

West Plains High School

Course Descriptions

2021-2022

COMMUNICATION ARTS

ENGLISH I

Prerequisites: None

Grade: 9 **Length:** 1 year **Credit:** 1 Communication Arts (required for graduation) **GPA:** Regular

This full-year course is designed to prepare students for practical skill applications of reading, writing, listening, speaking, and problem-solving situations as appropriate for ninth grade. This course surveys several literary genres including the novel, the short story, drama, poetry, and non-fiction to give students a solid background in literature. Students will learn to write in the modes of expository, persuasive, narrative, and descriptive. Grammar is reviewed and applied to writing, editing, and speaking skills. Teachers introduce students to the high school library and teach skills for both research and personal use.

HONORS ENGLISH I

Prerequisite: Interested students must meet two of the three following criteria: reading level at grade level, minimum B in eighth grade communication arts class, and/or teacher recommendation. Students who earn a D or F at semester will transfer to English I. Students who earn a D or F must take English II their sophomore year.

Grade: 9 **Length:** 1 year **Credit:** 1 Communication Arts (required for graduation) **GPA:** Regular

This full-year course is designed for students who have demonstrated English proficiency by maintaining an A or B in their eighth grade communication arts class. This course features added emphasis on the writing process, incorporating essays, critical analyses, and the research paper. Students study several literary genres including the novel, the short story, drama, poetry, and non-fiction. Students learn to write in the modes of expository, persuasive, narrative, and descriptive. Each of these modes will extend to essay development and advanced vocabulary usage will be practiced. Teachers will introduce students to the high school library for both research and personal use.

ENGLISH II

Prerequisites: Successful completion of English I

Grade: 10 **Length:** 1 year **Credit:** 1 Communication Arts (required for graduation) **GPA:** Regular

This is a full-year concept-based course designed to promote cross-cultural ideas by surveying and assessing literary genres such as the novel, the short story, drama, and poetry. Students will develop all methods of communication skills, build vocabulary, plus review and apply basic grammar skills. Writing activities will stress developing and supporting a thesis in paragraphs, essays, and reports. Students will use the four composition modes of expository, descriptive, persuasive, and narrative. Students will further develop library skills for personal use and research projects.

HONORS ENGLISH II

Prerequisites: Successful completion of Honors English I or reading at grade level and 9th grade teacher recommendation. Students who earn a D or F at semester may transfer to English II and will not be recommended for Honors English III.

Grade: 10 **Length:** 1 year **Credit:** 1 Communication Arts (required for graduation) **GPA:** Regular

This full year course is designed for students who have demonstrated English proficiency in Honors English I. This course features added emphasis on writing, vocabulary, and analytical reading skills as well as exploring, identifying, and analyzing various literary genres. Students will write critical literary essays about course selections. Additional writing experiences will include extensive practice with the four writing modes of narrative, descriptive, persuasive, and expository. In-class writing practice will emphasize the development of peer-editing skills to review and apply grammar usage and mechanics rules. Students will further develop library skills for personal use and research projects.

ENGLISH III

Prerequisite: Successful completion of English II

Grade: 11 **Length:** 1 year **Credit:** 1 Communication Arts (required for graduation) **GPA:** Regular

This full-year course is designed to examine assorted genres of literature including the novel, the short story, poetry, drama, and historical writings of American authors. Composition is stressed through writing persuasive, narrative, expository, and descriptive essays. To improve writing and prepare for college entrance exams, students will review grammar and usage and work to build an extensive vocabulary. Students will be required to complete a job shadowing unit applying practical and workplace writing skills.

HONORS ENGLISH III

Prerequisites: Interested students must pass Honors English II with a C or English II with an A, read at grade level, and/or have a teacher recommendation. Students who earn a D or F in Honors English III will not be recommended for Honors English IV.

Grade: 11 **Length:** 1 year **Credit:** 1 Communication Arts (required for graduation) **GPA:** Weighted

This full-year course is designed for students who have demonstrated proficiency in their ninth and tenth grade communications arts classes. Through a historical approach to American literature, this course examines the novel, the short story, poetry, drama, and non-fiction writings. Students will compare, contrast, and analyze literary selections through discussion as well as through writing documented literary analyses. Students will compose essays in the descriptive, narrative, persuasive, and expository modes. In-class writing assignments will emphasize the continued development of peer-editing skills to review and to apply grammar usage, mechanics rules, and advanced vocabulary. Students will be required to complete a job shadowing unit applying practical and workplace writing skills.

ENGLISH IV

Prerequisites: Students must pass English I, II, and III or Honors English I, II, and III

Grade: 12 **Length:** 1 year **Credit:** 1 Communication Arts (required for graduation) **GPA:** Regular

This full-year senior English course is literature based and reading centered. Curriculum is made up of several novels, short stories, dramas, and non-fiction literature selections. Literary analysis is the largest component of this class; however, vocabulary study, in-depth class discussions, and special projects also make up this course of study.

HONORS ENGLISH IV

Prerequisites: Interested students must pass Honors English III with a C or English III with an A, read at grade level, and/or have a teacher recommendation.

Grade: 12 **Length:** 1 year **Credit:** 1 Communication Arts (required for graduation) **GPA:** Weighted

Prerequisite: Interested students must pass Honors English III with a B or English III with an A, read at grade level, and/or teacher recommendation. This full-year course is designed as a college preparatory class. There are three main focuses: The study of English literature and English authors; Greek and Latin vocabulary; and various expository, persuasive, research-based, literary, comparison/contrast, and narrative compositions.

ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION

Prerequisites: Interested students are recommended to have an ACT score of 23 or above on the reading and English sections.

Grade: 12 **Length:** 1 year **Credit:** 1 Communication Arts **GPA:** Weighted

This is a full-year college-level course which focuses on reading, interpreting and writing about world literature, especially American and English literature. The readings assigned will build upon the reading done in previous English courses with an emphasis on taking time to understand a work's complexity and to analyze how meaning is embodied in literary form. Writing assignments will focus on the critical analysis of literature and include expository, analytical, and argumentative essays. The College Board Examination, which offers a chance for college credit at most colleges, may be taken at the end of the year.

FOLKLORE PUBLISHING (RIDGERUNNER)/OZARK FOLKLORE

Prerequisites: Application/ instructor permission

Grade: 11-12 **Length:** 1 year. **Credit:** 1 Communication Arts **GPA:** Regular

Students must have a B grade point average and complete an application with teacher recommendations. The class will produce a magazine, which focuses on Ozark heritage. Students will also explore folklore from all over the United States as well as how it affects our Ozarks heritage. Students are encouraged to make first hand investigations of our entire world and its people.

MYTHOLOGY

Prerequisite: English I and II

Grade: 11-12 **Length:** 1 semester each course **Credit:** ½ Communication Arts **GPA:** Regular

This semester course is designed to encourage students to study and discuss mythologies from all over the world and their impact on our modern world. Art, literature, storytelling, and language will be used to explain the significance of myth-making.

DEBATE

Prerequisites: None

Grade: 9-12 **Length:** 1 Semester **Credit:** 1/2 Communication Arts **GPA:** Regular

Advanced Debate is a course in research, organization, communication, and delivery of speeches for the purpose of debate. There will be special focus in the areas of policy, Lincoln-Douglas, and public forum debating. **Participation in out-of school competitions will be recommended but not required.** This course may be repeated for credit.

SPEECH

Prerequisites: None

Grade: 9-12 **Length:** 1 semester **Credit:** ½ Communication Arts **GPA:** Regular

This course concentrates overcoming student fear of public speaking and effective delivery. Students will learn about and deliver different types of speeches. The second portion of the course is the study of the communication process including speaking and listening, self-concept and analyzing, interpersonal communication and communication in groups. Out of school participation in competitions is not required.

COMPETITIVE SPEECH AND DEBATE

Prerequisites: Instructor Permission

Grade: 9-12 **Length:** 1 year **Credit:** 1 Communication Arts **GPA:** Regular

This course is designed to improve the skills of the public speaker. It is designed to work on and improve the speaker's presentation and selection process. This is accomplished through presentations of original oratories, debates, and interpretations in competitive situations. This will involve attending out of school speech competitions on periodic weekends. Students will become part of the National Forensics League. This course may be repeated for credit.

CREATIVE WRITING

Prerequisites: English I and II or Honors English I and II

Grade: 11-12 **Length:** ½ year **Credit:** ½ Communication Arts **GPA:** Regular

This class will address writing skills and strategies. Projects include but are not limited to journaling, narrative writing, poetry and limericks, short stories, reflective essays, autobiography, creating atmosphere, character description, plot development, description, and using figurative language. Students are expected to produce at least 500 words per week, practice self- and peer-editing, and share some of their writings with classmates.

GATEWAY AWARD READING

Grade: 9-12 **Length:** 1 semester **Credit:** ½ Communication Arts **GPA:** Regular

This would be a semester course designed for students to read the annual Gateway Readers Award novels. This course would serve to encourage students to select and read quality literature that appeals to their needs, interests, and reading levels. It would also serve to develop a cooperative relationship among teens and libraries, and to encourage the development of a love of reading in teens. Students will make essential reading practice more effective for every student, personalize reading practice to each student's current level, assess reading through project-based learning, and build a lifelong love of reading and learning.

LITERATURE OF THE BIBLE

Prerequisites: English I and II or Honors English I and II

Grade: 11-12 **Length:** 1 year **Credit:** 1 Communication Arts **GPA:** Regular

The class for The Bible and Its Influence is an elective literature class. It will be an academic study of the Bible, which will include both the Old and New Testaments. The class curriculum will involve a study of many Bible stories, particular men and women of the Bible, history within the context of the Old

and New Testaments, proverbs, and poetry from the Old Testament Scriptures. There will also be a literary overview of the New Testament and culture. Students will also study about the impact that the translations of the Bible have had on our English language.

