COURSE DESCRIPTIONS

2026-2027

AGRICULTURE (practical arts credits)

Agricultural Science I
A course designed to provide instruction in animal science, agricultural mechanics, career exploration, leadership, and personal development, along with supervised agricultural experiences. Students will also learn about the history of the National FFA Organization. Units may include agribusiness, natural resources, and food science. Agriculture encompasses the food, fiber, conservation, and natural resource systems, employing over 20% of the nation's workforce. An understanding of careers, leadership, and fundamental principles in the animal industry provides a solid foundation for the agricultural sector. Year-long class that also requires membership in the Hamilton FFA Chapter. Full Year. 1 credit

Agricultural Science II
A course designed for instruction in plant and crop science, soils, entomology, horticulture, and forestry, as well as additional instruction in agricultural mechanics, career development, leadership, and supervised agricultural experience. Students will also review materials about animal science from the previous year. Agriculture encompasses the food, fiber, conservation, and natural resource systems, employing over 20% of the nation's workforce. An understanding of careers, leadership, and fundamental principles in the animal industry provides a solid foundation for the agricultural sector. Year-long class that follows a full year of Agricultural Science I. 1 credit

Agricultural Communications and Leadership
This course enables students to develop the knowledge, attitudes, and skills necessary to demonstrate positive leadership in agriculture. Areas of focus include public speaking, extemporaneous speaking, impromptu speaking, written communication, meeting people, making a good first impression, achieving personal goals, teamwork, team and organizational goals, organizing groups to take action, and evaluating team and organizational actions. Semester course that pairs with Agribusiness Sales and Marketing and Management. .5 credit

Agricultural Structures/ Mechanics
This course covers topics such as agricultural machinery, small engine power, tractor power, agricultural electrification, woodwork and carpentry, concrete and plumbing, metal fabrication, soil and water management, and repair and maintenance. You will also have the opportunity to learn how to weld, make, and repair items commonly found on a farm. The course offers an opportunity to learn about tools and make projects in the shop using both metal and wood materials. Year-long course. 1 credit

Animal Science
Advanced study in animal production, management, marketing, nutrition, breeding, production records, selection, animal health, waste management, and biotechnology may be included in this course. This course examines both food and companion animals. Scientific principles in animal nutrition, breeding, selection, marketing, and waste management are essential for students interested in animals or careers related to them. Semester course that pairs with Food Science and Technology. .5 credit

Food Science and Technology
This course encompasses areas such as food chemistry and nutrition, food additives, food packaging and labeling, evaluation of foods, food microbiology, food processing, food fermentation, principles of sanitation, and quality control. Food science is currently the fastest-growing area within the agriculture industry and offers an abundance of career opportunities to our students. Food chemistry, microbiology, additives, sanitation, quality control, and processing are all essential in providing society with a safe and plentiful food supply. Semester course that pairs with Animal Science. .5 credit

Conservation and Natural Resources
This course provides students with a comprehensive understanding of the management, conservation, and sustainability of natural resources. Students will explore soil, water, wildlife, forestry, and energy resources while examining how human activity impacts the environment. Emphasis is placed on developing practical skills and real-world applications through hands-on activities, field experiences, and project-based learning. Career opportunities in conservation, environmental science, wildlife management, and agriculture will be introduced. .5 credit

Plant Science
This course introduces students to the science and management of plants used in agriculture and horticulture. Students will explore plant anatomy and physiology, growth and development, reproduction, and classification. Emphasis is placed on understanding how plants function and the factors that influence plant health and productivity. Plant Science also highlights career opportunities in agronomy, horticulture, greenhouse management, landscaping, and agricultural research. .5 credit

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ART (fine arts credits)

Introduction to TAB Studio / Art 1:
Introductory TAB studio art course will explore art history, methods, materials, techniques, the elements & principles of art through a variety of teacher guided studio projects at the start of the semester. Students will work with a variety of media including painting, drawing, sculpture and more. Students will participate in reflective critiques, learn the process for documenting their artworks, & learn where materials are located in the class, learn to care for the art material & more. Towards the second semester the art projects will start working towards being more student guided in a limited open studio environment where students will be able to design, create, & set their own individual art goals for their choice projects. Vocabulary & writing will be emphasized. Grades 9-12. Full year or semester 1 or ½ credit.

