

Missouri Course Access and Virtual School Program (MOCAP)
Course Descriptions-Edmentum (Curriculum Only)

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3D MODELING

Are you interested in a career in technology? Are you curious about working in fields like virtual reality, video game design, marketing, television and motion pictures, or digital imaging? If so, this course in 3D Modeling is a great place to start as it is the foundation for all these career paths. Gain a deeper understanding of graphic design and illustration as you use 3D animation software to create virtual three-dimensional design projects. Hone in on your drawing, photography, and 3D construction techniques and develop the skills needed to navigate within a 3D digital modeling workspace. This course is an excellent introduction to careers in the fast-growing field of technology and design.

AGRISCIENCE I: INTRODUCTION

How can we make our food more nutritious? Can plants really communicate with each other? These are just two of the questions tackled in Introduction to Agriscience. From studying the secrets in corn roots to examining how to increase our food supply, this course examines how agriscientists are at the forefront of improving agriculture, food production, and the conservation of natural resources. In Introduction to Agriscience, you'll learn about the innovative ways that science and technology are put to beneficial use in the field of agriculture. You'll also learn more about some of the controversies that surround agricultural practices as nations strive to provide their people with a more abundant and healthy food supply.

AGRISCIENCE II: SUSTAINING HUMAN LIFE

Have you ever strolled past a bright green cauliflower at the market and paused to ponder its unusual color? Ever wonder why "broccolini" is suddenly a thing? Well, if you find yourself curiously questioning these, and other, peculiar vegetables and wondering about the role of agriculture in the modern world, Agriscience II is for you. Learn how science and technology are revolutionizing our food supply and promoting innovative ways to produce healthy plant-based foods, such as developing better hybrids and growing edible plants in challenging places. Food is our most essential resource; see how plant science will change the face of eating in the 21st century and give us the knowledge to continually improve our green thumbs!

AMERICAN SIGN LANGUAGE I A/B

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

The predominant sign language of Deaf communities in the United States, American Sign Language is a complex and robust language. American Sign Language 1b: Learn to Sign will introduce you to more of this language and its grammatical structures. You will expand your vocabulary by exploring interesting topics like Deaf education and Deaf arts and culture.

AMERICAN SIGN LANGUAGE II A/B

Explore the vocabulary you need for shopping, making purchases, and dealing with emergencies. Building upon the prior prerequisite course, you will progress your communication skills and foster your understanding of deaf culture. You will learn about classifiers, glossing, and mouth morphemes, as well as how to give descriptions and directions.

Building upon the prior prerequisite course, students will increase their proficiency by learning about sequencing,

transitions, role-shifts, and future tenses. Students will learn how to tell a story and ask questions, benefiting with greater exposure to deaf culture. Speed, conversations, signing skills, and cultural awareness are characteristic of this course.

AMERICAN SIGN LANGUAGE III: COMMUNITY & CULTURE

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

APPLIED MEDICAL TERMINOLOGY A/B

The Semester A course is intended to help you familiarize yourself with the medical terminology related to the human body systems. This course has 14 lessons organized into three units, plus three Unit Activities. Each lesson contains one or more Lesson Activities. This course will cover the structure of the human body systems and their functions. It will also include medical terminology related to diseases, disorders, medical procedures, and treatment for each body system.

The Semester B course is intended to help you understand the skills required to achieve success in healthcare careers. This course has 12 lessons organized into three units, plus three Unit Activities. Each lesson contains one or more Lesson Activities. This course will cover various topics like communication and professional skills, professional conduct and safety practices required in healthcare field. You will also learn how to sensitively interact with culturally diverse people. You also understand how to use technology and math skill in healthcare industry.

ART HISTORY AND APPRECIATION

Art has played a significant role in every major civilization throughout the history of man. The emergence of different art forms often reflects the values that a civilization deems important: religion, labor, love, political change, or even commerce. Since artwork and cultural values are so closely related, studying art is a compelling way to learn about the people who produced it.

ART IN WORLD CULTURES

Who is the greatest artist of all time? Is it Leonardo DaVinci? Claude Monet? Michelangelo? Pablo Picasso? Is the greatest artist of all time someone whose name has been lost to history? You will learn about some of the greatest artists while also creating art of your own, including digital art. We will explore the basic principles and elements of art, learn how to critique art, and examine some of the traditional art of the Americas, Africa, and Oceania in addition to the development of Western art.