NOVELS

Prerequisites: None

Grade: 9-12 **Length:** 1 semester **Credit:** ½ Communication Arts **GPA:** Regular

This semester course is designed for students who are interested in reading short stories and novels. This course features added emphasis on comprehension, vocabulary, and analytical reading skills as well as exploring, identifying, and analyzing various literary genres. Students will also compare, contrast, analyze and evaluate connections between information read and identify the types of relationships in the various fiction material covered.

SCIENCE FICTION

Prerequisites: None

Grade: 9-12 **Length:** 1 semester **Credit:** ½ Communication Arts **GPA:** Regular

This is a semester course, in which students will study the cultural impact of science fiction literature on society over the years and explore the contributions of major authors in this area of literature. Other forms of media will also be examined and discussed to further elaborate on this unique, exciting genre of writing. Students will read significant works of literature, evaluate the viewpoints expressed in them, and create their own opinions and stories in class.

TECHNICAL WRITING

Grade: 11-12 **Length:** 1 semester **Credit:** ½ Communication Arts **GPA:** Regular

This is a semester course in which students explore business correspondence: emails, business letters, resumes, cover letters. The students will also learn etiquette regarding online communication such as social media and blogs. MLA and APA styles of documentation, including how to determine if a source should be considered credible will be covered.

ZIZZERETTE

Prerequisites: Application, Instructor Approval

Grade: 11-12 **Length:** 1 year **Credit:** 1 Communication Arts **GPA:** Regular

Students in this course will learn to interview, write news stories and produce as its final project seven or eight issues of the school newspaper.

MATHEMATICS

MATH CONCEPTS

Prerequisites: Teacher recommendation.

Grade: 9 **Length:** 1 year **Credit:** 1 Mathematics **GPA:** Regular

Math Concepts is designed for the student who is not ready to take an Algebra I course. The student will be engaged with guided practice and some developmental hands-on activities to improve their foundation for Algebra I. This is not a college-preparatory course.

ALGEBRA CONCEPTS

Prerequisites: Teacher Recommendation.

Grade: 10 **Length:** 1 year **Credit:** 1 Mathematics **GPA:** Regular

Algebra Concepts is designed for students who struggle with Algebra I concepts. These students will be engaged with guided practice and hand-on activities covering Algebra I concepts in order to develop a better understanding of Algebra I.

GEOMETRY CONCEPTS

Prerequisites: Algebra Concepts

Grade: 11-12 **Length:** 1 year **Credit:** 1 Mathematics **GPA:** Regular

This course is designed for the student who is not ready to take a full year of Geometry. The student will be engaged with guided practice that incorporates real world applications and hands-on activities that focus on the foundation of geometry such as angles, parallel lines, triangles, area, volume, polygons, and etc.

ALGEBRA I Part 1

Prerequisites: Math aptitude / teacher recommendation or pre-algebra

Grade: 9- 10 **Length:** 1 year **Credit:** 1 Mathematics **GPA:** Regular

Algebra I Part I is the first of two classes that comprise Algebra I (the second is Algebra I Part II). Areas that will be studied include linear equations and inequalities, graphing in the Cartesian Plane, functions and functional notation, and systems of linear equations and inequalities. Geometric skills will be incorporated throughout the course while applying algebraic concepts. This course is designed to prepare the student for the Algebra I EOC.

ALGEBRA I Part 2

Prerequisites: Math aptitude / teacher recommendation, Algebra "A" or Honors Algebra I

Grade: 10-12 **Length:** 1 year **Credit:** 1 Mathematics **GPA:** Regular

Algebra I Part II is a continuation of the material introduced in Algebra I Part I. At the end of Algebra B, students are required to take the Algebra I EOC, which assesses student mastery of both Algebra I Part I and Part II concepts. As a result, in order for students to experience success in Algebra I Part II, as well as on the Algebra I EOC, we will begin by reviewing key concepts learned in Algebra I Part I. Then the following Algebra I Part II units will be studied ... Systems of Equations and Inequalities, Exponents and Polynomials, Quadratic Functions and Equations, Exponential Functions, and Data Analysis and Probability.

INTERMEDIATE GEOMETRY

Prerequisites: Algebra I or Algebra I Part 2. This class also requires teacher recommendation

Grade: 10 **Length:** 1 year **Credit:** 1 Mathematics **GPA:** Regular

This course is designed to emphasize the study of properties and applications of common geometric figures in two and three dimensions. It will include the study of transformations and right triangle trigonometry. Inductive and deductive thinking skills will be used in problem solving situations and applications to real world problems will be stressed.

ALGEBRA I

Prerequisites: teacher recommendation

Grade: 9 **Length:** 1 year **Credit:** 1 Mathematics **GPA:** Regular

This course is designed for students who plan on attending any 2-year or 4-year university. This course the students will be introduced to the beginning algebra skills, probability, statistics, patterns, function, linear equations and inequalities, system of equations and inequalities, polynomials and quadratic equations. They will apply these concepts to Real-World applications.

ALGEBRA II

Prerequisites: Algebra I and Geometry

Grade: 11 **Length:** 1 year **Credit:** 1 Mathematics **GPA:** Regular

This course is one of the required courses for a student planning on attending any 2-year or 4-year university. The students in Algebra II will be introduced to the following concept: Linear, Quadratic Polynomial, Exponential, Logarithmic Rational and Radical Functions, Probability, Data Analysis and Statistics, Sequences and Series, Trigonometry, and Conics. They will apply their knowledge of these concepts to Real World Applications.

STEM ALGEBRA I

Prerequisites: Math placement test / teacher recommendation for grade 9

Grade: 9 **Length:** 1 year **Credit:** 1 Mathematics **GPA:** Regular

The Student will be introduced to following concepts: Algebraic expression, Evaluating and Solving linear and Quadratic equations, Inequalities, graphing linear equation and function, and etc. These students will apply their knowledge of these concepts to Real World Applications.

STEM ALGEBRA II

Prerequisites: STEM Algebra I at least a "C" or better and teacher recommendation

Grades: 9-12 **Length:** 1 year **Credit:** 1 Mathematics **GPA:** Regular

The Student will be introduced to the following concepts: they will continue the concepts taught in STEM Algebra I and proceed to the next level of those concepts and add to them Quadratic Functions: Solving and Graphing, Trigonometric functions and equations, and applying these concepts to Real World Applications.

GEOMETRY

Prerequisites: Algebra I or STEM Algebra II and teacher recommendation

Grade: 10 **Length:** 1 year **Credit:** 1 Mathematics **GPA:** Weighted for class of 2017, 2018, 2019 Regular for class of 2020 and after

This course is designed to present the concepts of Plane Euclidean Geometry to students in both a mathematical sense and real world situations. The geometry concepts addressed in this course will include similarity, right triangles, trigonometry, circles, polygons, inductive and deductive reasoning, and proofs of polygons. Applications of these concepts will be addressed through book assignments and hands-on projects.

ADVANCE ALGEBRA WITH TRIGONOMETRY (STEM)

Prerequisites: STEM Algebra II and a grade of B or better.

Grades: 11-12 **Length:** 1 year **Credit:** 1 Mathematics **GPA:** Weighted

This course is an in-depth coverage of trigonometry, logarithms, geometry, and the upper-levels of algebraic concepts. It also completes the study of geometry which was spread out over our three years in the Saxon Math Series. A student who completed all three Honors Algebra I, II, and III will have completed one full year of Euclidean Geometry.

PRE-CALCULUS – Dual Credit MATH 138

Prerequisites: Algebra III or Honors Advanced Algebra with Trigonometry , to receive MTH 138 credit (5 hours) students must pass the MSU-WP placement test or have an ACT score of 24 or higher on the mathematics section. Graphing calculator TI-84 or higher is recommended.

Grade: 11-12 **Length:** 1 year **Credit:** 1 Mathematics (dual credit) **GPA:** Weighted

This course is designed for prospective math majors and students interested in engineering, computer science, physics, business, or life sciences. This course includes an extensive review of algebra, trigonometry, and analytic geometry concepts that are essential for success in calculus. Limits are included to introduce the learner to calculus. This is followed by the introduction of the derivative including composite functions, trig functions, the chain rule, and implicit differentiation. Maximum and minimum values are studied along with concavity and inflection points. Rolle's Theorem and the Mean Value Theorem are also addressed.

STATISTICS

Prerequisites: Algebra II or higher

Grade: 11-12 **Length:** 1 year **Credit:** 1 Mathematics **GPA:** Regular

This course is designed to provide a basic understanding of descriptive and inferential statistics. Topics include the measures of central tendency, standard deviation, combinations and permutations, probability, sampling, and various distributions. Emphasis is on applications of statistical concepts. This course aims to give students an understanding of the main ideas of statistics and useful skills for working data.

AP STATISTICS

Prerequisites: Algebra II or higher

Grade: 11-12 **Length:** 1 year **Credit:** 1 Mathematics **GPA:** Weighted

The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data . Students are exposed to four broad conceptual themes: 1) Exploring Data: Describing patterns and departures from patterns; 2) Sampling and Experimentation: Planning and conducting a study; 3) Anticipating Patterns: Exploring random phenomena using probability and simulation; and 4)

Statistical Inference: Estimating population parameters and testing hypotheses. Students who successfully complete the course and exam may receive credit, advanced placement or both for a one-semester introductory college statistics course .

ADVANCED PLACEMENT CALCULUS BC

Prerequisites: Algebra III/Honors Advanced Algebra with Trigonometry and Pre Calculus. Graphing calculator TI-84 or higher is recommended.

Grade: 12 **Length:** 1 year **Credit:** 1 Mathematics (each) **GPA:** Weighted

AP Calculus BC is designed to cover the topics necessary to pass the AP Calculus BC Exam. The course begins with a review of analytic geometry. The concepts of limits, derivatives, (including composite functions, trig function, the chain rule, implicit differentiation, and separable differential equations and slope fields) are studied. Maximum and minimum values, Rolle's Theorem, and the Mean-Value Theorem will be studied in –depth along with many other key concepts. Advanced Placement credit for college is contingent on scores and college acceptance.