TAB Studio Art 2 - 4 & up
Pre-Requisites: TAB Studio Art 1
Teaching for Artistic Behavior (TAB): Advanced studio art class where students will learn to work like an artist in an open studio setting. The TAB classroom will be a structured studio environment with clear expectations for independent studio work through self directed learning. This class will give the artists an opportunity to freely explore various artistic media & the students will set their own goals for their art projects along the way. Available tools and art materials in the classroom will be introduced to students who can then access these materials independently to initiate and explore their artwork ideas. In this class, the student artists will decide which artistic skills, media, & media techniques they want to learn, explore, create formal artworks, & work towards eventually developing their own artistic style. Students will document the artistic process in a digital portfolio that shows the different phases of the art: planning, experimentation, practice, learning, research, critiques, creation, reflection & the finished artwork. Mini Lessons will be taught individually or to the whole class to introduce techniques, media, history, & more. Vocabulary & writing will be emphasized. Grades 9-12. Full year or semester. 1 or 1/2 credit.

BUSINESS AND COMPUTERS

(practical arts credits)
Intro to Business
This course will introduce students to the world of business and help prepare you for the economic roles of consumer, worker, and citizen. This course will also serve as a background for other business courses you may take in high school and in college. This course introduces students to economics, entrepreneurship, legal aspects and issues, marketing, human resource management, finances and various computer applications. Required class for ninth-grade students. One semester to be taken in conjunction with PE. ½ credit.

Introduction to Computer Programming
This course will introduce students to the world of computer programming. This course will also serve as a background for other computer science courses you may take in high school and in college and prepare you for future employment. This course is aimed at students with little to no computer programming experience. Grades 10-12. One semester. ½ credit.

Personal Finance
This one-semester course is based on the Missouri Personal Finance Competencies and presents essential knowledge and skills to make informed decisions about real world financial issues. Students will also learn to apply decision-making skills to evaluate career choices and set personal goals. The course content is designed to help the learner make wise spending, saving, and credit decisions and to make effective use of income to achieve personal financial success through the use of Ramsey Education curriculum. One semester. 1/2 credit. Grade 10.

Accounting I
This course involves the study of recording, presenting, and interpreting financial transactions. For those interested in a business career, it is advisable to take this course as a sophomore/junior/senior. Full year. 1 credit.

Intro to Entrepreneurship
This course is designed to help students develop an understanding of skills and resources needed to own or create a business. Instruction includes a general overview of American business, forms of business ownership, personnel management, labor-management relations, public and human relations, taxation, and government regulations. The use of computers and software as tools in making business decisions in areas such as accounting, sales analysis, and inventory control is also introduced.
Grade 11-12 One semester. 1/2 credit

Business Communications
Business Communication provides students with communication principles, concepts, and techniques which are essential components for effective organizational behavior in oral, written, and nonverbal communication situations. 1/2 credit/ one semester.

Sales
Gives students the opportunity to develop and deliver allows students to showcase their ability to effectively sell a product or service of their choice. Members deliver an interactive presentation that highlights their sales techniques, product knowledge, and ability to engage and persuade potential customers. This class helps students build student confidence, organize

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ideas, and strengthen their verbal communication skills through live presentations. Students will also learn sales/public speaking fundamentals in this course. Any Grades. One semester ½ credit

Business Mass Media/ Communications
This course focused on the use of technology and Journalism in the business field for modern storytelling of accurately written information through the use of the internet, video, and audio (i.e. broadcasting) Students will be responsible for reporting on school events and communicating the outcome to the school community. Full year. Grades 11-12.

Social Media Strategy
Social Media Strategies allows students to develop and present a comprehensive marketing campaign using multiple social media platforms. Students demonstrate their ability to engage audiences, create cohesive content, and analyze platform performance through a strategic and creative presentation. Students may use this course to work on FBLA projects for competition. .5 Semester, .5 credit, All grades.

Website Design
This course deals with the use of Web programming languages (HTML, JavaScript, etc.), graphics applications, and other Web authoring tools to design, edit, launch, and maintain Web sites and pages. Such topics as Internet theory, Web page standards, Web design elements, user interfaces, special effects, navigation, and emerging Web technologies will be included. Prerequisite: Computer Applications. Full year. 1 credit.

Computer Science
Students will discover introductory computer science topics with an emphasis on computational thinking and problem solving. Students will be empowered to create authentic artifacts and engage with computer science as a medium for creativity, communication, problem solving, and fun. Students will create their own websites, apps, and games. 1/2 credit. One semester.