AUDIO/VIDEO PRODUCTION I A/B

The Semester A course is intended as a practical, hands-on guide to help you understand the skills required to achieve success in modern-day careers. This course has 18 lessons organized into four units, plus four Unit

Activities. Each lesson contains one or more Lesson Activities. This course will cover various topics in audio-video production, such as camera techniques, audio techniques, lighting techniques, editing, and video assembly. The Semester B course is intended as a practical, hands-on guide to help you understand and apply the various techniques used in audio-video production. This course has 14 lessons organized into three units, plus three Unit Activities. Each lesson contains one or more Lesson Activities. This course will cover various topics in audio-video production, such as directing techniques, editing and mastering techniques, file management and delivery formats, advanced camera and lighting techniques, and techniques for providing special effects.

AUDIO/VIDEO PRODUCTION II A/B

The Semester A course is intended to help you become familiar with Audio/Video Production. This course has thirteen lessons organized into four units. Each unit has a Unit Activity, and each lesson contains one or more Lesson Activities. This course will cover the various activities performed during every stage of audio video production.

The Semester B course is intended to help you become familiar with Audio-Video Production. This course has thirteen lessons organized into three units. Each unit has a Unit Activity, and each lesson contains one or more Lesson Activities. Additionally, the course ends with a comprehensive Course Activity. This course will cover various audio-video production activities, explore various media formats and distribution, and discuss the different critiquing techniques and media ethics.

AUDIO/VIDEO PRODUCTION III A/B

The Semester A course is intended as a practical, hands-on guide to help you learn the advanced techniques used at different stages of audio-video production required during your college education and when pursuing a career. This course has 11 lessons organized into three units, plus three Unit Activities. Each lesson contains one or more Lesson Activities. This course will cover various advanced preproduction, production, and postproduction techniques. It explores the different activities performed during each stage. It also covers advanced lighting and editing techniques, and it discusses equipment management, set design, and audio mixing techniques.

The Semester B course is intended as a practical, hands-on guide to help you understand the techniques applied across various stages of audio-video production, which will be required during your college education and when pursuing a career. This course has 11 lessons organized into three units, plus three Unit Activities. Each lesson contains one or more Lesson Activities. This course will cover the various methods of mastering production techniques and advanced media-delivery methods. It explores different special effects and animation techniques. It also covers career options, portfolios, technology effects, critiquing, and copyright and labor issues.

BIOTECHNOLOGY: INTRODUCTION

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

BIOTECHNOLOGY: UNLOCKING NATURE'S SECRETS

Building on the prior prerequisite course, expand your knowledge in the field of biotechnology. Explore the discovery of antibiotics and the concerns of antibiotic resistance while also examining the agricultural, pharmaceutical, and genetic applications of biotechnology. Finally, learn about the future of biotechnology to understand the depth and breadth of this field.

CAREER EXPLORATIONS

This one-semester course is intended as a practical, hands-on guide to career exploration and planning. This course has 16 lessons organized into four units, plus four Unit Activities. Each lesson contains one or more Lesson Activities. The course ends with a Course Activity in which you will create two essential components of a career portfolio: a résumé and a cover letter for applying for an entry-level job in your chosen career.

This course covers all of the career clusters in the National Career Clusters Framework. You'll explore the career pathways within each cluster, determine the academic and skill requirements for different career pathways, and learn about the jobs available in each pathway and the work these professionals do. This course will also guide you through the process of creating an academic and career plan based on your interests, abilities, and life goals.

CAREERS IN CRIMINAL JUSTICE: FINDING YOUR SPECIALTY

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

CONCEPTS OF ENGINEERING & TECHNOLOGY

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

COSMETOLOGY I: CUTTING EDGE STYLES

We all want to look our best, but did you know there is actually a science behind cutting your hair and painting your nails? In Cosmetology: Cutting-Edge Styles, you will learn all about this often entertaining field and how specialized equipment and technology are propelling our grooming into the next century. Just like all careers, cosmetology requires certain skills and characteristics, all of which are thoroughly explored in this course. You will learn about various beauty regimes related to hair, nails, skin, and spa treatments, and discover how to create your own business model quickly and efficiently while still looking fabulous, of course!

