

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

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Course Name	Course Description
Agribusiness Systems	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. They also learn about the key elements of a successful agribusiness enterprise: economics, financial management, marketing and sales, and government policies and regulations.
Algebra I A/B	This Algebra I course meets Missouri State Standards.
Algebra II A/B	This Algebra II course meets Missouri State Standards.
Animal Systems	Animal Systems provides students with information on livestock-management practices, animal husbandry, physiological systems, the latest scientific trends, veterinary practice, and innovations in food production. The course reviews current topics, such as advancements in technology and research, practices, regulations, legislature, and defines areas of discussion while maintaining focus on best management practices.
Business Law	This course is designed to provide students with the knowledge of some of the vital legal concepts that affect commerce and trade, after first gaining some familiarity with how laws are created and interpreted. Global commerce and international agreements, treaties, organizations, and courts are discussed to get a better sense of what it means to "go global" with a business.
Career Explorations	Career Explorations I is a course designed to give students an opportunity to explore various CTE subjects. Specifically, students learn about careers involving human-related services such as Career Management, Introduction to Careers in Health Sciences, Hospitality and Tourism Systems, Human Services, and Consumer Services.
Career Explorations	Career Explorations II is a course designed to give students an opportunity to explore various CTE subjects. Specifically, students learn about careers involving various technical fields from computers to agriculture such as Information Technology, Introduction to Information Support and Services, Introduction to Network Systems, Introduction to Agriculture, Food, and Natural Resources, and Introduction to STEM (Science, Technology, Engineering, and Mathematics).
Career Explorations	Career Explorations III is a course designed to give students an opportunity to explore various CTE subjects. Specifically, students learn about careers from business to hands-on career paths such as Introduction to Business and Finance, Introduction to Manufacturing, Introduction to Transportation, Distribution, and Logistics, Introduction to Architecture and Construction, and Introduction to Marketing.
Career Management	Career Management is a course that assists students in their preparation for career selection that 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 and use results of self-assessments to
	determine careers that may prove personally satisfying.
Careers in Allied Health	Careers in Allied Health is a course that focuses on select allied health careers, studying a variety of different levels, responsibilities, settings, education needs and amounts of patient contact. 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.
Careers in Logistics	Careers in Logistics Planning and Management Services is a course that provides high
_	school students with the history of logistics and recent advances in the field. The
Planning & Mgmt	objectives of this course are to introduce the student to the field of logistics planning
Services	and management and to explain the career opportunities that are available in this field.
Careers in Marketing Research	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 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.
	Construction Careers introduces students to the basics of construction, building
Construction Careers	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, explore regulatory agencies and explore guidelines established for protecting not only construction workers but also the occupants of a building.
Engineering and Design	This 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. 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.
Engineering and	This course provides an overview of the concepts of product engineering and
	development as students analyze the life cycle of a product to prepare a product for
Product	distribution and for target markets. In addition, the course provides information about
Development	the different careers available to students interested in engineering, product development, and project management.
English I A/B	Students engage in in-depth analysis of increasingly more complex literature, view that literature from its historical perspective, and connect it to other arts, write literary analysis, logical arguments, informational/explanatory texts, narratives, and focused research projects, engage in speaking and listening activities that use and incorporate media and technology. As a result of the reading, writing, speaking, and listening students will do in this course, they will grow their vocabulary and their understanding of how to communicate effectively by making skillful choices when expressing themselves with language.

English II A/B	Students will gain valuable cultural insight as they read and write about works depicting the social, personal, religious, and political struggles and triumphs faced by people all over the world and all through history. Students will continue to build their literacy skills by engaging in active reading, composition, speaking and listening activities, vocabulary study, and focused research projects, become critical consumers of text, students will be exposed to increasingly more complex texts to which they apply those skills. As a result of the reading, writing, speaking, and listening students will do in this course, they will continue to develop their understanding of effective communication, as well as gain a broader perspective of literature.
English III A/B	English III is a survey of American Literature and literary culture from its inception through the twentieth century where emphasis is placed on a rhetorical analysis of the literature to determine how authors achieve a particular purpose or effect. Students become critical consumers of text, while exposed to increasingly more complex texts to which they apply the skills of focused reading, composition, speaking and listening activities, vocabulary study and research.