Yearbook
Students learn and use desktop publishing skills to design, edit and produce the school yearbook. Photography, InDesign, and Photoshop are studied. Digital cameras will be used. The senior video is also produced in this class. This class does not count as a communication course for college entrance.
1 credit/ Full Year Grades: 11-12

Career Readiness
This course is designed to help students master skills in the areas of marketing themselves, conducting surveys on potential careers, and learning about each of the Missouri Career Clusters.. Students will craft high-quality applications, find a career, and attend a career fair as part of this course. Other topics include financial aid, researching post-graduation options, and establishing career goals. .5 Semester .5 Credit 10th

Sports Marketing and Management
Students will cover a broad area of marketing basics while diving deep into sports and entertainment marketing skills. This course has students cover all the newest trends in the marketing world. The class will explore the basic concepts and also apply a simulation project where students will actually prepare a sports and entertainment marketing plan. Each student will develop leadership and problem-solving skills, understand the importance of making ethical decisions, develop public speaking and presentation skills, proper social and business etiquette, analyze possible solutions to specific business problems, develop business leadership skills, and develop an increased understanding of the business world.
½ credit 1 sem, 9-12.

Graphic Design
This course is a hands-on deep dive into the world of visual communication. You will learn the "Big Three" of the design world—Photoshop, Illustrator, and InDesign—while discovering the secrets of color psychology, typography, and layout.This course is for the future creative directors and digital entrepreneurs. We move beyond basic art and into the world of Strategic Branding. You'll learn how to build a visual identity from the ground up—choosing a color palette that hits the right mood, selecting typography that speaks to an audience, and creating a cohesive look across web platforms. ½ credit for 1 semester.

Cyber Security
Students will step into the shoes of both a "Blue Team" (defender) and a "Red Team" (attacker) to understand how vulnerabilities are exploited and, more importantly, how to close them. From securing personal devices to analyzing global network threats, this course prepares students for high-demand careers in information technology and digital forensics. ½ credit for 1 semester.

Information Technology
Information Technologies is a semester-long course where students will develop practical skills in areas such as computer hardware and software, internet safety, digital communication, and basic troubleshooting. Students will also learn to use common productivity tools including word processing, presentations, spreadsheets, and cloud-based collaboration platforms. By the end of the semester, students will have a stronger understanding of how technology works, how it impacts modern society, and how the skills learned in this course connect to future careers.

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Computer Applications
This course is designed to equip students with the foundational and advanced skills necessary to navigate the Microsoft Office Suite effectively. Learning modules will include Word, Excel, Powerpoint, & Outlook. ½ credit and 1 semester.

Broadcasting
Students will learn the basics of broadcasting, ranging from comprehensive training in producing, writing, and performing for radio, television, and digital media, including live events and social media. Students gain hands-on experience with cameras, editing software, and studio equipment, focusing on storytelling, voice, and production techniques. Typical courses cover audio/video production, media law, and performance. .5 Semester Grades 9-12

Intro to Business Management
This course provides a high-level look at the "inner workings" of a successful organization. Whether you dream of launching your own startup or climbing the corporate ladder, this class explores how businesses make decisions, manage people, and stay profitable in a competitive global market. ½ credit for 1 semester.

Business Psychology
introduces students to the fascinating intersection of human behavior and the business world. This course explores how psychological principles are applied to improve productivity, employee satisfaction, and organizational effectiveness. Students will move beyond theories to analyze real-world scenarios, examining topics such as consumer motivation, team dynamics, leadership styles, employee selection, and workplace culture. This course is ideal for students interested in psychology, marketing, human resources, or management. ½ credit 1 sem.

E-Commerce/ E-Business
This course provides a comprehensive foundation in the technology, consumer behavior, and business models that drive the digital economy. Students will explore how internet-based technologies disrupt traditional markets and learn how to design, launch, and scale a successful digital enterprise.½ credit for 1 semester

Economics
Students will develop analytical methods to evaluate public policy, market trends, and personal financial decisions through both micro and macro lenses. Students will learn from an individual perspective (micro) and a global perspective (macro) by analyzing everyday decision-making as a consumer. ½ credit for 1 semester.

Project Lead the Way

1st Course--Introduction to Engineering Design
The major focus of the IED course is to expose students to a design process, professional communication and collaboration methods, design ethics, and technical documentation. IED gives students the opportunity to develop skills in research and analysis, teamwork, technical writing, engineering graphics, and problem solving through activity-, project-, and problem-based (APPB) learning. Full year. 1 credit.

