

**VIRTUAL CAREER READINESS/ GOVERNMENT & PUBLIC ADMINISTRATION ELECTIVES:**

**VIRTUAL INTRODUCTION TO CAREERS IN GOVERNMENT & PUBLIC ADMINISTRATION (9-10-11- 12)**

1/2 Unit

*No Prerequisite.*

This semester-long course provides students with an overview of American politics and public administration, including how political institutions and public management systems at the local, state, and federal levels exercise supervisory authority and maintain accountability.

Students explore the foundations of the U.S. government, the separation of powers, the federal civil service system, and the relationship between the government and state and local officials. Students learn about politics in the United States and the electoral process, political attitudes and opinions, and American political parties. Students explore the structure of U.S. federal governmental institutions, the nature of bureaucracy, and the functions of the three branches of government. Students also learn about policy making in American government, including discussions of foreign and defense policies.

### **VIRTUAL CAREER READINESS/ TRANSPORTATION, DISTRIBUTION, & LOGISTICS ELECTIVES:**

#### **VIRTUAL INTRODUCTION TO CAREERS IN TRANSPORTATION, DISTRIBUTION, & LOGISTICS (9-10-11- 12)** 1/2 Unit

*No Prerequisite.*

This semester-long course introduces students to the complicated world of commercial transportation. Students undertake an overview of the fields of transportation, distribution, and logistics, learning the differences between the fields and the primary services provided in each. Students learn how warehousing, inventory, and other associated businesses impact the economy, which includes the advantages and disadvantages of automation on employment. Students learn about the history of transportation including. Students examine the fields that serve to support and manage transportation systems. Lastly, the role of technology and technological development on transportation-related businesses is addressed.

#### **VIRTUAL CAREERS IN LOGISTICS PLANNING & MANAGEMENT SERVICES (9-10-11- 12)**

*No Prerequisite.* 1/2 Unit

Careers in Logistics Planning and Management Services is a semester-long course that provides high school students with the history of logistics and recent advances in the field. Units include supply chain management, inventory and transportation management, and safety in the workplace. Logistics is a high-growth industry and stable career choice. There is something for every career-seeker, ability, and experience level. The objectives of this course are to introduce the student to the field of logistics planning and management and to explain the career opportunities that are available in this field.