COSMETOLOGY II: THE BUSINESS OF SKIN AND NAIL CARE

Helping people put their best face forward is a growing, vibrant industry which needs skilled and personable professionals well-versed in the latest trends and technological advances. In Cosmetology 2: The Business of Skin and Nails, experience what the day-to-day life of a cosmetologist is like. You will discover that cosmetology is much

more than knowing and applying techniques. Additionally, you will explore skin care and facials, learn how to give manicures and pedicures and how to apply artificial nails, and gain an understanding of different hair removal techniques. Discover the next steps towards launching a rewarding and creative career in cosmetology.

COSMETOLOGY III A: INTRODUCTION TO HAIR SKILLS

Cosmetology is a specialized field with a high skill set. Students taking this course will be exposed to the complexities of cosmetology by learning to perform a hair, scalp, and skin analysis. Students will also learn about hair types, face shapes, and color theory. Finally, to effectively prepare students for a career in cosmetology, color techniques with an emphasis on salon and chemical safety is examined.

COSMETOLOGY III B: WAVING, COLORING, AND ADVANCING HAIR SKILLS

Building on the prior prerequisite course, students will delve into the realm of hairstyling and cutting techniques. Students will explore varieties of wigs, extensions, and hairpieces, while also developing knowledge about shampooing and conditioning. Manual curling and the use of chemicals to curl and straighten hair are highlighted in this course as well as safety when working with chemicals. Students can expect to be well versed with a plethora of hair skills upon completion.

CRIMINOLOGY: INSIDE THE CRIMINAL MIND

Understanding the criminal mind is not easy. Why do certain people commit horrible acts? Can we ever begin to understand their reasoning and motivation? Perhaps. In Criminology: Inside the Criminal Mind, you will be given the rare opportunity to climb inside the mind of a criminal and examine the ideas and motivations at work. The mental state of a criminal can be affected by many different aspects of life-psychological, biological, sociological-all of which have differing perspectives and influences. You will investigate not only how these variables affect the criminal mind but also how the criminal justice system remains committed to upholding the law through diligence and an uncompromising process.

DIGITAL PHOTOGRAPHY II: DISCOVERING YOUR CREATIVE POTENTIAL

In today's world, photographs are all around us, including in advertisements, on websites, and hung on our walls as art. Many of the images that we see have been created by professional photographers. In this course, we will examine various aspects of professional photography, including the ethics of the profession, and examine some of the areas that professional photographers may choose to specialize in, such as wedding photography and product photography. We will also learn more about some of the most respected professional photographers in history and we will learn how to critique photographs in order to better understand what creates an eye catching photograph.

DIGITAL PHOTOGRAPHY 1B: CREATING IMAGES WITH IMPACT

Building on the prior prerequisite course, further develop your photography skills by learning more professional tips, tricks, and techniques to elevate your images. Explore various photographic styles, themes, genres, and artistic approaches. Learn more about photojournalism and how to bring you photos to life. Using this knowledge, build a portfolio of your work to pursue a career in this field!

DIGITAL PHOTOGRAPHY 1A: INTRODUCTION

Have you wondered how professional photographers manage to capture that perfect image? Gain a better understanding of photography by exploring camera functions and the elements of composition while putting theory into practice by taking your own spectacular shots! Learn how to display your work for exhibitions and develop skills important for a career as a photographer.

DRAFTING & DESIGN A/B

The Semester A course is intended to help you familiarize yourself with various aspects of drafting and design. This course has fifteen lessons organized into four units. Each unit has a Unit Activity and each lesson contains one or more Lesson Activities. This course covers the fundamental concepts of drafting and design, types of drafting tools, drafting conventions, sketching and drawing techniques, types of views and projections, and basic computer-aided design and drafting (CADD) operations.

The Semester B course is intended to help you familiarize yourself with various aspects of drafting and design. This course has fourteen lessons organized into three units. Each unit has a Unit Activity and each lesson contains one or more Lesson Activities. This course covers design and development of a prototype, different types of drawings and views, advanced computer-aided design and drafting (CADD) operations, and key professional and personal skills that are helpful in having a successful career in the field of drafting and design.