Project Lead the Way
2nd Course-- Principle of Engineering
Through problems that engage and challenge students, explore a broad range of engineering topics including mechanism, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. Full year. Grades 10-12. 1 credit.

Project Lead the Way
3rd Course—Principle of Digital Electronics
From smartphones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices. Full year. Grades 11-12. 1 credit.

FOREIGN LANGUAGE

Note: These courses may not be used for communication arts credit.

Spanish 1
A comprehensive overview of the Spanish language with emphasis on vocabulary, verb conjugations and culture activities. Grades 9-12. Full year. 1 credit.

Spanish 2
A continuation of Spanish 1. Prerequisite Spanish 1. Grades 10-12. Full year. 1 credit.

Spanish 3
A continuation of Spanish 2. Prerequisite Spanish 2. Grades 11-12. Full year. 1 credit.

Spanish 4
A continuation of Spanish 3. Prerequisite Spanish 3. Grade 12. Full year. 1 credit.

COMMUNICATION ARTS

(communication arts credits)
LA 1

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This is a required communication skills class for ninth grade which emphasizes grammatical studies, literary genres, and various writing skills. Instruction also emphasizes vocabulary along with reading and evaluating literary works. Full year. 1 credit.

LA 2
This is a required communication skills class for tenth grade, which emphasizes student writing for a variety of topics utilizing diverse sources. Writing instruction emphasizes vocabulary, organization, development, and support in a written work and acceptable usage and mechanics. Students will read, evaluate and respond to literary works. Prerequisite LA 1. Full year. 1 credit.

Communications III
This class helps prepare students for the workplace as well as college in the areas of verbal, non-verbal, and written communication. Reading, writing, and presentation skills for workplace readiness will be emphasized. Instruction will also include vocabulary along with reading and evaluating literary and informational works. Juniors must take. Juniors must take this two-semester course or College Prep English. 1 credit for the full year.

Communication IV
This course builds on skills developed in Communication III and is designed for seniors. Computer coursework and presentations are a major part of this course. A career portfolio is a required project in this class. Prerequisite Communication III or College Prep English. 1 credit for full year.

College Prep English (LA III)
This course is designed to strengthen and advance the student's knowledge of grammar, composition, vocabulary, and literature. A major emphasis is on writing skills and there will be an in-depth study of American Literature. Juniors must take this course or Communication III. Also, for seniors with teacher's consent. Prerequisite LA 2. This class is recommended for college-bound students. Full year. 1 credit.

LA 4 (Dual Credit)
A dual credit (high school and college credit) class for college-bound seniors designed to enrich integrated skills, literary analysis, and composition. Emphasis on MLA documentation. A research paper will be done. Presentation and computer software emphasized Prerequisite successful completion of LA III. For grade 12 only. Full year. 1 high school credit. Optional--6 college hours. Students who want the college credit must have at least a 3.00 GPA and/or a 17 on the English section of the ACT.

Speech (dual credit)
This course helps the student develop poise and self-confidence before a listening audience. Some UMKC tests and quizzes will be used. Recommended for all college-bound students. Grade 12. One semester. ½ high school credit. 3 hours optional college credit must have at least a 3.0 GPA.

Women in Literature- Alternating years
This course provides a generalized overview of literary impact of the works by and about women in a variety of literary genres.
1/2 credit/semester. Grade 9-12

Contemporary Literature—Alternating years
This is a world survey course of twentieth century poetry, short stories, and novels. Grades 9-12. Prerequisite LA 1. One semester. ½ credit

Contemporary/ Genre Writing—Alternating years
Students will learn about and write in a variety of contemporary medium. for example, blogs, web pages, email, wordless, and video essays. Grades 9-12. Prerequisite LA 1. One semester. ½ credit

Science Fiction/ Fantasy—Alternating years
This course will survey the popular genre of science fiction/fantasy literature. Short stories and plays of notable science fiction authors will be studied. A fantasy novel will be studied in class. Grades 9-12. Prerequisite LA 1. One semester. ½ credit.

Creative Writing:
Creative Writing is designed for students to create original forms of descriptive writing, poetry, drama, and fiction. Vocabulary development, creative writing techniques, and skills are explored.
1/2 credit/semester. Grades 9-12

Writers Workshop/ Debate
Provides instruction in the fundamentals of formal and informal debate and public speaking. The course also includes an emphasis on research, outlining, argument structure, speech writing and Parliamentary procedures. Other genres of writing are explored, practiced and shared. Grades 9-12
One semester. ½ credit.