~~INTERMEDIATE COLLEGE ALGEBRA – Dual Credit MATH 103B~~

~~**Prerequisites:** Algebra II (or equivalent), Overall GPA of 3.00 or higher, An ACT Math Subscore of 17 or greater, Intend to enroll in MSU-WP in the Fall~~

~~**Grade:** 12 **Length:** ½ year **Credit:** ½ Mathematics (dual-credit) **GPA:** Regular~~

~~The course will cover order of operations with real and complex numbers; operations with rational exponents and expressions; solutions of equations and inequalities; introduction to basic geometric terms and concepts; linear graphing on a Cartesian Coordinate System; solutions of systems of equations; solving real world applications, including the use of proportions, formulas, and the Pythagorean Theorem.~~

COLLEGE ALGEBRA – Dual Credit MTH 135

Prerequisites: Honors Algebra III, Honors Advanced Algebra with Trigonometry or Honors Geometry. Must pass the (spring) MSU-WP College Placement test or have an ACT score of 22 or higher on the math section of the ACT.

Grade: 12 **Length:** 1 year **Credit:** 1 Mathematics (dual-credit) **GPA:** Weighted

This course is designed for students not planning on majoring in mathematics. It contains topics of interest to majors in business, sociology, economics, sciences, agriculture and others. Topics of studies will include: Polynomial, Rational, Exponential, and Logarithmic Functions, Equations, Inequalities, and their applications. Topics also include systems of equations, introduction to sequences and series, and coordinated geometry. This course will not count toward majors or minors in mathematics. This course is designed to prepare the student for beginning college Calculus course or as a dual enrollment class for MTH 135 (College Algebra).

SOCIAL STUDIES

WORLD GEOGRAPHY AND CULTURES

Prerequisites: None

Grade: 9 **Length:** 1 year **Credit:** 1 Social Studies (required for graduation) **GPA:** Regular

This full-year course familiarizes students with the world by combining authentic exploration and media into a global preparatory program of study. Students should develop skills and knowledge about location, place, human/environmental interaction, movement, and regions. The course will focus on scaffolded content to support geographic discovery for every student. Instruction will include the integration of concepts and principles from history, economics, geography, civics, and the humanities.

AMERICAN HISTORY

Prerequisites: None

Grade: 10 **Length:** 1 year **Credit:** 1 Social Studies (meets requirement for graduation) **GPA:** Regular

This is a year-long course with an emphasis on American History from the Reconstruction period to the present time. It does include a quick review of early American History up to Reconstruction.

ADVANCED PLACEMENT U.S. HISTORY

Prerequisites: 3.0 Overall GPA

Grade: 10, 12 **Length:** 1 year **Credit:** 1 Social Studies (meets requirement for graduation) **GPA:** Weighted

Designed for highly motivated college bound students, this class focuses on American History.

This course studies the national development of the United States and its civilization from pre colonization to present day. This is an extensive reading and writing course. Students may earn college credit with an approved AP exam score. There is a fee for the AP Exam.

AMERICAN GOVERNMENT

Prerequisites: None

Grade: 11-12 **Length:** 1 year **Credit:** 1 Social Studies (meets requirement for graduation) **GPA:** Regular

This course includes instruction in government and citizenship at the local, state and federal level with emphasis on the federal level. The United States Constitution and the Missouri Constitution will be studied. Students in this course will take the Missouri and United States constitution tests.

Students must pass both of these tests in order to graduate from high school. Students will take the state mandated End Of Course exam upon completion of this curriculum.

ADVANCED PLACEMENT U.S. GOVERNMENT AND POLITICS

Prerequisites: 3.0 Overall GPA

Grade: 11-12 **Length:** 1 year **Credit:** 1 Social Studies (meets requirement for graduation) **GPA:** Weighted

AP United States Government and Politics introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the United States. The course examines politically significant concepts and themes, through which students learn to apply disciplinary reasoning, assess causes and consequences of political events, and interpret data to develop evidence-based arguments.

ADVANCED PLACEMENT WORLD HISTORY

Prerequisites: 3.0 Overall GPA & C or better in United States History or United States Government

Grade: 12 **Length:** 1 year **Credit:** 1 Social Studies (meets requirement for graduation) **GPA:** Weighted

The AP World History course provides a clear framework of six chronological periods viewed through the lens of related key concepts and course themes, accompanied by a set of skills that clearly define what it means to think historically. Course themes include 1) Crafting Historical Arguments from Historical Evidence, 2) Chronological Reasoning, 3) Comparison and Contextualization, and 4) Historical Interpretation and Synthesis. Instruction will be focused for student learning of essential concepts to help students develop historical thinking skills necessary to explore the broad trends and global processes involved in their study of AP World History.

SOCIOLOGY

Prerequisites: C or better in United States History or United States Government

Grade: 12 **Length:** 1 semester **Credit:** ½ Social Studies **GPA:** Regular

This semester course provides an introduction to Sociology. It is designed to address, but should not be limited to the following topics: methods of study employed by sociologists, social institutions and norms, social classes, relationships between sexes, racial and ethnic groups, societal determinants, group behavior, socialization process, social deviation, social conflict, social stratification, social participation, and role of social organizations and institutions.

PSYCHOLOGY

Prerequisites: C or better in United States History or United States Government

Grade: 12 **Length:** 1 semester **Credit:** ½ Social Studies **GPA:** Regular

Students in this course will learn about behavior, perception, development from infancy through death, stress and adjustment, and abnormal behavior. This is a semester class

MISSOURI HISTORY

Prerequisites: C or better in United States History or United States Government

Grade: 12 **Length:** 1 semester **Credit:** ½ Social Studies **GPA:** Regular

Students in this course will learn about the history of Missouri. This is a comprehensive study of the economic, social, and political development of Missouri from its early beginnings to statehood and finally its place in American history.

CIVIL WAR

Prerequisites: C or better in United States History or United States Government

Grade: 12 **Length:** 1 semester **Credit:** ½ Social Studies elective **GPA:** Regular

This course will cover the causes and events of the American Civil War. Topics studied include military strategies, the effects of war on soldiers and civilians, as well as the economic and political systems of a nation.

CURRENT EVENTS

Prerequisites: C or better in United States History or United States Government

Grade: 12 **Length:** 1 semester **Credit:** ½ Social Studies **GPA:** Regular

Current Events is a one-semester course structured to give the student an understanding of current issues in many areas of a political, social, and economic nature. The course emphasizes research done by the student since the topics chosen are very fluid in their nature, meaning that the topics and the amount of coverage on the topics will fluctuate on any given day, week, or month depending on topics current in the media

CRIMINAL JUSTICE

Prerequisites: C or better in United States History or United States Government

Grade: 12 **Length:** 1 semester **Credit:** ½ Social Studies **GPA:** Regular

This course surveys the entire Criminal Justice process from law enforcement to the administration of justice through corrections. It discusses history and philosophy of the system and introduces various career opportunities.

SCIENCE

GENERAL PHYSICAL SCIENCE

Prerequisite: None

Grade: 9 **Length:** 1 year **Credit:** 1 Science **GPA:** Regular

Students will explore the fascinating world of physical science. Physical science is a combination of two branches of science: Chemistry (matter and energy) and Physics (force & motion). Scientific concepts are presented so that students may critically analyze, evaluate, and predict new solutions for existing problems. Connections to real life situations will help students to better understand the world around them and the scientific concepts that explain them.

CONCEPTUAL PHYSICS

Prerequisite: Algebra I or higher

Grade: 9 **Length:** 1 year **Credit:** 1 Science **GPA:** Regular

Students will learn physics (force & motion) and chemistry (matter & energy) through Project Based Learning. PBL is a strategy in which students learn by actively engaging in personal and meaningful projects. Students will gain knowledge and skills by working for an extended period of time to investigate and respond to a real-world problem by answering complex questions. Students will explore scientific concepts, find real world applications, formulate an action plan, learn the content through their project, and create a public product/presentation for a real audience. STEM will be incorporated within each unit of study.

GENERAL BIOLOGY

Prerequisites: Physical Science or Honors Physical Science

Grade: 9-10 **Length:** 1 year **Credit:** 1 Science (Biology is a graduation requirement) **GPA:** Regular

Biology is a year-long laboratory based course in which students will seek to understand the living world. The course will include molecular and cellular biology, genetics and heredity, diversity and unity among organisms, ecology, and biological evolution, as well as the life processes common to all living things. Students will be required to take an End of Course exam to determine their level of knowledge in biology.

HONORS BIOLOGY

Prerequisites: C or better in Honors Physical Science

Grade: 10

Length: 1 year

Credit: 1 Science (Biology is a graduation requirement)

GPA: Regular

Honors Biology is a problem-based, year-long laboratory based course in which students will seek to understand the living world. The course will include molecular and cellular biology, genetics and heredity, diversity and unity among organisms, ecology, and biological evolution, as well as the life processes common to all living things. (Students may be placed in biology their freshman year based on placement test from 8th grade and who concurrently enroll in Algebra II STEM).

Students will be required to take an End of Course exam to determine their level of knowledge in biology.

AP BIOLOGY

Prerequisites: C or higher in Biology & Chemistry (or dually enrolled in Chemistry), Algebra II, & teacher permission

Grade: 10-12

Length: 1 year

Credit: 1 Science

GPA: Weighted

AP Biology is an introductory college level biology course designed for students likely to major in an area of science at a postsecondary institution. For most students, this course enables them to undertake major's sequence plant science, zoology, and molecular cell biology courses or to register for other courses in the fields where general biology is a prerequisite. This course is structured around four big ideas articulated by the AP College Board including: evolution driving unity and diversity, biological systems maintenance of dynamic homeostasis using free energy, the storage and transmission of information by living systems to respond to essential life processes, and complex interactions of biological systems. Special emphasis is placed on science practices and enduring understandings, which capture important aspects of the work that scientists engage in combined with learning objectives that combine content with inquiry and reasoning skills including a rigorous mathematics component. There is a National College Board exam at the end of this course (\$85 test fee or a reduced fee for those qualifying for free and reduced lunch).