English IV A/B	Students will engage in close-textual interaction with literature to heighten appreciation for those texts, improved critical and analytical skills in reading and writing, enhanced speaking and listening abilities, and enriched students' academic and personal vocabulary. Writing, research, and speaking assignments will continue to focus on formulating and expressing ideas and arguments about the readings. Particular emphasis is placed on gaining critical perspective on the relationship between content and form and on synthesizing ideas into clear and concise prose and presentations.
Family & Community Services	Family and Community Services is a course that introduces applications within professions related to family and community services to develop the abilities necessary to evaluate and identify a range of effective communication strategies and skills for establishing a collaborative relationship with others. 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.
Fire & Emergency Services	Emergency and fire-management services are essential infrastructure components of a community and this course provides students with the basic structure of these organizations as well as the rules and guidelines that govern pre-employment education requirements. Students gain an understanding of the goals of an emergency-management service and how they are implemented and managed, including personnel, budget, and labor-management challenges in the organization.
Food Products & Processing Systems	This course 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, marketing trends, and learn industry terminology in each area of the overall system, from "farm to fork" to vertical integration to smart packaging.

Food Safety & Sanitation	This course covers the principles and practices of food safety and sanitation that are essential in the hospitality industry for the protection and well-being of staff, guests and customers. After successful completion of this course, students are prepared to meet the requirements of state and national certification exams.
Forensics: Using Science to Solve a Mystery	Forensics: Using Science to Solve a Mystery is a course that overviews modern-day forensic science careers at work using science concepts to collect and analyze evidence and link evidence to the crime and suspects in order to present admissible evidence in courts of law. Projects in this course include simulated crime-scene investigation, actual DNA separation, development of a cybersecurity plan, and the identification of specific forensic skills used during the course of a very large murder case.
French I A/B	Students begin to develop competence in four basic skill areas: listening, speaking, reading, and writing. While developing communicative competence in French, students gain and expand their knowledge of francophone countries and cultures.
French II A/B	French II is a high school foreign language course that builds on and reviews skills and concepts taught in French I through further exposure to communication, cultures, connections, comparisons, and communities. Course materials are designed to support students as they work to gain a basic proficiency in speaking, listening, reading, writing, and cultural competency. This course gives students practice using the mechanics of the French language, acquaints them with the cultural differences of francophone countries, and helps them gain a keen awareness of their own culture.
Fundamentals of Digital Media	Fundamentals of Digital Media is a course that examines the impact that digital media has on culture and lifestyle as well as review the ethics and laws that surround digital media use or creation. Students learn about the tools used as well as best practices employed for creating digital media and 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.
Geometry A/B	Geometry focuses on the skills and methods of linear, coordinate, and plane geometry. Students will gain solid experience with geometric calculations and coordinate plane graphing, methods of formal proof, and techniques of construction.
Intro to Agriculture, Food, & Natural Resources	This course introduces students to the basic scientific principles of agriculture and natural resources as students recognize and research plant systems, animal systems, government policy, "green" technologies, agribusiness principles, and sustainability systems. Students also analyze community practice or policy development related to sustainability in agriculture, food, and natural resources.
Intro to Careers in Architecture & Construction	This course provides an overview of rapidly evolving career clusters 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 that 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.
Introduction to	Introduction to Careers in Education and Training is a course that introduces students to the field of education and the opportunities available for early-childhood through
Careers in	adult and continuing education. Students learn about the evolution of the modern
Education &	educational system in the United States, the policies and laws that govern educational
Training	institutions, and discover the similarities and differences between the ethical and legal
	obligations of working with adults versus working with children.
	Introduction to Careers in Finance is a course that provides the fundamentals of the
Introduction to	financial services industry in the United States and explores the jobs and career
Careers in Finance	opportunities that the industry offers. Course units address a broad set of services in the industry including finance overview, financial services, securities analysis,
Careers III i IIIalice	investments, principles of corporate finance, banking services, risk management, and
	insurance.
	This course provides students with an overview of American politics and public
Intro to Careers in	administration, including how political institutions and public management systems at
Government &	the local, state, and federal levels exercise supervisory authority and maintain
Public Admin	accountability. Students also learn about policy making in American government,
	including discussions of foreign and defense policies.