MATH
(math credits)

Pre-Algebra
Students in Pre-Algebra will explore basic algebraic concepts in preparation for Algebra 1. These concepts include multi-step equations, inequalities, and linear functions through tables, graphs, and equations. Full year. 1 credit.

Algebra I

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Topics studied in Algebra I provide students with the foundational skills to problem solve, think critically, and prepare for success in future high school mathematics courses. Algebra I topics include recognizing and developing patterns using tables, graphs, and equations. Students will perform operations on algebraic expressions and apply mathematical properties to algebraic equations. Additionally, students will explore linear and nonlinear relationships using equations, graphs, and tables. Students will also practice solving systems of equations and manipulating linear, quadratic, and exponential functions.
Grade Levels- 9th and 10th. Grade Prerequisites- 8th Grade math or test out

Geometry—This course explores geometric principles and foundations of multiple structures including triangles, quadrilaterals, and circles. Students will analyze lengths, areas, and volumes of both 2D and 3D figures and be able to construct polygons using tools such as a compass and a protractor. Prerequisite Algebra 1. Grades 9-12. Full year. 1 credit.

Algebra 2
This course will prepare students for College Algebra and includes instruction on topics such as polynomials, functions, exponentials, and matrices. Algebra 2 will also provide an introduction into logarithms. Algebra 2 reinforces trigonometry concepts and provides practice with statistics. Real-world problems and applications for other subjects like physics and chemistry are also included. Recommend at least a "C" average in Geometry. Grades 10-12. Full Year. 1 Credit.

Consumer Math Course Description
Consumer Math explores the use of mathematics through a hands-on approach. Students will learn how math can be used in their day-to-day lives. Topics may include budgeting, researching math related careers, using math in construction, and other topics.
Grade Levels- 10th, 11th, 12th
Prerequisites- Algebra 1, (Applied Geometry also recommended, but not required)

Applied Geometry
This course will address geometric topics as they are used in the real world. Students will learn to apply and calculate circumferences, area, volume and the Pythagorean Theorem. Grades 11-12. Prerequisite Algebra I. Full year. 1 credit.

College Algebra (dual credit)
College Algebra is a dual-credit (high school and college credit) course dealing with polynomial functions and graphical methods. A graphing calculator will be used to enhance study. The class will be taught as a college-level math class. Prerequisite Algebra 2 with at least a "C" average. This is a Tier II weighted class. Grade 12. Full year. 1 high school credit. 3 hours college credit with paid tuition. Students must have at least a 3.00 cumulative GPA to enroll for college credit.

Trigonometry/Statistics
Trigonometry with Algebra explores real-life problems using the six trigonometric functions, their identities, right triangle trigonometry, radian measure, and graphing. Algebra topics include advanced quadratic functions and graphing. Recommend Algebra 2 with at least a "C" average. This is a Tier II weighted class. Grades 11-12. One semester. ½ credit for Trigonometry and ½ credit for Statistics.

Advanced Algebra I/ Geometry
Topics studied in Advanced Algebra I/Geometry provide students with the foundational skills to problem solve, think critically, and prepare for success in future high school mathematics courses. The first semester will focus on Advanced Algebra I topics that expand on prior knowledge of recognition and development of patterns using tables, graphs, and equations. Students will perform operations on complex algebraic expressions and apply mathematical properties to algebraic equations. Additionally, students will explore linear and nonlinear relationships using equations, graphs, and tables. Students will also practice solving systems of equations and manipulating linear, quadratic, and exponential functions. The second semester will explore geometric principles and foundations of multiple structures including triangles, quadrilaterals, and circles at an accelerated rate. Students will analyze lengths, areas, and volumes of both 2D and 3D figures and be able to construct polygons using tools such as a compass and a protractor. Prerequisite: Algebra 1 as an 8th Grader (Advanced Mathematics Track). Grade Level- 9th Grade. Full year. 1 credit.

MUSIC **(fine arts credits)**

Band
Marching band practices daily during football season and performs in Band Ensemble competitions. Some extra rehearsals will be required as needed. The band will perform at concerts in and out of school, and practices are mandatory. Soloists/ensembles shall be chosen upon the discretion of the director.
Prerequisite: must complete beginning band and be able to read music. Grades 9-12. Full year. 1 credit.