GENERAL CHEMISTRY

Prerequisites: Algebra I or Algebra 1 Part II, Honors Biology (OR) teacher's approval if in General Biology

Grade: 10-12

Length: 1 year

Credit: 1 Science

GPA: Regular

Chemistry is the study of matter and the changes it undergoes. Chemistry has been called "The Central Science" due to the fact that many other fields of science must utilize chemistry to be fully understood. During the time students are in this class, they will learn to solve and document scientific problems, classify and identify types of matter, study the history and future prospects of chemistry, learn about the parts and interactions of atoms, study the properties of the periodic table, explain how ionic, covalent and metallic bonds work, and then apply all knowledge to mathematically solve stoichiometric chemistry problems. Although physical science is not required as a prerequisite, it is strongly recommended that students take the course prior to general chemistry.

PRE-AP CHEMISTRY

Prerequisites: C or better in Honors Biology & Algebra II, teacher approval

Grade: 10-12

Length: 1 year

Credit: 1 Science

GPA: Regular

Advanced Chemistry is a course designed to vertically align with content studied in Advanced Placement Chemistry. The course follows the six big ideas presented by the AP College Board for the AP Chemistry curriculum framework. Content includes introductions to: structure of matter, properties of matter – (characteristics, states, and forces of attraction), chemical reactions, rates of chemical reactions, thermodynamics, and equilibrium. This course includes rigorous mathematical components and inquiry analysis. A strong background in Pre-AP Chemistry will enable most students to register for and find success in freshman, university –level chemistry courses at their institution or to proceed to Advanced Placement Chemistry.

AP CHEMISTRY

Prerequisites: C or higher in Chemistry, Algebra II, & teacher approval

Grade: 11-12

Length: 1 year

Credit: 1 Science

GPA: Weighted

AP Chemistry is an introductory college level chemistry course designed for students likely to major in an area of science at a postsecondary institution. For most students, this course enables them to undertake, as a freshman, second year work in the chemistry sequence at their institution or to register for other courses in the fields where general chemistry is a prerequisite. This course is structured around six big ideas articulated by the College Board including: structure of matter, properties of matter – (characteristics, states, and forces of attraction), chemical reactions, rates of chemical reactions, thermodynamics, and equilibrium. Special emphasis is placed on seven science practices and enduring understandings, which capture important aspects of the work that scientists engage in combined with learning objectives that combine content with inquiry and reasoning skills including a rigorous mathematics component. There is a National College Board exam at the end of this course (\$85 test fee or a reduced fee for those qualifying for free and reduced lunch).

GENERAL HUMAN ANATOMY

Prerequisites: Biology & teacher approval

Grade: 11-12

Length: 1 year

Credit: 1 Science

GPA: Regular

Human Body Systems is an introductory course in human anatomy and physiology. It is a great course for anyone who is interested in the health or medical field, but is not ready for the college level experience at this time. Students will learn the anatomy and physiology of various body systems, disorders that can affect the body and current medical/health related topics.

ANATOMY AND PHYSIOLOGY

Prerequisites: Biology & teacher approval

Grade: 11-12

Length: 1 year

Credit: 1 Science

GPA: Regular

Human Anatomy & Physiology is intended for advanced science students who wish to increase their knowledge of the human body's structure and function. The major emphasis of this course is the physical and chemical processes of the human body. Emphasis will be placed on presenting the human body as a living, functioning, homeostatic organism. Topics include body organization, cells, tissues, structure and function of the organ systems of the body, microscope use and dissection techniques.

PHYSICS

Prerequisite: Biology, Algebra II or Geometry, and teacher approval

Grade: 10-12

Length: 1 year

Credit: 1 Science

GPA: Regular

This entry level physics course will allow students to learn various physics principles with emphasis on the concepts. Topics covered in this course are: Newtonian Mechanics; Newton's Laws; Work, Energy, Power, and Momentum; Electrostatics; Current Electricity; Electromagnetism; Wave Motion, and Sound. Although physical science is not required as a prerequisite, it is strongly recommended that students take the course prior to physics.

AP PHYSICS

Prerequisites: C or higher in Chemistry or Physics, Algebra II or Geometry, & teacher approval

Grade: 11-12

Length: 1 year

Credit: 1 Science

GPA: Weighted

AP Physics is an introductory college level physics course designed for students likely to major in an area of science at a postsecondary institution. It is equivalent to an introductory algebra-based university level physics course. A passing score on the National College Board exam at the end of the course will give students college credit for the course at universities that accept AP credit. Topics covered in this course are: Newtonian Mechanics; Newton's Laws; Work, Energy, Power, and Momentum; Electrostatics; Current Electricity; Wave Motion and Sound. There is a National College Board exam at the end of this course (\$85 test fee or a reduced fee for those qualifying for free and reduced lunch). Although physical science/physics is not required as a prerequisite, it is strongly recommended that students take the course prior to AP Physics.

EARTH SCIENCE

Prerequisites: Biology

Grade: 11

Length: 1 year

Credit: 1 Science

GPA: Regular

Earth Science is an activity and lab based class which includes the study of astronomy, plate tectonics, energy in Earth systems, biogeochemical cycles, climate, weather, the atmosphere, and Missouri geology. The students learn these topics by examining the formation and evolution of the universe, the solar system, the earth, the oceans, and weather. This course will help students establish a base for wise decision making with respect to an individual's role and responsibility as a consumer in a world with finite resources.

FORENSIC SCIENCE

Prerequisites: None

Grade: 12

Length: 1 semester (Fall)

Credit: ½ Science

GPA: Regular

Forensics is a field of science that uses a multitude of ways to solve crimes. In this elective course, we will focus on criminal law, psychology, and the methodology for conducting presumptive and confirmatory forensic tests. Students will be learning how to dust for fingerprints, perform gel electrophoresis for DNA fingerprinting, distinguish between different types of fibers and foreign objects, evaluate ballistic tests, etc. These concepts are presented using hands-on activities and research to develop a better understanding of the role a forensic scientist plays in a criminal case.

NATURAL DISASTERS

Prerequisites: None

Grade: 12

Length: 1 semester (Spring)

Credit: ½ Science

GPA: Regular

Students will be learning the science behind the following: earthquakes, tsunamis, volcanoes, thunder/lightning storms, tornadoes, hurricanes and floods. Students will also focus on historical events, effects on society, and how these disasters have impacted the environment over time.

PHYSICAL EDUCATION

PHYSICAL EDUCATION I

Prerequisites: None

Grade: 9

Length: 1 year

Credit: 1 PE (required for graduation)

GPA: Regular

Students will learn the benefits of fitness and its role in maintaining health and wellness of the human body. Health-related physical fitness components will be covered and students will perform a variety of fitness activities including physical fitness testing. Emphasis will be placed on the individual student's progression and improvement throughout the semester.

BODY SCULPTING

Prerequisites: PE 1, teacher recommendation.

Grade: 10-12

Length: 1 year.

Credit: 1 PE (repeatable)

GPA: Regular

This course is designed to enhance the male students overall health and fitness through various beginning weight training techniques. We will use a variety of sport specific movements and functional training exercises to improve the students overall body strength and health. Power, strength, agility, balance, flexibility, and coordination will be areas of emphasis for this class.

HEALTH

Prerequisites: None

Grade: 9-12

Length: 1 semester

Credit: ½ Health (required for graduation)

GPA: Regular

This course develops the skills needed to improve the quality of life by helping students to cope with and solve problems, and make better decisions. The students will explore positive health lifestyle skills; alcohol and drug prevention; nutrition; human growth and development; disease prevention, emergency first aid care and consumer health. The students will develop an understanding of the psychological, social, emotional, and physical implications of developing and maintaining a responsible healthy lifestyle.

MEN'S STRENGTH TRAINING

Prerequisites: PE 1, teacher or coach recommendation.

Grade: 10-12

Length: 1 Sem.

Credit: ½ PE (repeatable)

GPA: Regular

This course is designed to enhance the male student athletes' overall sports related skills through various advanced weight training techniques. We will use a variety of sports specific movements and functional training exercises to improve the student athlete for competition and overall health. Power, strength, agility, balance, flexibility and coordination will be the areas of emphasis for this class. This course is repeatable for credit.

WOMEN'S STRENGTH TRAINING

Prerequisites: PE 1, Teacher or coach recommendation. Females only.

Grade: 10-12 **Length:** 1 Sem. **Credit:** ½ PE (**repeatable**) **GPA:** Regular

This course is designed to enhance the female student athletes' overall sports related skills through various advanced weight training techniques. We will use a variety of sports specific movements and functional training exercises to improve the student athlete for competition and overall health. Power, strength, agility, balance, flexibility and coordination will be the areas of emphasis for this class. This course is repeatable for credit.

WOMEN'S CARDIO-AEROBIC CONDITIONING

Prerequisites: PE 1, Teacher or coach recommendation. Females only

Grade: 10-12 **Length:** 1 Sem. **Credit:** ½ PE (**repeatable**) **GPA:** Regular

This course is designed to enhance the student's cardio-vascular conditioning. An emphasis will be placed on cardio respiratory endurance This course will incorporate running, core development, light weight training, flexibility and agility training. An emphasis will be placed on preparation for aerobic athletic events. This course is repeatable for credit.

MEN'S CARDIO-AEROBIC CONDITIONING

Prerequisites: PE 1, Teacher or coach recommendation. Females only

Grade: 10-12 **Length:** 1 Sem. **Credit:** ½ PE (**repeatable**) **GPA:** Regular

This course is designed to enhance the student's cardio-vascular conditioning. An emphasis will be placed on cardio respiratory endurance This course will incorporate running, core development, light weight training, flexibility and agility training. An emphasis will be placed on preparation for aerobic athletic events. This course is repeatable for credit.