Introduction to	This semester-long course is an overview of health careers and overriding principles
Careers in the	central to all health professions. The course provides a foundation for further study in
Health Sciences	the field of health science.
latas to Company in	Students undertake an overview of the fields of transportation, distribution, and
Intro to Careers in	logistics, learning the differences between the fields and the primary services provided
Transport,	in each, learn how warehousing, inventory, and other associated businesses impact the
Distribution, &	economy, which includes the advantages and disadvantages of automation on
Logistics	employment. Lastly, the role of technology and technological development on
	transportation-related businesses is addressed. In this course, students analyze various career paths in terms of employment
	opportunities and educational requirements, such as hard and soft skills, certifications,
	and licensures for different pathways. This course is designed as an overview to
Introduction to	prepare students for a consumer services related career and to introduce them to
Consumer Services	specialty areas with an emphasis placed on the human services aspect (vs. corporate
	concerns) of consumer services, gain knowledge of current issues affecting various
	consumer services professions, and the impact of local, state, national and global issues
	on consumer services.
Introduction to	This course focuses on human growth and development over the lifespan, as well as
Human Growth &	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
Development	background in human growth and development from before birth, through childhood,

	into adulthood, and through death and grief while giving the student perspective and
	highlights where people in the caring professions are most needed.
Introduction to Human Services	This course introduces students to the possibilities for careers in the human services professions as they learn about 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 assistance, is also explored.
Introduction to STEM	This course introduces students to the four areas of Science, Technology, Engineering, and Mathematics through an interdisciplinary approach that will increase awareness, build knowledge, develop problem solving skills, and potentially awaken an interest in pursuing a career in STEM. Students are introduced to the history, fundamental principles, applications, processes, and concepts of STEM as they are exposed to several computer applications used to analyze and present technical or scientific information.
Keyboarding & Applications	Keyboarding and Applications is a course where students learn keyboarding skills, technical skills, effective communication skills, productive work habits, proper keyboarding techniques, 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.
Language Arts 5 A/B	This course builds on the sequential development and integration of language arts skills in four major areas—reading, writing, speaking, and listening. Special attention is placed on reading non-fiction texts where students identify text features and explain how graphic elements lead to comprehension and continue to build grammar skills in support of clear communication. Students also learn what good communication is and how to practice this in all areas of their lives.
Language Arts 7 A/B	Students will engage in a thematic study of literature that explores accounts of earth, space, and survival, delving into texts that span the genres of narrative fiction, poetry, literary nonfiction, and informational texts. They will also develop their writing skills as they focus on the six traits of writing while producing argumentative, narrative, and expository compositions. With a strong emphasis on close reading instruction, research activities, and speaking and listening tasks, this course will help students expand their understanding of literature while building twenty-first century skills.
Language Arts 8 A/B	This course is a survey of literature that explores the work of various writers of different time periods through a historical lens, studying a range of classic and contemporary literature to convey themes of American history, natural history, world civilization, and air and space. Students will also develop writing skills while producing informative, argumentative, and narrative compositions. Supported by a balance of fictional and informational texts, students will learn and practice close reading, modeled reading, writing, speaking, and listening strategies.
Law Enforcement Field Services	This course introduces students to the field of law enforcement and the local, county, state, and federal laws that law enforcement personnel are sworn to uphold. Finally, students learn about the types of crime that are commonly committed and the

	procedures, evidence collection techniques, and technological advances that law
	enforcement personnel use to investigate crimes.
Marketing & Sales	This course is designed as an introduction to the study of tourism and hospitality marketing and sales. Students are introduced to marketing theory and application of
for Tourism &	the basic principles of marketing, the relationship between marketing and other
Hospitality	functions such as advertising, sales techniques, and public relations to maximize profits
riospitality	in a hospitality organization is addressed.
Mathematics 6 A/B	This course focuses on number skills and numerical literacy, with an introduction to rational numbers and the skills needed for algebra. Students will gain solid experience with number theory and operations, including decimals and fractions, integrates ratio relationships and proportional reasoning throughout the units, as well as introduces students to geometric and statistical concepts.