FORESTRY & NATURAL RESOURCES

Whether you are a TreeHugger or not, everyone loves the beauty and serenity of a healthy forest. Our precious woodland species not only supply us with aesthetic beauty but also play a valuable role in nature. Trees uphold a great deal of our wildlife's ecosystem while providing us humans with needed lumber, paper products, and even food. But these forests cannot protect themselves and depend greatly on humans for conservation. In Introduction to Forestry and Natural Resources, you will learn more about this meaningful relationship and how environmental policy, land use, water resources, and wildlife management all factor into current forestry issues. After better understanding these variables and how they affect the majesty of our forests, you may just be hugging these gentle giants after all.

GRAPHIC DESIGN & ILLUSTRATION A/B

Semester A is intended as a practical, hands-on guide to help you understand graphic design concepts, graphic image creation, and image manipulation. This semester has 14 lessons organized into 4 units, plus 4 Unit Activities. Each lesson contains one or more Lesson Activities. This semester covers careers you can pursue in graphic design. It also covers training and skills required for a graphic designer. In addition, this course describes how to create images using color and typography and how to manipulate images. It also guides you how to create images using design elements and principles. Finally, this course covers copyright laws and ethics related to the use of graphic design.

Semester B is designed to help you understand advanced concepts of graphic design, including the creation of graphic products such as logos, posters, and magazine covers. Semester B will also help you explore concepts of multimedia and digital photography. This course has 14 lessons organized into 4 units, plus 4 Unit Activities. Each lesson contains one or more Lesson Activities. This course will cover the advanced manipulation of images. It will guide you on how to create graphic products such as logos, posters, and magazine covers. This course also covers multimedia and digital photography. In addition, the course covers art criticism in graphic artwork, digital publishing, and the creation of graphic design portfolio.

HEALTH SCIENCE I: THE WHOLE INDIVIDUAL

We know the world is filled with different health problems and finding effective solutions is one of our greatest challenges. How close are we to finding a cure for cancer? What's the best way to treat diabetes and asthma? How are such illnesses as meningitis and tuberculosis identified and diagnosed? Health Sciences I: The Whole Individual provides the answers to these questions and more as it introduces you to such health science disciplines as toxicology, clinical medicine, and biotechnology. Understanding the value of diagnostics and research can lead to better identification and treatment of many diseases, and by learning all the pertinent information and terminology you can discover how this amazing field will contribute to the betterment of human life in our future.

HEALTH SCIENCE II: PATIENT CARE AND MEDICAL SERVICES

Are you looking for a job that's challenging, interesting, and rewarding? These three words describe many of the different careers in health care, and Health Sciences II: Patient Care and Medical Services will show you how to become part of this meaningful vocation. Promoting wellness, communicating with patients, and understanding safety in the workplace are just a few of the essential skills you will learn, all the while becoming familiar with some of the more prominent areas in the field, such as emergency care, nursing, infection control, and pediatrics. You'll learn about some of the inherent challenges faced by this age-old profession and how you can become a significant part of the solution.

INTRODUCTION TO AGRISCIENCE

In this course, students will learn more about the development and maintenance of agriculture, animal systems, natural resources, and other food sources. Students will also examine the relationship between agriculture and natural resources and the environment, health, politics, and world trade.

INTRODUCTION TO CAREERS IN CRIMINAL JUSTICE

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

INTRODUCTION TO MANUFACTURING: PRODUCT DESIGN & INNOVATION

Think about the last time you visited your favorite store. Have you ever wondered how the products you buy make it to the store shelves? Whether it's video games, clothing, or sports equipment, the goods we purchase must go through a manufacturing process before they can be marketed and sold. In this course, you'll learn about the types of manufacturing systems and processes used to create the products we buy every day. You'll also be introduced to the various career opportunities in the manufacturing industry including those for engineers, technicians, and supervisors. As a culminating project, you'll plan your own manufacturing process for a new product or invention! If you thought manufacturing was little more than mundane assembly lines, this course will show you just how exciting and fruitful the industry can be.

INTRODUCTION TO MILITARY CAREERS

This one-semester course introduces the US military and describes each of its branches, which include the National Guard, Army, Navy, Marine Corps, Coast Guard, and Air Force. Students also learn about the relationship of the military reserve to the branches of the military. The course covers non-combat careers in the military, such as military intelligence, information technology, health care, legal services, logistics, aviation, and transportation, and

other specialized careers. This course also covers enlistment and fitness requirements for military careers and personal traits that are essential for success in the military. The 16 lessons in the course provide students with both breadth and depth, as they learn about the US Military. Online discussions and course activities require students to develop and apply critical thinking skills while the included games appeal to a variety of learning styles and keep students engaged.