FINE ARTS

STUDIO ART I

Prerequisites: None

Grade: 9-12 **Length:** 1 year **Credit:** 1 Fine Art **GPA:** Regular

This class is designed so those with art experience will be challenged, and those without will learn new skills. During the year students will explore a variety of media through drawing, painting, printmaking and clay.

STUDIO ART II

Prerequisites: C in Studio Art I

Grade: 10-12 **Length:** 1 year **Credit:** 1 Fine Art **GPA:** Regular

This course is designed to further the skills of the serious artist. Any student taking this class must complete studio art I with a "C" average. Students will keep a portfolio of work. Students will be required to create a series of work each quarter and write art critiques of that work

ADVANCED ART TECHNIQUES

Prerequisites: Studio Art I and B in Studio Art II

Grade: 11-12 **Length:** 1 year **Credit:** 1 Fine Art **GPA:** Regular

This course is designed to further the skill of the serious artist. Any students taking this class must complete Art I and II respectively and maintain a "B" average in those classes. Students will keep a portfolio of work. Offered every other year.

ADVANCED ART COMPOSITION

Prerequisites: Studio Art I and B in Studio Art II

Grade: 11-12 **Length:** 1 year **Credit:** 1 Fine Art **GPA:** Regular

This course is designed to further the skill of the serious artist. Any student taking this class must complete Art I and II respectively and maintain a "B" average in these classes. Students will keep a portfolio of work. Offered every other year. This course will not be offered during the 2019-2020 school year. It will be offered during the 2020-2021 school year.

MARCHING BAND

Prerequisites: Prior Band experience or permission from instructor

Grade: 9-12 **Length:** 1 Semester (Fall) **Credit:** ½ Fine Art (repeatable) **GPA:** Regular

This is a performance-based class for students desiring to study advanced band methods. This is a semester-long class (Fall) that emphasizes marching fundamentals, performance of concert music, musicality, technical playing, and individual practice. Three years prior band experience is required or equivalent, and permission of the instructor. Band involves a significant amount of time outside of the school day for rehearsals and performances. An audition may be required.

JUNIOR VARSITY BAND

Prerequisites: Prior Band experience or permission from instructor

Grade: 9-12 **Length:** 1 Semester (Spring) **Credit:** ½ Fine Art (repeatable) **GPA:** Regular

This is a performance-based class for students desiring to study concert band methods. This is a one semester class (Spring) that emphasizes playing fundamentals, performance of concert music, musicality, technical playing, and individual practice. Three years prior band experience is required or equivalent, and permission of the instructor. Band involves a significant amount of time outside of the school day for rehearsals and performances. An audition may be required.

VARSITY BAND

Prerequisites: Prior Band experience or permission from instructor

Grade: 9-12 **Length:** 1 Semester (Spring) **Credit:** ½ Fine Art (repeatable) **GPA:** Regular

This is a performance-based class for students desiring to study advanced concert band methods. This is a one semester class (Spring) that emphasizes playing fundamentals, performance of concert music, musicality, technical playing, and individual practice. Three years prior band experience is required or equivalent, and permission of the instructor. Band involves a significant amount of time outside of the school day for rehearsals and performances. An audition may be required.

JAZZ TECHNIQUES

Prerequisites: Instructor approval, ability to read music

Grade: 9-12

Length: 1 year

Credit: 1 Fine Art

GPA: Regular

This course is designed for those who desire to study a musical instrument on a more individual level. This course emphasizes all fundamentals of music, and does require a significant amount of time outside the regular school day for practice and rehearsals.

BAND TECHNIQUES

Prerequisites: Instructor approval, ability to read music

Grade: 9-12

Length: 1 year

Credit: 1 Fine Art

GPA: Regular

This is an audition only class for students desiring to study advanced band methods on an individual level. This is a year-long long class that prepares students for district and state honor band auditions, and for performance at the MSHSAA district and state solo and ensemble festivals. Significant individual practice is required. Three years prior band experience is required or equivalent, and permission of the instructor. Band Techniques involves a significant amount of time outside of the school day for rehearsals and performances.

VARSITY CHOIR

Prerequisites: None

Grade: 9-12

Length: 1 year

Credit: 1 Fine Art (repeatable)

GPA: Regular

This is a performance class that works on sight-reading and part-singing. This choir combines with the Concert Choir and performs two home concerts and competes in conference and district events. The literature learned is moderately difficult and often in different languages.

CONCERT CHOIR

Prerequisites: Instructor permission

Grade: 9-12

Length: 1 year

Credit: 1 Fine Art (repeatable)

GPA: Regular

This class provides for the study and performance of significant choral literature for mixed voices from a variety of periods of composition. Great emphasis is placed upon correct phonetic pronunciation and understanding of Latin, Italian, and Greek texts, historically correct performance practice and musical literacy. The literature is difficult & requires advanced vocal technique & music reading ability.

THEATRE

Prerequisites: None

Grade: 9-12

Length: 1 year

Credit: 1 Fine Art.

GPA: Regular

This course is designed as an introductory study of the theatrical arts. Theatre is a collaborative art enabling students to better understand the art form gain an appreciation of the theatre performance, and gain skills that are essential within the theatre realm as well as within the workforce. Students will briefly survey theatrical organization, history of theater, design process from pre-production to post-production, and the role of audiences and actors relationship.

ADVANCED ACTING

Prerequisites: Theater, Application/Instructor Approval

Grades: 10-12

Length: 1 year

Credit: 1 Fine Arts (repeatable)

GPA: Regular

The goal of this course is to apply skills introduced in Theater to different kinds of dramatic texts. This course will expose actors to various audition techniques such as monologue preparation, cold readings, and duets. Students will study different theories/techniques of acting exploring the styles to find which works best for them. The class may require work outside the class period. Students are required to purchase a text.

TECHNICAL THEATRE

Prerequisites: Application/Instructor Approval

Grade: 10-12

Length: 1 year

Credit: 1 Fine Art (repeatable)

GPA: Regular

Stagecraft is designed to acquaint the students with the technical skills required to plan and produce scenery, lighting, and public relations for a theatrical production. Concentration is on scenic construction techniques as well as topics in lighting, sound, and properties. The course is based on hands-on, self-motivated work concerning show business. The class does require time and work outside of the class period.

WORLD LANGUAGE

FRENCH I

Prerequisite: None

Grades: 9-12

Length: One Year

Credit: 1 Foreign Language

GPA: Regular

This is an elective course designed to develop world language skills and to prepare students for living in a global society. Classroom instruction is designed to develop the ability to communicate in a second language by involving students in communicative tasks. Classroom instruction includes reading, writing, listening and speaking skills. Students will learn the target language in a contemporary cultural context. This course may lead to meeting college entrance requirements.

FRENCH II

Prerequisite: French I with Grade C or better

Grades: 10-12

Length: One Year

Credit: 1 Foreign Language

GPA: Regular

This is an elective course designed to further develop the world language skills learned in French I and further prepare students for living in a global society. Classroom instruction will be designed to further develop the ability to communicate in a second language by involving students in communicative tasks.

Classroom instruction includes reading, writing, listening, and speaking skills. Students will learn the target language in a contemporary cultural context. This course may lead to meeting college entrance requirements.

FRENCH III

Prerequisite: French 2 with Grade C or better

Grades: 11-12

Length: One Year

Credit: 1 Foreign Language

GPA: Regular

This is an elective course designed to reinforce the world language skills learned in French 1 and 2 and to continue to prepare students for living in a global society. Classroom instruction is designed to reinforce the ability to communicate in a second language by involving students in communicative tasks. Classroom instruction includes reading, writing, listening, and speaking skills. Students will learn the target language in a contemporary cultural context.

GERMAN I

Prerequisite: None

Grades: 9-12

Length: One Year

Credit: 1 Foreign Language

GPA: Regular

This is an elective course designed to develop world language skills and to prepare students for living in a global society. Classroom instruction is designed to develop the ability to communicate in a second language by involving students in communicative tasks. Classroom instruction includes reading, writing, listening and speaking skills. Students will learn the target language in a contemporary cultural context. This course may lead to meeting college entrance requirements.

GERMAN II

Prerequisite: German 1 with Grade C or better

Grades: 10-12

Length: One Year

Credit: 1 Foreign Language

GPA: Regular

This is an elective course designed to further develop the world language skills learned in German 1 and further prepare students for living in a global society. Classroom instruction will be designed to further develop the ability to communicate in a second language by involving students in communicative tasks. Classroom instruction includes reading, writing, listening, and speaking skills. Students will learn the target language in a contemporary cultural context. This course may lead to meeting college entrance requirements.

GERMAN III

Prerequisite: German 2 with Grade C or better

Grades: 11-12

Length: One Year

Credit: 1 Foreign Language

GPA: Regular

This is an elective course designed to reinforce the world language skills learned in German 1 and 2 and to continue to prepare students for living in a global society. Classroom instruction is designed to reinforce the ability to communicate in a second language by involving students in communicative tasks. Classroom instruction includes reading, writing, listening, and speaking skills. Students will learn the target language in a contemporary cultural context.

MANDARIN CHINESE I

Prerequisite: None

Grades: 9-12

Length: One Year

Credit: 1 Foreign Language

GPA: Regular

This is an elective course designed to develop world language skills and to prepare students for living in a global society. Classroom instruction is designed to develop the ability to communicate in a second language by involving students in communicative tasks. Classroom instruction includes reading, writing, listening and speaking skills. Students will learn the target language in a contemporary cultural context. This course may lead to meeting college entrance requirements.

MANDARIN CHINESE II

Prerequisite: Mandarin Chinese 1 with Grade C or better

Grades: 10-12

Length: One Year

Credit: 1 Foreign Language

GPA: Regular

This is an elective course designed to further develop the world language skills learned in Mandarin Chinese 1 and further prepare students for living in a global society. Classroom instruction will be designed to further develop the ability to communicate in a second language by involving students in communicative tasks. Classroom instruction includes reading, writing, listening, and speaking skills. Students will learn the target language in a contemporary cultural context. This course may lead to meeting college entrance requirements.