Mathematics 7 A/B	This course is designed to prepare junior-high students for Pre-algebra. This course focuses on strengthening needed skills in problem solving, number sense, and proportional reasoning, and introduces students to integers, equations, and geometric concepts. Students will begin to see the "big picture" of mathematics and learn how numeric, algebraic, and geometric concepts are woven together to build a foundation for higher mathematical thinking.
New Apps: Web	New Applications is a survey course that travels from the first software programs
• •	developed to facilitate communication on the Internet, to the new generation of mobile
Development in the	and native apps that access the Internet without a reliance on a web browser. New
21st Century	Applications is also a practical course in how to develop a presence on the World Wide
Nursing: Unlimited Possibilities & Unlimited Potential	Web using WordPress and other available web application tools. Nursing: Unlimited Possibilities and Unlimited Potential provides high school students opportunities to compare and contrast the various academic and clinical training pathways to an entry-level position in nursing and to explore the growing number of opportunities for professional advancement given the proper preparation and experience. In this course, students have several opportunities to learn about the expanding scope of professional practice for registered nurses and better understand the important changes proposed in the education and ongoing professional development of nurses.
Office 2013 Apps 1	
MS Word,	Office Applications I explores the use of application skills in Microsoft® Word®, Publisher®, and PowerPoint® 2013. Students will use these applications to design,
PowerPoint, &	develop, create, edit, and share business documents, publications, and presentations.
Publisher	
Office 2013 Apps 2	Office 2013 Applications II explores the use of application skills in the 2013 versions of
MS Excel & Access	Microsoft® Excel® and Microsoft® Access®. Students will use these applications to design, develop, create, edit, and share business spreadsheet and database documents.
Personal Care	Personal Care Services introduces students to what each career entails and the
	education and training they need to become credentialed in the following areas:
Services	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).
	Physicians, Pharmacists, Dentists, Veterinarians, and Other Doctors focuses on
Physicians,	preparation for physician-level careers as it introduces the topics of diversity and the
•	move toward social and cultural skills in medicine. Degree and training requirements,
Pharmacists,	working environment, salaries, and the day in the life of that career is also covered in
Dentists, Vets, &	this course as students explore important aspects that are applicable to the entire
Other Drs	health field, such as behaving ethically, keeping patients safe and free from infections
o ther bro	and germs, and following laws and policies.
	Planning Meetings and Special Events is a course designed as an introduction to the
Planning Meetings	study of planning meetings and special events as an occupation because it is a field that
	is expected to grow 7% from 2018 to 2028. Planners must know how to communicate,
& Special Events	,
	be empathetic, and think of their clients.
	Careers in agronomy, horticulture, and landscape design are addressed in Plant Systems
	where students are introduced to the basics of plant biology, soil science, agriculture,
Dlaus Constant	and horticulture, along with the environmental management practices involved in each,
Plant Systems	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.
	This course provides students with an understanding of the field of agriculture power
D Ct 0	and introduces them to concepts associated with producing the food and fiber required
Power, Structural, &	to meet today's and tomorrow's needs. Students are given the opportunity to explore
Technical Systems	agriculture machinery, as well as structures and technological concepts, learn about the
	historical changes in agriculture and how agriculture has changed to meet the needs of
	the future world population.
	This course will introduce students to the fundamental structure of the American
	economy, the complexities of the global economy, and the principles, practices, and
	strategies associated with starting, managing, or simply working for a business.
Principles of	Students learn about everything from marketing to writing formal business
•	correspondence, from the basic structures and legal definitions of business to the
Business & Finance	operations and importance of financial institutions, and will emerge from this course
	with a thorough introductory understanding of the business world. Students will
	perform research, conduct interviews, and write papers on various topics designed to
	enrich their understanding of the American business environment.
Public Health:	Public Health: Discovering the Big Picture in Health Care is a course that discusses the
	multiple definitions of public health and the ways these definitions are put into
Discovering the Big	practice. Students explore the history, nature and context of the public health system.
Pic in Healthcare	Students also learn how to promote public health, how to coordinate a response to a

	public health emergency, explore how diseases spread, and learn about the roles of the Centers for Disease Control and the World Health Organization.