INTRODUCTION TO VETERINARY SCIENCE

This one-semester course is intended for you to familiarize yourself with the knowledge and skills required for a career in the veterinary industry. This course has 13 lessons organized into three units, plus three Unit Activities. Each lesson contains one or more Lesson Activities.

In the Introduction to Veterinary Science course, you will explore the history of veterinary science, and the skills and requirements for a successful career in the veterinary industry. You will also explore the physiology and anatomy of animals, learn how to evaluate their health, and determine effective treatment for infectious and noninfectious diseases. Additionally, you will learn about zoonotic diseases, and the impact of toxins and poisons on animal health.

INTRODUCTION TO VISUAL ARTS

This course is intended for you to familiarize yourself with different types of visual arts. This course has 16 lessons and 5 Course Activities. Each lesson contains one or more Lesson Activities. In Introduction to Visual Arts, you will trace the history of art and describe various art forms. You will identify the elements of art and examine the principles of design. You will analyze the parameters in evaluating and critiquing art. You will examine copyright laws and discuss the ethical use of art.

JOURNALISM: INTRODUCTION

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

JOURNALISM: INVESTIGATING THE TRUTH

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

MARKETING, ADVERTISING & SALES

As part of this course, every student has to join a student organization, such as FBLA and BPA, and be an active participant in all events and projects of the organization. As a member of a student organization, you should do the following:

- *Participate in all the activities of the student organization you choose to join.
- *Keep a record of your participation in meetings, programs, and projects.
- *Take notes about the history, purposes and goals of the student organization.

*Identify the benefits and responsibilities of membership in the student organization as a student and in professional or civic organizations as an adult.

*Use a computer to record the information above and process it to create a slide presentation.

MEDICAL TERMINOLOGY

In this course students will be introduced to basic medical language and terminology that they would need to enter a health care field. Emphasis will be placed on definitions, proper usage, spelling, and pronunciation. They will study word structure and parts, including roots, prefixes, and suffixes, as well as symbols and abbreviations. They will examine medical terms from each of the body's main systems, including skeletal, muscular, cardiovascular, respiratory, digestive, urinary, nervous, endocrine, reproductive, and lymphatic systems, and sensory organs. In addition, students will learn proper terminology for common tests, procedures, pharmacology, disease, and conditions.

MIDDLE SCHOOL 2D STUDIO ART

Close your eyes and imagine you're standing in an art studio—the smell of paint, the heat of the kiln, and the infinite creative possibilities that linger in the air. This is where art is born, and in 2D Studio Art, you'll learn how to bring your art visions to life. Whatever medium you prefer—painting, drawing, photography—this course will teach you the design elements and principles needed to create a work of art, explore your artistic inspirations, travel back in time to look at art in different cultures, and gain insight about the art of critiquing. If you've ever dreamed about making a living as an artist, this course will give you the tools and background that you need to turn those dreams into a reality!

MIDDLE SCHOOL CAREER EXPLORATIONS 1

How do you pick a career path when you're not sure what's even out there? This course allows you to begin exploring options in fields such as teaching, business, government, hospitality, health science, IT, and more! You'll align your interests, wants, and needs to career possibilities, including the required education for each. Let's find a pathway that works for you.

MIDDLE SCHOOL CAREER EXPLORATIONS 2

Imagine that it's 20 years from now. What career do you see yourself in? What do you imagine that you'll be doing? Will you be fighting forest fires or engineering the next rocket into space? With all the careers available, it can be difficult to narrow them down. In Middle School Career Exploration 2 we'll explore more careers and see what it takes to succeed. You'll learn more about what steps are needed to prepare for your career and how to compare the pros and cons of different career choices. Finally, you'll get the chance to try out parts of different careers to see if you're a perfect fit!

MIDDLE SCHOOL DIGITAL ART AND DESIGN

There are so many different types of art in this world—fine art, classical art, visual art—but the impact of digital art and design is all around us, often in ways that you probably aren't even aware of! After taking Digital Art and Design, you'll enjoy a deeper understanding and appreciation for all things digital as you explore this special genre of art found in everything from advertising to animation to photography and beyond. In this course, you'll learn

about the evolution of art, the basic principles of art and design, and the role of art in politics and society. Additionally, you will actually create your own digital art and make it come alive. Give your creative side a boost with this Digital Art and Design course!