MANDARIN CHINESE III

Prerequisite: Mandarin Chinese 2 with Grade C or better

Grades: 11-12

Length: One Year

Credit: 1 Foreign Language

GPA: Regular

This is an elective course designed to reinforce the world language skills learned in Mandarin Chinese 1 and 2 and to continue to prepare students for living in a global society. Classroom instruction is designed to reinforce the ability to communicate in a second language by involving students in communicative tasks. Classroom instruction includes reading, writing, listening, and speaking skills. Students will learn the target language in a contemporary cultural context.

SPANISH I

Prerequisites: None

Grade: 9-12

Length: 1 year

Credit: 1 Foreign Language

GPA: Regular

Students will learn to listen, speak, read, and write the Spanish language on a basic level. They will also study the cultural differences and similarities between the United States and Hispanic countries. By the end of the course, students will complete projects and presentations in Spanish by working cooperatively and alone to demonstrate their mastery of the content and skills studied in the course.

SPANISH II

Prerequisites: Spanish I

Grade: 10-12

Length: 1 year

Credit: 1 Foreign Language

GPA: Regular

After a review of skills learned in Spanish I, students will continue their study of basic Spanish. Interpersonal communication, interpretation, presentation, cultural awareness, and linguistic knowledge will be emphasized.

SPANISH III

Prerequisites: Spanish I and II

Grade: 11-12

Length: 1 year

Credit: 1 Foreign Language

GPA: Regular

After a review of skills learned in Spanish I and Spanish II, students will deepen their knowledge of the Spanish language and culture. A varied and balanced program emphasizing interpersonal, interpretive, and presentational modes of communication will be provided as outlined in the national standards for Foreign Language Learning. Students will gain a greater understanding of the linguistic system necessary for more sophisticated communication. Projects and performances emphasizing authentic assessment will be used to gauge progress.

PRACTICAL ARTS

AGRICULTURE SCIENCE

ADVANCED AGRICULTURE STRUCTURES

Prerequisites: AG Science I and Agriculture Mechanization

Grade: 11-12

Length: 1 year (Fall Odd Year) **Credit:** 1 Practical Art

GPA: Regular

This course utilizes welding in the development and construction of major metal and wood projects. There is a \$12.00 FFA fee.

ADVANCED ANIMAL SCIENCE (MSU ANIMAL SCIENCE 101 DUAL ENROLLMENT)

Prerequisites: AG Science I

Grade: 11-12

Length: 1 year (Fall Odd Year) **Credit:** 1 Practical Art

GPA: Regular

This is an introduction to farm animal industries, breeds, numbers, distribution, nutrition, heredity, reproduction, health, and products.

AG SCIENCE I (Intro to Ag, Food and Natural Resources)

Prerequisites: FFA Fee

Grade: 9-10

Length: 1 year

Credit: 1 Practical Art

GPA: Regular

This course is the entry level or ninth grade class for agriculture education and is a prerequisite for all other AG classes. Areas of study include leadership (FFA), careers, animal science, nutrition, genetics, and reproduction. Students will be introduced to the Supervised Agricultural Experience Program (SAE) and how to keep records. All students must have a SAE Project. Projects can be raising and/or caring for livestock, working in agriculture production or agriculture business, service learning or conducting an Agri-science project. There is a \$12.00 FFA fee.

AGRICULTURE LEADERSHIP

Prerequisites: AG Science I

Grade: 11-12

Length: 1 semester (Sem 2 – Spring Odd Year) **Credit:** ½ Practical Art

GPA: Regular

This course is designed to help students to develop basic leadership skills. Students will comprehend what it takes to be a successful leader and work with others to achieve a common goal. This course will include subjects such as youth organizations, leadership development opportunities and some public speaking. There is a \$12.00 fee. Courses are rotated on even-odd years to meet career path requirements.

AGRICULTURE MECHANIZATION

Prerequisites: AG Science I or permission Project Fees

Grade: 10-12

Length: 1 year

Credit: 1 Practical Art

GPA: Regular

This course includes units of instructions on arc welding, mig welding, oxy-acetylene welding and cutting, power tools, basic woodworking, reading and drawing plans, and finishing projects. There is a \$12.00 FFA fee.

AG POWER I

Prerequisites: AG Science I

Grade: 10-11

Length: 1 year

Credit: 1 Practical Art

GPA: Regular

This course is designed to develop skills in the maintenance, repair, adjustment, and overhaul of small engines. There is a \$12.00 FFA fee.

AG POWER II

Prerequisites: AG Science I and AG Power I

Grade: 11-12

Length: 1 year

Credit: 1 Practical Art

GPA: Regular

This course is a study of basic principles of power transmissions, hydraulic systems and tractor motors, tractor operation, and safety practices. Maintenance will receive major emphasis. There is a \$12.00 FFA fee.

CONSERVATION

Prerequisites: AG Science I

Grade: 11-12

Length: 1 semester (Sem 1 – Fall Even Year) **Credit:** 1/2 Practical Art

GPA: Regular

This is a course that prepares students for activities in the conservation and/or improvement of natural resources, such as water, air, forests, fish and wildlife for economic and recreational purposes. Students will be required to keep a record book on their Supervised Agriculture Experience Project (SAEP).

CROP SCIENCE

Prerequisites: AG Science I

Grade: 10-12

Length: 1 year

Credit: 1 Practical Art

GPA: Regular

Crop Science is a course that teaches crop science with an emphasis on plant biology, soil fertility and management, identifying and selecting crops and seeds safety, environment, and legal issues, specific crop production for local area forage production, also include will be instruction in ag careers, leadership, and supervised agriculture experience. Students in all agriculture classes must have a Supervised Agriculture Experience Project and keep records on that project. Projects can range from raising and caring for livestock to working in agriculture production or agriculture business. There is a \$12.00 FFA fee.

EQUINE SCIENCE

Prerequisites: AG Science I Dual Credit

Grade: 11-12 **Length:** 1 semester (Sem 1 – Fall Even Year) **Credit:** 1/2 Practical Art **GPA:** Regular

This course is designed to help students to develop a working comprehension of the horse industry. Topics include the evolution of the horse, different types of breeds and breed characteristics, proper use of horse and tack, and the business aspects that pertain to the 21st century. Students from this class can use the information gathered to start an effective SAE program or use them for CDE's.

FORESTRY

Prerequisites: AG Science I

Grade: 11-12 **Length:** 1 semester (Sem 2 – Spring Odd Year) **Credit:** 1/2 Practical Art **GPA:** Regular

This course includes the following aspects of forestry: economic and environmental importance; tree identification, map reading, small harvesting equipment, safety, and the marketing of standing timber and stand improvement. Students will be required to keep a record book of their Supervised Agriculture Experience Project (SAEP).

FARM MANAGEMENT

Prerequisites: AG Science I

Grade: 11-12 **Length:** 1 semester (Sem 2 – Spring Even Year) **Credit:** 1/2 Practical Art **GPA:** Regular

This course combines farm management, agribusiness management, and content based on agricultural economic principles. Computer applications are included to enhance student understanding and utilization of current technology. Units include human relations, verbal and written communication, economic principles, farm planning, agribusiness functions, and business management Students will be required to keep a record book on their Supervised Agriculture Experience Project (SAEP).

GREENHOUSE MANAGEMENT

Prerequisites: AG Science I

Grade: 11-12 **Length:** 1 year (Fall Odd Year) **Credit:** 1 Practical Art **GPA:** Regular

This course develops a basic understanding of greenhouse techniques. The production of greenhouse crops will be used to demonstrate procedures such as plants from cuttings, seeds grafts, and layering. Students will manage their own crop as a greenhouse project. There is a \$12.00 FFA fee.

AGRIBUSINESS SALES AND MARKETING AND MANAGEMENT

Prerequisites: AG Science I, Permission

Grade: 11-12 **Length:** 1 year **Credit:** 1 Practical Art **GPA:** Regular

Human relations, personal inventory, careers in selling, and other experiences necessary for employment in agribusiness engaged in marketing, purchasing and storing, grading, and transporting supplies and products. Course Rationale – Agriculture encompasses the food, fiber, conservation, and natural resource system, employing over 20% of the nation's workforce. Application of economics, sales, marketing, and human relation skills are essential for entry-level employment in agribusiness.

BUILDING TRADES/DRAFTING

MECHANICAL DRAFTING-H

Prerequisites: SCCC Application, Mechanical Drafting or Architectural Drafting with instructor approval

Grade: 11-12 **Length:** 1 year **Credit:** 1 Practical Art **GPA:** Regular

This course explores in more detail several advanced concepts aimed at increasing drawing efficiency. The student explores advanced and customizable features of the CAD software to build an efficient, integrated, customized CAD environment.

ARCHITECTURAL DRAFTING

Prerequisites: None

Grade: 10-12 **Length:** 1 year **Credit:** 1 Practical Art (repeatable) **GPA:** Regular

This course introduces the students to the drafting profession and its application as it applies to the world of civil engineering and architectural design. Lab drafting is accomplished using AutoCAD in a state of the art computer lab.

MECHANICAL DRAFTING

Prerequisites: None

Grade: 9-10 **Length:** 1 year **Credit:** 1 Practical Art **GPA:** Regular

This course introduces the student to the drafting profession and its application as it applies to the world of mechanical parts and mechanical parts design. Lab drafting is accomplished using AutoCAD in a state of the art computer lab.

INTRODUCTION TO CARPENTRY I

Prerequisites: Project Fee

Grade: 9-10 **Length:** 1 year **Credit:** 1 Practical Art **GPA:** Regular

This course consists of the study and use of tools, materials, products and processes in woodworking. Workplace safety, problem-solving processes, technology, and careers will be emphasized. Projects will be constructed by applying the principles and techniques learned in class. Students will be expected to pay for project materials provided by the school.