Science & Mathematics in the Real World	Science and Mathematics in the Real World is a course where students focus on how to apply scientific and mathematical concepts to the development of plans, processes, and projects that address real world problems, including sustainability and "green" technologies. This course exposes students to a wide variety of STEM applications and to real world problems from the natural sciences, technology fields, the world of sports, and emphasizes the diversity of STEM career paths.
Scientific Discovery & Development	Scientific Discovery and Development is a course that explores the history of clinical laboratory science, learning how clinical laboratories evolved and became professionalized, and how scientific discoveries and breakthroughs fueled the development of the laboratory while the sub-disciplines in biology were advancing. This course covers the three major areas in bioresearch: biotechnology, nanotechnology, and pharmaceutical research and development. Students learn what is necessary in the areas of education and credentialing with an idea of the job outlook and salaries.
Scientific Research	Scientific Research is a course that describes activities from the point of view of a professional scientist. Knowing the practical, everyday basics of scientific thinking and laboratory activity serves as a necessary first step to a career as a technician or a lab assistant.
Small Business Entrepreneurship	This 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. 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 while also learning how to develop plans for having effective business management, financing and marketing strategies.
Software Development Tools	This course introduces students to the variety of careers related to programming and software development. Students gather and analyze customer software needs and requirements, learn core principles of programming, develop software specifications, and use appropriate reference tools to evaluate new and emerging software.
Spanish I A/B	Spanish I explores the Spanish language through communication, culture, connections, comparisons, and communities. Spanish I introduces students to the mechanics of the Spanish language, acquaints them with the cultural differences of Hispanic countries, and helps them gain a keen awareness of their own culture.
Spanish II A/B	Spanish II builds upon skills and concepts taught in Spanish I, emphasizing communication, cultures, connections, comparisons, and communities. This course gives students practice using the mechanics of the Spanish language, acquaints them with the cultural differences of Hispanic countries, and helps them gain a keen awareness of their own culture.
Spanish III A/B	Spanish III builds upon skills and concepts taught in Spanish II, emphasizing communication, cultures, connections, comparisons, and communities. Students will be

	able to speak and write accurately in Spanish, as well as become acquainted with the cultural differences of Hispanic countries while helping them gain a keen awareness of their own culture.
STEM & Problem Solving	STEM and Problem Solving is a course that outlines how to apply the concepts and principles of scientific inquiry, encouraging the use of problem-solving and critical thinking skills to produce viable solutions to problems. This problem-solving course stresses analytic skills to properly format problem statements, use of the scientific method to investigate problems, the use of quantitative and qualitative approaches to construct tests, and an introduction to reviewing and interpreting statistical information.
Sustainable Service Mgmt for Hospitality & Tourism	This course aims to provide students with an understanding of socially, environmentally, and financially sustainable hospitality management. The course provides a sustainable approach to service management, incorporating the role of the customer, employee, leaders, and the environment.
Teaching & Training Careers	Teaching and Training Careers is a course that introduces students to the art and science of teaching while providing a thorough exploration of pedagogy, curriculum, standards and practices, and the psychological factors shown by research to affect learners. 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.
Technology & Business	This 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, computer networks, and create a variety of business documents, including complex word-processing documents, spreadsheets with charts and graphs, database files, and electronic presentations.
Therapeutics: The Art of Restore & Maintain Wellness	Therapeutics: The Art of Restoring and Maintaining Wellness is a course that focuses on careers that help restore and maintain mobility and physical and mental health, such as physical therapists, physical therapy assistants, occupational therapists, athletic trainers, massage therapists, dieticians and dietetic technicians, art therapists, neurotherapists, vocational rehabilitation counselors, and registered dental hygienists. Each career is explored in depth, examining typical job duties, educational and licensure requirements, working conditions, average salary, and job outlook.
Transportation & Tours for the Traveler	Transportation and Tours for the Traveler is a course where students learn about today's package tour industry, travel industry professionals, and package tour customers as they focus on the different components that go into creating a tour to get a sense of what working for a tour operator entails as well as what other careers are available in the tour industry. Taking into account technology, world events, and increased environmental awareness, students find out who tour operators must work with to create travel products and what kinds of decisions they must make in terms of meals, lodging, attractions, and, of course, transportation.