MIDDLE SCHOOL PHOTOGRAPHY: DRAWING WITH LIGHT

Do you have vacation photos or pics of your pet that need a little editing? How about getting ready to add that new selfie you took to your social media platform? Taking photos is an art, and editing photos is a skill that many photographers seek to master. Explore how to manipulate angles and lighting, the purpose for different types of photo files, how to use different software to edit photos, and safe places you can store them. You'll be well on your way to being an editing guru when you're done with this course.

MIDDLE SCHOOL PHOTOGRAPHY: INTRODUCTION

Photographs are all around us, and each helps to tell a story. Now it's time for you to create your story through photos you learn how to take in this course. Learn the basics of using a camera, lighting, and how to choose great subjects to create magazine-worthy photos and amaze your friends and family with your skills.

NATIONAL SECURITY

Do you know what it takes to keep an entire nation safe? It not only requires knowledge of how to handle disasters, but it also demands a cool head and tremendous leadership abilities. In National Security, you will have the opportunity to learn about the critical elements of the job, such as evaluating satellite information, analyzing training procedures, assessing military engagement, preparing intelligence reports, coordinating information with other security agencies, and applying appropriate actions to various threats. Put yourself in the position of the country's decisive leaders and develop your own knowledge base and skill set necessary to meet the requirements of our nation's most demanding career.

PRINCIPLES OF AGRICULTURE, FOOD & NATURAL RESOURCES

Did you know that the world's population could be as high as 11 billion people by the year 2050? And certainly, as our population is growing, so too are our food needs. Even today, millions of people around the world experience hunger. How can we balance growing populations and keeping everyone fed? This is where the importance of agriculture, food, and natural resources comes in! Through the study of Principles of Agriculture: Food and Natural Resources, you will gain a stronger sense of how food ends up on the plate and how we can maximize the foods and natural resources the earth provides. You'll learn more about agriculture's history, animal husbandry, plant science, and natural resources, and you'll be better prepared for your part in sustaining the world.

PRINCIPLES OF AGRICULTURE, FOOD & NATURAL RESOURCES A/B

The Semester A course is intended to help you familiarize yourself with various aspects of the agriculture, food science, and natural resources industries. This course covers basic concepts in the field of agriculture, food science, and natural resources. It also covers career opportunities in these fields and the academic skills and knowledge required for a successful career in agriscience.

The Semester B course is intended to help you familiarize yourself with various aspects of the agriculture, food science, and natural resources industry. This course has 15 lessons organized into 3 units, plus 3 Unit Activities.

Each lesson contains one or more Lesson Activities. This course covers basic concepts in the field of agriculture, food science, and natural resources. It also covers career opportunities in these fields and the academic skills and knowledge required for a successful career in agriscience.

PRINCIPLES OF ARCHITECTURE & CONSTRUCTION A/B

The Principles of Architecture and Construction Semester A course is intended to help familiarize you with basic concepts of architecture and construction and a wide range of careers available in this field. Principles of Architecture and Construction Semester A begins by introducing foundational concepts of architecture and construction. This course covers architectural drawings, structure and loads, materials, and equipment used in architecture and construction. In this course, you will also review career opportunities in the field of Architecture and Construction. Finally, this course will explain the important workplace ethics required in this field.

The Principles of Architecture and Construction Semester B course is intended to help you familiarize yourself with concepts related to architecture and construction work. This course has 15 lessons organized into four units, plus four Unit Activities. Each lesson contains one or more Lesson Activities. This course explains the use of computers in architecture and construction work. It also covers concepts and careers related to urban design and green design. In addition, it explains the stages involved in creating a built environment and the aspects of managing a construction project. Finally, the course covers communication skills and safety and legal requirements needed in the field of architecture and construction.

PRINCIPLES OF ARTS, A/V TECHNOLOGY & COMMUNICATIONS A/B

The Semester A course is intended as a practical, hands-on guide to help you understand the skills required for achieving success in modern-day careers in the arts, audio/video technology, and communications cluster. This course has 19 lessons organized into four units, with four Unit Activities. Each lesson additionally contains one or more Lesson Activities. This course will cover various topics in the arts, audio/video technology, and communication career cluster.