INTRODUCTION TO CARPENTRY II

Prerequisites: Woodworking I, Project Fee

Grade: 10-12

Length: 1 year

Credit: 1 Practical Art

GPA: Regular

This course provides more advanced exploration into the skills and techniques used in woodworking technology. It will consist of demonstrations and discussions of tools, materials, product design, engineering, and processes in woodworking technology. Wood products will be planned and constructed by applying the techniques learned in class. Students will be expected to pay for project materials provided by the school.

BUSINESS

ACCOUNTING I

Prerequisites: None

Grade: 10-12

Length: 1 year

Credit: 1 Practical Art

GPA: Regular

This course is designed to acquaint students with double entry accounting principles for service and merchandising businesses organized as sole proprietorships and partnerships.

ACCOUNTING II

Prerequisites: Accounting I

Grade: 12

Length: 1 year

Credit: 1 Practical Art

GPA: Regular

This course is designed to deal with more advanced accounting principles and analysis of transactions involving corporations. The objective is to give students an overview of generally accepted accounting principles, concepts, and theory underlying the preparation of financial statements and their importance in business.

BUSINESS BASICS

Prerequisites: None

Grade: 10-12

Length: 1 semester

Credit: ½ Practical Art

GPA: Regular

This introductory course provides an overview of the major functions in business with relation to current social, economic, and environmental concerns. In addition, students will have the opportunity to evaluate many business careers.

BUSINESS COMMUNICATION

Prerequisites: None

Grade: 10-12

Length: 1 semester

Credit: ½ Practical Art

GPA: Regular

This class will equip students with the communication tools needed for success in today's workplace. This course also develops an awareness of the importance of succinct written expression to modern business communication. The various types of business communication media are covered.

BUSINESS TECHNOLOGY

Prerequisites: None

Grade: 12

Length: 1 year

Credit: 1 Practical Art

GPA: Regular

The area of instruction benefits students by enhancing the software application skills and communication competencies needed by administrative support professionals and those students continuing their education. This course is designed to help students develop the qualities, knowledge, and skills necessary for working in a business. This is a year-long class for 12th grade only.

COMPUTER APPLICATIONS I

Prerequisites: None

Grade: 9-12

Length: 1 semester

Credit: ½ Practical Art

GPA: Regular

This course provides instruction of computer applications for personal use as well as for use in the technology-based workplace. After an overview of the Windows operating system and file management basics, students will develop skills using Microsoft Office Word, Excel, Publisher, PowerPoint, and Access.

COMPUTER APPLICATIONS II

Prerequisites: Computer Applications I or teacher testing

Grade: 10-12

Length: 1 semester

Credit: ½ Practical Art

GPA: Regular

This course is designed to help students master advanced skills in computer applications. Emphasis is placed on real-life application of these concepts. Students will also be expected to use the internet to: evaluate websites for reliability, be an informed citizen and consumer, and as a resource to solve real-life problems

MULTIMEDIA ARTS

Prerequisites: None

Grade: 9-12

Length: 1 semester

Credit: ½ Practical Art

GPA: Regular

Students will work with multimedia software to develop electronic presentations. They will learn how to manipulate text, art and graphics, photography, animation, audio, and video for presentations in various media formats.

SBE/CAREER READINESS-INTERNSHIP PROGRAM

Prerequisites: SCCC Application, instructor approval

Grade: 12

Length: 1 year

Credit: 1 Practical Art

GPA: Regular

Students who have taken business courses in a particular career path are given the opportunity to work in a related occupation while still enrolled in school. The teacher coordinator works with business and industry to place students in an occupation that will further develop the competencies acquired by the student through class work. This course is limited to grade 12 only.

SBE/INTERNSHIP – (THREE HOUR BLOCK CLASS)**Prerequisites:** SCCC Application**Grade:** 12**Length:** 1 year**Credit:** 1 or 2 Practical Art (credit option 1-2)**GPA:** Regular

This course is a supervised work and training program for high school seniors. Students may attend classes, work in a business office and apply business knowledge, skills and techniques to a specific job situation. This can be paired with Business Technology (1 hour).

SPORTS AND ENTERTAINMENT BUSINESS**Prerequisites:** Business Basics**Grade:** 11-12**Length:** 1 semester**Credit:** ½ Practical Art**GPA:** Regular

Students will research and develop ideas for sports and entertainment businesses.

STOCK MARKET AND BUSINESS LAW**Prerequisites:** None**Grade:** 10-12**Length:** 1 year**Credit:** 1 Practical Art**GPA:** Regular

This course introduces the concept of preparing for the future with a study of the stock market, savings accounts, and other investment options. This course also introduces students to the basics of the legal system of Missouri and the United States.

PERSONAL FINANCE**Prerequisites:** None**Grade:** 10-12**Length:** 1 semester (required for graduation)**Credit:** ½ Practical Art**GPA:** Regular

This WEB-Based course stresses understanding and personal application of fundamental business and economic principles of the free enterprise system

FAMILY AND CONSUMER SCIENCE**CHILD DEVELOPMENT****Prerequisites:** None**Grade:** 11-12**Length:** 1 year**Credit:** 1 Practical Art**GPA:** Regular

This course prepares students to understand children's physical, mental, emotional, and social growth & development, as well as their care and guidance.

FAMILY/CONSUMER RESOURCE MANAGEMENT**Prerequisites:** None**Grade:** 11-12**Length:** 1 year**Credit:** 1 Practical Art**GPA:** Regular

This course prepares individuals to understand the values, needs, goals, and resources that enable youths and adults to make rational decisions that contribute to family stability and quality of life. It includes instruction in budgeting and spending plans, use of credit, savings, investments, taxes, consumer buying, and consumer rights and responsibilities.

FASHION/ CLOTHING CONSTRUCTION**Prerequisites:** Project Fees**Grade:** 9-12**Length:** 1 year**Credit:** 1 Practical Art**GPA:** Regular

This course prepares students to understand the social, psychological & physiological aspects of clothing & textiles; the nature, acquisition, & use of clothing & textile products; the selection, construction, maintenance, & alteration of clothing & textile products.

HOUSING AND INTERIOR DESIGN**Prerequisites:** None**Grade:** 10-12**Length:** 1 year**Credit:** 1 Practical Art**GPA:** Regular

Students are presented with the information necessary to make good housing decisions. They will learn about construction and design and use design to create interior environments.

NUTRITION AND MEAL PLANNING**Prerequisites:** None**Grade:** 9-12**Length:** 1 year**Credit:** 1 Practical Art**GPA:** Regular

This course prepares students to understand the principles of nutrition, the relationship of nutrition to health & wellness, the selection, preparation & care of food, meal management to meet individual & family needs, and food economics & ecology.

PRACTICAL ART OTHER**CREATIVE DESIGN YEARBOOK****Prerequisites:** Application, Instructor permission**Grade:** 11-12**Length:** 1 year**Credit:** 1 Practical Art**GPA:** Regular

This course allows students to learn how to use the latest in graphics software and hardware. Students will design graphics on the computer, then produce the output as needed, such as a decal, vinyl banner, etched glass mug, a T-shirt graphic or full color poster.

MANAGEMENT AND INTERNSHIP – A+ PROGRAM**Prerequisites:** A+ Program Eligible Student, A+ Agreement**Grade:** 11-12**Length:** 1 semester**Credit:** ½ Practical Art (repeatable)**GPA:** Regular

This course is designed to acquaint students with the realities that will come their way when in a job situation. The class is made up of an implementation of *soft skills* in any workplace including: time management, attendance, critical thinking, professional attitude, dress, and communication. Dealing with people

as a leader in a role-model type position, meeting deadlines, logging activities, and communicating with the teacher, the mentor teacher and the students involved are additional skills that must be mastered in this program. The job where students practice such skills is their A+ Tutoring assignment.

GREATER OZARKS ADVANCED PROFESSIONAL STUDIES – GOCAPS

Prerequisites: Application; Permission

Grade: 11-12

Length: 1 year

Credit: 1 to 3 Practical Art

GPA: Regular

The Z-CAPS program gives high school juniors and seniors the opportunity to test drive their future careers, discover their passions, and learn alongside business leaders. It provides real-world, professional skills through a year-long immersive experience at partner businesses across the Ozarks

SOUTH CENTRAL CAREER BLOCK CLASSES

AUTO COLLISION TECHNOLOGY - (THREE HOUR BLOCK CLASS)

Prerequisites: SCCC Application

Grade: 11-12

Length: 1 Year

Credit: 3 Practical Art

GPA: Regular

This course teaches the student skills involving straightening bent frames, removing dents, welding torn metals, replacing damaged parts and repainting partial or whole vehicles.

AUTOMOTIVE TECHNOLOGY - (THREE HOUR BLOCK CLASS)

Prerequisites: SCCC Application

Grade: 11-12

Length: 1 Year

Credit: 3 Practical Art

GPA: Regular

This course allows students to learn the basic fundamentals of the vehicle's working parts, technical requirements of researching service manuals, handling a computer based diagnostic machine, filling out job applications, what it takes to get and keep a job.

BUILDING TRADES - (THREE HOUR BLOCK CLASS)

Prerequisites: SCCC Application

Grade: 11-12

Length: 1 Year

Credit: 3 Practical Art

GPA: Regular

This course allows students to learn erection of all framework, roofing, installation of doors & windows, installation of cabinets, molding, paneling, trim, hardware, building stays, and the hanging of interior/exterior wall materials, molding, paneling, trim, hardware and building stays..

COMMERCIAL ART AND ADVERTISING (TWO HOUR BLOCK CLASS)

Prerequisites: SCCC Application

Grade: 11-12

Length: 1 year

Credit: 2 Practical Art

GPA: Regular

This course allows students to learn how to use the latest in graphics software and hardware. Students will design graphics on the computer, then produce the output as needed, such as a decal, vinyl banner, etched glass mug, a T-shirt graphic or full color poster.