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Choir
Choir is a large vocal ensemble in which individual singing is required. Sight singing and ear training are emphasized. The choir will perform concerts in and out of school and participation is required. Soloists/small ensembles shall be chosen upon the discretion of the director. Grades 9-12. Full year. 1 credit.

Music Appreciation
Music Appreciation will take you on a journey through many forms of music. Genres covered will include the transformation of early blues to rock and roll all the way to hip hop. Studies will include open discussion, listening examples, and various projects. Prerequisite: Have an open mind about all art forms of music. Grades 9-12. One Semester. ½ credit.

Music in Film
Students will develop an appreciation for and an understanding of a variety of musical experiences through group activities as well as independent studies. Students will advance their musical knowledge through studies into the history and development of opera, musicals, movies, and the work behind the scenes that goes with it. Students will apply their studies to hands-on activities. With these, students will continue to foster and grow the skills necessary for long-term success. Grades 9-12. ½ Credit. One semester.

Musical Theater
Students will be led in class discussion about many classic musicals as well as view each of these musicals throughout the semester. Theatrical elements of music will also be discovered during this class. Grades 9-12. One Semester. ½ credit.

PHYSICAL EDUCATION (PE credits)

Health (PE)
This is a required course for graduation for students entering high school during the 2006 school year and after. A basic study of the concepts necessary for students to develop a healthy and productive lifestyle. Grades 9-12. One Semester. ½ credit.

Conditioning
This course is for the student athlete. The objective is meant to enhance athletic performance through weightlifting, plyometrics, aerobics, etc. Grades 9-12. Full year. 1 credit.

Physical Education
This course is aimed not only at physical wellness, but at the whole person through physical activity. This course may require some outdoor activities. Each student is required to provide gym shoes/shorts/t-shirt. Refer to the student handbook regarding acceptable excuses for not participating in PE. Grades 9-12. Full year. 1 credit.

SCIENCE (science credits)

Physical Science
This is a required course for all ninth-grade students. This course is the study of matter and energy. Grade 9. Full year. 1 credit.

Applied Science II
These semester courses use everyday life science information and applies the concepts to situations encountered in daily life. Laboratory work is required and current event issues will be covered. Grades 10-12. Full year. 1 credit.

Biology 1
This course explores biological concepts from the cellular level to the interactions of organisms. This course will prepare a student for the Biology end-of-course exam. Topics will include cell structure and function, DNA and protein synthesis, genetics, cell division, body systems, natural selection, cellular energy, and ecology. Prerequisite Physical Science. Grades 10-12. Full year. 1 credit.

Biology 2
This course continues the concepts covered in Biology 1. In each unit, we begin by discovering a new phenomenon that is based around an organism. That organism tends to take the lead in that unit with supporting organisms as well. We will observe interactions, collect data, and apply the wide variety of scientific concepts that make up biology (DNA, Energy Transfer, Cell Division, Homeostasis, Natural Selection, and Comparative Anatomy just to name a few!). In all units we also look at the impact humans have made on the species, both positive and negative. Prerequisite Biology 1 with at least a C average. Grades 11-12. Full year. 1 credit.

Chemistry (dual credit)
This course involves the study of the behavior and properties of matter. Students will focus on the chemical and physical properties of the elements. A strong knowledge of algebra is necessary. Prerequisite Algebra 1 and Geometry with at least a C average. Students must have a 17 on the math section of the ACT to apply for dual credit. Grades 10-12. Full year. 1 credit.

Forensics I and II
Forensics is the application of science to the law. Step into the role of a crime scene investigator and debunk

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the myths of television shows depicting crime scene investigations. Numerous scientific strategies and skills are used with technology, inquiry, life, earth, and physical sciences to solve crimes. Lab based activities require analyzing data to complete lab reports. Students will demonstrate their skills by solving various crimes in class and will be required to present projects to the class. Prerequisite- Biology I. Grades 11-12. 2 Semester Courses. .5 credits per semester.

Anatomy/Physiology
This course will provide an in-depth study of the structure and functions of the different organ systems in the human body. Tissues, anatomical language, and body systems are significant points of emphasis. A cat dissection will correspond with the muscular system unit for the 4th Quarter. This dissection is required. Prerequisite: Biology 2 or Chemistry with at least a B average. Grade 12. Full year. 1 credit.