The Semester B course is intended as a practical, hands-on guide to help you understand the skills required for achieving success in modern-day careers in the arts, audio/video technology, and communications cluster. This course has 16 lessons organized into four units, plus four Unit Activities. Each lesson contains one or more Lesson Activities. This course will cover various topics in the arts, audio/video technology, and communication career cluster.

PRINCIPLES OF HEALTH SCIENCE A/B

Principles of Health Science, semester A is the first part of a two-semester course. It is designed to help you get an overview of healthcare careers relating to therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development. You will learn about the history of health care in the United States, job opportunities in the five healthcare systems, the qualifications and skills required to work in the healthcare sector, and factors that are important in a workplace environment such as communication skills, knowledge of laws and ethics related to health care, and knowledge of health and wellness. This course has 15 lessons organized into four units, plus four Unit Activities. Most lessons contain one or more Lesson Activities. Principles of Health Science, semester B is the second part of a two-semester course. It is designed to help as a practical, hands-on guide to help you understand the human body systems and learn career skills related to health care. You will learn medical terminology, human anatomy, homeostasis, and different stages of human life. You will also learn about the personal qualities and professional skills that will help you succeed in the healthcare sector. This course has 15 lessons organized into three units, plus three Unit Activities. Most lessons contain one or more Lesson Activities.

PRINCIPLES OF INFORMATION TECHNOLOGY A/B

Principles of Information Technology, Semester A is the first part of a two-semester course. It is designed to help you learn the basics of information technology. You will learn the fundamentals of computer systems, identify basic computer hardware components, describe input and output devices and peripheral devices, and compare different types of storage devices. You'll also learn about operating systems and application software. You'll learn to install, configure, and maintain software and hardware. You'll explore the internet and the World Wide Web, and various ways to communicate using the internet while minimizing security risks. You'll discuss legal and ethical issues in information technology. You'll learn to use word processors, presentation software, and spreadsheets, and learn about techniques to extract information from a database. This course has 16 lessons organized into four units, plus four Unit Activities. Most lessons contain one or more Lesson Activities.

Principles of Information Technology, Semester B is the second part of a two-semester course. It is designed to help you go deeper in your study of information technology. You'll explore emerging technologies, multimedia applications, and computer programming concepts and programming languages. You'll learn about different types of computer networks and the need for network security and administration. You'll explore web development tools and web design techniques, and you'll learn to use HTML to design web pages and websites. Finally, you'll explore different career pathways in the field of information technology, and you'll identify the key skills and certifications you will need for these careers. This course has 14 lessons organized into four units, plus four Unit Activities. Most lessons contain one or more Lesson Activities.

PRINCIPLES OF MANUFACTURING A/B

PLATO Course Principles of Manufacturing, Semester A, is a one-semester course intended to help you familiarize yourself with the evolution of manufacturing and describes manufacturing processes and systems. This course has twelve lessons organized into three units. Each unit has a Unit Activity, and each lesson contains one or more Lesson Activities. This course will cover the history and evolution of manufacturing, manufacturing processes, engineering design, and production systems.

PLATO Course Principles of Manufacturing, Semester B, is a one-semester course intended to help you familiarize yourself with quality control systems, importance of maintenance and marketing, and identify key professional and personal skills that are helpful in having a successful career in the field of manufacturing. This course has sixteen lessons organized into four units. Each unit has a Unit Activity, and each lesson contains one or more Lesson Activities.

PRINCIPLES OF TRANSPORTATION, DISTRIBUTION & LOGISTICS A/B

This one-semester course is intended for you to familiarize yourself with the knowledge and skills required for a career in Transportation, Distribution, and Logistics (TDL). This course has 16 lessons organized into four units, plus four Unit Activities. Each lesson contains one or more Lesson Activities. This course covers the evolution of the TDL industry, various modes of transportation, and the role of the TDL industry in world trade and globalization. It also covers career opportunities in TDL. In addition, it covers workplace skills, such as positive work ethics, integrity, and self-representation. Finally, this course covers communication and interpersonal skills required to be successful in the workplace.

This one-semester course is intended for you to familiarize with knowledge and skills required for a career in Transportation, Distribution, and Logistics (TDL). This course has 12 lessons organized into three units, plus three Unit Activities. Each lesson contains one or more Lesson Activities. This course covers the basic concepts of warehousing and workplace safety. It also familiarizes you with organization management and leadership skills. In addition, this course covers the role of technology and future trends in the TDL industry.