Intro to Health Sciences (dual credit)
This course introduces students to career options in health sciences. Students will explore basic concepts related to understanding one's role and scope of practice, professional responsibilities, and education and credentialing requirements for various careers in health. The course will explore basic concepts required by any health professional including history, safety, ethics, interpersonal skills, general well-being, as well as special skills and aptitudes required in various health career clusters. Prerequisite: Biology with at least a B average. Grades 11-12. 2 Semester Courses. .5 credits per semester.

Medical Terminology (dual credit)
This course is designed to provide the student with a foundation in medical terminology and the components of health records. Course content will include how medical terms are formed; how medical terms are applied to organs, body systems and pathological conditions; how common medical abbreviations are used; and how health records are organized and compiled. Prerequisite: Biology with at least a B average. Grades 11-12. 2 Semester Courses. .5 credits per semester.

SOCIAL SCIENCE

(social science credits)
American History
This is a state required course that all students must pass for high school graduation. The course examines the development of America from 1865 to the present. Class participation is emphasized to achieve a better understanding of historical development. Students must take and pass a Missouri Constitution test to graduate. Grade 9. Full year. 1 credit.

World History
This class is to teach the importance of the history of the world from the Ancient world to the present. We must know the roots of our society and how our lifestyle comes from that of the past. In this class, we will learn how people from the past have shaped our world around us and we can appreciate the world around us. 10th grade
Full year. 1 credit.

American Government
This state required course focuses on our federal, state, and local government systems. The three branches of government and the Constitution are emphasized. Students must take and pass a US Constitution test to graduate. Grade 11. Full year. 1 credit.

World Cultures and Geography
This class will teach the importance of cultures from around the world and geography. We will explore the differences in culture, economies, regions and religions. 11 -12 grade. One semester. ½ credit.

Criminal Justice
This class is to teach the importance of the Criminal Justice system. This is to give an introduction into the roles and goals of the system. We will explore the topics and work through some of the issues that are going on in the system. Grades 10-12. One semester.. ½ credit

Movie History
This class is to teach the importance of the history of the United States through movies! We will look at the historical value of movies and are they an effective tool for what happened or at least what the world was like in the time periods. Recommended Grades 10-12. One semester. ½ credit.

Sports History
This class is to teach the importance of the history of sports. From the weird to the fundamental. We will learn about, play, and experience the details of sports through the classroom setting.
Grades 10-12. One semester. ½ credit.

Psychology (SO121) (Dual Credit)
This is a weighted semester course offered to seniors. The scope and sequence of study will focus on the process of thinking critically about our world, behavior and its origins, adolescence, sensation, perception, motivation, learning, memory, and emotions. This course is centered around class discussion, participation, and a case study. There is no prerequisite for this course. Grade 12. One semester ½ high school credit. 3 hours college credit available.

College America History (Dual Credit)

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The purpose of this course is to analyze the development of United States history to include the following themes: economic, societal, governmental, religious, cultural, diplomatic, sectional, and technological. This course will examine why and how these themes have changed our past and contribute to the present and future of American society. Not only do we study the past to not repeat our failures in history, but we also study our successes so that we may build a better future. Grade 12. One semester ½ high school credit. 3 hours college credit available.

Contemporary Issues/ Current Events
This course examines major issues of the world as they occur. Recommended Grades 10-12. One semester. 1/2 credit.

Greek and Roman History
This class is to teach the importance of the history of Ancient Greece and Rome and their connections to the modern day. We will look into the connections the Greeks and Romans made to the remainder of the world and how those connections brought forth new developments throughout the world. 10-12 grade ½ credit.

Missouri History
This class is to teach the importance of the history of the state of Missouri. We will look into the geography of Missouri, the beginnings of the state, and why Missouri is so important to the history of the United States. 10-12 grade ½ credit

Anthropology
This class is to teach the importance of Anthropology. Anthropology is the study of all humans at all times and all places.We are going to take a look at what it means to be a human and how we got here. We will also be taking part in a book to look at the important items in human history. 10-12 grade ½ credit.

TRADE & INDUSTRIAL TECHNOLOGY (VoTech)

(practical arts credits)
Agriculture & Outdoor Equipment Technology
Collision Tech (Auto Body)
Auto Services Tech (Auto Mechanics)
Electronics
Carpentry
Hospitality & Tourism
Industrial Welding
Health Occupations
Child Care
Career Independence
These four-unit programs are located at the vo-tech school in Chillicothe. Sophomores are introduced to the programs in the spring prior to registration. Students can earn college credit by completing a two-year trade and industrial tech program. Enrollment is limited. Grades 11-12.