PROFESSIONAL PHOTOGRAPHY A/B

Semester A is intended as a practical, hands-on guide to help you understand the skills required to achieve success in photography careers. This course has 14 lessons organized into four units, plus four Unit Activities. Each lesson contains one or more Lesson Activities. This course will cover various topics in photography, such as history of photography, types of photography, types of camera, camera support equipment, types of camera lenses, exposure, lighting setups, rules of composition, color photography, storing and manipulating images, copyright laws and fair use, and printing photos.

Semester B has 14 lessons organized into four units, plus four Unit Activities. Each lesson contains one or more Lesson Activities. This course will cover various topics in photography, such as camera exposure settings, portrait photography, advertising photography, architectural photography, photographic special effects, retouching photographs, restoring old photographs, analog photography, darkroom equipment and development, safety procedures, evaluating photographs, stages of production, and photography portfolio.

ROBOTICS I A/B

Robotics I, Semester A is a one-semester course that explains various concepts related to robotics. This course begins by describing the evolution and applications of robotics. This course helps you identify career opportunities and important employability skills in robotics. You will explain the importance of teamwork and describe the skills needed to work in a team. You will describe Newton's laws of motion and their applications in robotics. You will describe basic concepts of electricity, electronic circuits, Boolean algebra, magnetics, and their applicability to robotics. You will apply safety procedures and construct a simple robot.

Robotics I Semester B is a one-semester course that addresses more advanced concepts related to robotics. This course begins by describing the importance of project management in the success of a project. You will describe the steps of the engineering design process. You will identify the use of software to control robots. You will create a robotic arm. You will describe the ethics and laws related to robotics. You will create a robot using programming. This course covers how to test and maintain a robotic system. This course also covers how to create and present a proposal for a robot.

SPORTS & ENTERTAINMENT MARKETING

Whether you are watching a famous athlete make an unbelievable play or witnessing a sensational singing performance, the world of sports and entertainment is never boring. Although it may seem impossible for you to be a part of this glittery world, it's not! The Sports and Entertainment Marketing field offers careers that combine entertainment with traditional marketing, but with a whole lot more glamour. Explore basic marketing principles while delving deeper into the multi-billion dollar sports and entertainment industry. Learn how professional athletes, sports teams, and famous entertainers are marketed as commodities and how the savvy people who handle these deals can become very successful. This course will show you exactly how things work behind the scenes of a major entertainment event and how you can be part of the act.

THE LORD OF THE RINGS: AN EXPLORATION OF THE FILMS AND THEIR LITERARY INFLUENCES

The Lord of the Rings is one of the most popular stories in the modern world. In this course, you will study the movie versions of J.R.R. Tolkien's novel and learn about the process of converting literature to film. You will explore fantasy literature as a genre and critique the three Lord of the Rings films.

THEATER, CINEMA, AND FILM PRODUCTION: INTRODUCTION

Lights! Camera! Action! Theater and cinema are both forms of art that tell a story. Let's explore the enchanting world of live theater and its fascinating relationship to the silver screen. Explore the different genres of both and how to develop the script for stage and film. Then dive into how to bring the script to life with acting and directing. If you have a passion for the art of film and stage, let's bring your creativity to life!

THEATRE, CINEMA & FILM PRODUCTION

Theater, Cinema, and Film Production is a single-semester course that describes the processes of theater, cinema, and film production. The course begins by introducing theater and film and their different genres and subgenres. The course also helps you understand the creative side of theater and film production, such as screenplay writing, directing set design, acting, makeup, and wardrobe styling and costume design. In this course, you will also learn about technical aspects in theater and film productions, such as lighting, sound, and camerawork. The course also covers the pre-production, production, and post-production processes involved in plays and films. Finally, you will learn about audiences for plays and films, and how they impact these productions.

VETERINARY SCIENCE: THE CARE OF ANIMALS

Lions and tigers and bears (oh my!) Whether you want to step into the wild side of veterinary medicine or just take care of the furry dogs and cats down your street, Veterinary Science: The Care of Animals will show you how to care for domestic, farm, and wild animals and diagnose their common diseases and ailments. Learn how different veterinary treatments are used and developed to improve the lives of animals and, as a result, the lives of those people who treasure them. If you have always been drawn to the world of our furry, scaly, and feathered friends, this may be just the course for you!