SPECIAL COURSES

Transitions I
Transitions I is a class for freshmen IEP students and is designed to help them adjust to the move from middle school to high school. The following areas will be addressed: study skills, organization skills, note taking skills, test taking skills, attitudes, and goal setting. Students will begin preparing to lead their own IEP meeting. Grade 9. Full year for one credit.

Transitions II
Transitions II is a class for sophomore students and is designed to help them prepare for post-high school transition. Students will discuss issues that young men and women face in the workplace and society in general. Careers, attitudes, financial planning, and parenting are a few of the topics to be discussed. Other topics will be addressed as the students bring up the need. Students will prepare and conduct their IEP/Transition meeting. Grade 10. Full year for one credit.

Transitions III
Transitions III is a class for juniors and is a self-advocacy course designed to help students prepare for post-high school living. They will practice interviewing techniques and compile a useable employment portfolio. They will also participate in an entrepreneur program. Other topics will be discussed as the need arises. Students will prepare and conduct their IEP/Transition meeting. Grade 11. Full year for one credit.

Transitions IV
Transitions IV is a class for seniors and is designed to provide students with useful tools to obtain a job. Students will explore further careers, job opportunities, explore colleges, and work skills. They will also participate in an entrepreneur program. Other topics will be discussed as the need arises. Students will conduct their final IEP/exit meeting. Grade 12. Full year for one credit.

Students Working as Teachers (SWAT)
SWAT students must complete an application to be submitted the semester before their enrollment. For example, a student wanting to enroll for first semester 2024 (August-December 2024) must submit an application in the spring of 2024 prior to registration. Up to 9 hours of dual credit from NWMSU will be

COURSE DESCRIPTIONS

available to juniors and seniors. The SWAT program will focus on assisting teachers in a classroom by tutoring students and actively becoming a part of the educational process for one period per day. Sophomore students will be placed only at the elementary level. Juniors can be placed in middle school or elementary. Seniors can be placed in middle school or elementary; placement in the high school is at the discretion of administrators and may only occur if a full year of SWAT has already been completed. Attendance is required, students dropping below 95% attendance (with allowances for extenuating circumstances) will result in removal from the program and a grade of D- being earned for the semester. Students must have good communication skills and the ability to self-direct. 1 semester. ½ credit.

Teacher Assistant
Teachers may accept a student as a "TA." All students must have prior approval by the teacher. A student must schedule an entire year with the teacher to receive ½ credit. Students can schedule only one TA. Grades 11-12 only.

ACT Prep
This semester course is designed to help students prepare for the ACT. Students will also practice their skills with actual retired ACT tests and other resources. Requirement of this course will be to take the ACT in October/December unless conflicting with another school activity. Grade 12. One semester. ½ elective credit.

Supervised Occupational Experience
Senior Work Study
Students enrolled in the work study program will have the option of receiving high school credit for work they do outside of school. This option is for seniors only who have at least 22 credits at the end of their junior year. Students must have 90% attendance to participate. Students must be enrolled in regular classes at least half-time, and one of these classes must be a vocational business class. Students must be at their job if they are not at school during regular school hours. See the principal for more details.

Leadership
The Leadership program combines experiential and project-based learning to empower students to make a difference on their campus, community, and world. Through small and large group discussions, team building activities and community engagement, students will actively pursue topics such as collaborative leadership, leadership styles, ethics and decision making while exploring the power of risk taking, communication, and facilitation. Second Semester ½ credit.

Foundations of Sports and Fitness
This course explores sports and fitness related topics that include careers, statistics, nutrition, sports officiating, lifetime fitness activities, goal setting, and leadership. Students will explore topics of interest individually and as small groups. First semester. ½ credit.

Essential Skills- Cooking
Cooking - introductory course in the Food Service and Hospitality pathway. It is designed for students who are interested in understanding the principles of food and nutrition and maintaining a healthy life. The study and application of food preparation, planning, service and nutrition is addressed in this course. Students use small and large equipment, supplies, products and procedures in an interdisciplinary approach. Safety and sanitation is paramount and applied in a classroom laboratory setting. The course will also focus on food purchasing, preparation techniques, meal service, etiquette, cultures and technology. Through reading expository and non-fiction articles, writing, listening and speaking students will develop the ability to research, collect data, analyze information, report findings and evaluate food products. 1 semester. ½ credit.