HEALTH SCIENCE CAREERS I (THREE HOUR BLOCK COURSE)

Prerequisites: None

Grade: 11-12

Length: 1 year

Credit: 3 Practical Art

GPA: Regular

This course is designed so that students become more skilled in such areas as basic patient care, office reception, anatomy & physiology, medical terminology, math for health careers, legal and ethical issues in the health field, and career exploration. Class size is limited and priority is given to juniors. Seniors may enroll if space permits.

HEALTH SCIENCE CAREERS II (THREE HOUR BLOCK COURSE)

Prerequisites: None

Grade: 12

Length: 1 year

Credit: 3 Practical Art

GPA: Regular

This course is designed so that students become more skilled in such areas as basic patient care to become certified as a nursing assistant. Students will have 100 hour of clinical time in a nursing facility, maintain an 80% on tests, and have good attendance (95%). At the end of the course, students will be eligible to test for C N A Certification. This class is limited to 15 students in this block. Health Science career I is not a prerequisite, but it is recommended.

INFORMATION TECHNOLOGY - (THREE HOUR BLOCK COURSE)

Prerequisites: SCCC Application

Grade: 11-12

Length: 1 Year

Credit: 3 Practical Arts

GPA: Regular

Information Technology program is a two-year program for juniors and seniors that will focus on client computing/user support, database & information management, digital media & immersive technology, networking & convergence, programming & application development, servers, storage, & virtualization, and essential workplace skills. The program will include the opportunity to earn at least one industry-recognized credential.

MACHINE TECHNOLOGY-(THREE HOUR BLOCK CLASS)

Prerequisites: SCCC Application

Grade: 11-12

Length: 1 Year

Credit: 3 Practical Arts

GPA: Regular

This course is designed to operate machine tools such as, lathes mills, grinding machines, drilling machines, cut off machines, polishing and buffing machines, boring mills and shapers. Also included are machines with computer controls built into them. (Linn State Technical College articulation credit)

CULINARY ARTS - (THREE HOUR BLOCK COURSE)

Prerequisites: SCCC Application/ Instructor Approval

Grade: 11-12

Length: 1 year

Credit: 3 Practical Arts

GPA: Regular

This course is designed to train students for employment entry in the growing field of food service and hospitality. Course work covers basics in preparing & serving food, basic nutrition, sanitation, dietetics, equipment use and maintenance, and food display and presentation.

PHARMACY TECH (THREE HOUR BLOCK)

Prerequisites: None

Grade: 12

Length: 1 year.

Credit: 2 Practical Arts

GPA: Regular

This is a one year course designed for high school seniors. It is a two-hour block class. Instruction will cover basic pharmacology and body structures with medical terminology. This course provides the students with the opportunity to develop leadership skills, therapeutic communication, in-depth understanding and the ability to communicate using medical terminology, problem-solving, and successful work ethic necessary to become a pharmacy technician. This course prepares students for certification following completion of the class.

WELDING TECHNOLOGY - (THREE HOUR BLOCK CLASS)

Prerequisites: SCCC Application

Grade: 11-12

Length: 1 Year

Credit: 3 Practical Arts

GPA: Regular

This course is designed to provide the graduate with the knowledge in industrial mathematics, mechanical drawing, blue print reading and industrial safety in addition to metallurgy and the different disciplines in welding.

OTHER

STUDY SKILLS

Prerequisites: None

Grade: 9-12

Length: 1 Semester

Credit: ½ Elective (Repeatable)

GPA: Regular

This is a study hall like course that will focus on one studying skill each week.

ACT PREP

Prerequisites: None

Grades: 10-12

Length: 1 Semester

Credit: ½ Elective

GPA: Regular

This semester course is open to seniors first and then juniors. This course will prepare students to take the ACT test or help them to improve their ACT scores. A variety of texts and websites will be used by the instructor to cover test taking strategies and content based knowledge found on the test.

STUDENT COUNCIL LEADERSHIP

Prerequisites: Recommendation from activity sponsor

Grades: 11-12

Length: 1 year

Credit: 1 Elective

GPA: Regular

Active and productive students will be given the opportunity to develop leadership qualities by participating in district leadership opportunities. This course provides an opportunity to study, practice and develop group and individual leadership and organizational skills. These skills include but are not limited to the following topics or areas: leadership roles, interpersonal relations, project planning, goal setting, civic responsibility, decision making, problem solving, meeting skills, and communication.

ONLINE LEARNING LAB – College Credit

Prerequisites: Recommendation; parent permission; placement test score

Grades: 11-12

Length: 1 year

Credit: Varies

GPA: Varies

This program is offered in cooperation with Missouri State University-West Plains. Eligible students may choose from College Algebra (MTH 135), College English (ENG 110), or College Public Speaking (COM 115). The courses will be web-based, created by the university, and facilitated by a WPHS instructor. Students will receive college credit for these courses through MSU-West Plains. Students are required to pay a fee for this course.

LIBRARY MEDIA

Prerequisites: Application; Permission

Grades: 11-12

Length: 1 year

Credit: 1 Elective

GPA: Regular

This course will place emphasis on the development of library skills, communication skills, reading skills and computer skills through the use of on the job training. This course is an excellent choice as an elective for college-bound students as well as those headed directly for the work place.

MILITARY SCIENCE

Prerequisites: Application; Permission

Grades: 9-12

Length: 1 year

Credit: 1 Elective

GPA: Regular

This course is designed to teach values associated with responsible citizenship. You will learn and apply leadership and human relations skills, communication skills, and an appreciation for teamwork and self-discipline. Emphasis is placed upon integrity, responsibility, and respect for each other and authority.

JAG – JOBS FOR AMERICA'S GRADUATES

Prerequisites: None

Grade: 11-12

Length: 1 year

Credit: 1 credit

GPA: Regular

Jobs for America's Graduates (JAG) is a state-based national non-profit organization dedicated to preventing dropouts among young people who have serious barriers to graduation and/or employment. In more than three decades of operation, JAG has delivered consistent, compelling results – helping over one million young people stay in school through graduation, pursue postsecondary education and secure quality entry-level jobs leading to career advancement opportunities.

COLLEGE AND CAREER READINESS (MSU- IDS 110)

Prerequisites: None

Grade: 12

Length: 1/2 year

Credit: 1/2 (Dual Credit)

GPA: Regular

IDS 110 Student Success The purpose of IDS 110 is to assist the new student in making a successful transition to Missouri State University-West Plains, both academically and socially, and toward the completion of the student's academic goals. This course introduces students to the educational goals of the University and aims to foster a sense of belonging, promote engagement in both curricular and extracurricular activities, and encourage life-long learning. The course also seeks to help students develop and apply essential study skills, information management, enhance critical thinking and communication skills, explore interests, abilities, values, and connect degree and career planning. Students are challenged to enhance their intellectual potential, understand their academic and social responsibilities, and appreciate diversity in an environment that supports their intellectual, personal and social development.

Zizzer Success

Prerequisites: Must be Recommended by Teacher, Counselor or Administrator

Grades: 9

Length: 1 year

Credit: 1 Elective

GPA: Regular

Summer School Zizzer Success supports incoming freshmen in their transition to West Plains High School. This unique learning opportunity provides an additional structure with highly qualified teachers that truly make a difference for students. The course will focus on content-area reading skills, team building, interpersonal skills, study skills, and provide multiple opportunities for students to transition into high school and become more familiar with the building. This class helps students learn what it means to be a Zizzer and helps with the transition into 9th grade.

PROJECT LEAD THE WAY (PLTW)

PRE-ENGINEERING, BIOMEDICAL, AND COMPUTER SCIENCE ELECTIVES

PLTW courses require students be enrolled in an Algebra I class or higher. They also require students be more independent than the traditional class and require mastery of a large variety of soft skills (ability to work with others, public presentation skills, efficient use of a variety of software programs, ability to be a self-starter, etc)

PLTW Engineering--Introduction to Engineering Design (IED)

Prerequisites: Concurrent with or Completion of Algebra I, Algebra I Part 2 or Completion of Algebra Concepts

Grade: 9-12

Length: 1 year

Credit: 1 Practical Art

GPA: Regular

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work.

PLTW Engineering—Principles of Engineering (POE)

Prerequisites: : Introduction to Engineering Design PLTW IED

Grade: 10-12

Length: 1 year

Credit: 1 Practical Art

GPA: Regular

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, 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.

PLTW Aerospace Engineering

Prerequisites: Introduction to Engineering Design PLTW IED

Grade: 10-12

Length: 1 year

Credit: 1 Practical Art

GPA: Regular

This course propels students' learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles. (Prerequisite: Introduction to Engineering Design & Completion of Algebra I)

PLTW Biomedical—Principles of Biomedical Science (PBS)

Prerequisites: Concurrent or Completion of Biology I

Grade: 9-12

Length: 1 year

Credit: 1 Practical Art

GPA: Regular

In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

PLTW Human Body Systems

Prerequisites: Recommended but not required, PLTW Principles of Biomedical Science (PBS) ,

Grade: 10-12

Length: 1 year

Credit: 1 Practical Art

GPA: Regular

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis in the body. Exploring science in action, students build organs and tissues on a skeletal Manikin®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

PLTW Medical Interventions

Prerequisites: PLTW Principles of Biomedical Science (PBS) or *Human Body Systems* , (HBS)

Grade: 10-12

Length: 1 year

Credit: 1 Practical Art

GPA: Regular

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

PLTW Computer Science Essentials

Prerequisites: none

Grade: 9-12

Length: 1 year

Credit: 1 Practical Art

GPA: Regular

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. This course can be a student's first course in computer science, although we encourage students without prior computing experience to start with Introduction to Computer Science. CSE helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. This course aligns with the AP Computer Science Principles course.

PLTW Computer Science Principles

Prerequisites: PLTW Computer Science—Computer Science and Software Engineering

Grade: 9-12

Length: 1 year

Credit: 1 Practical Art

GPA: Regular

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. PLTW is recognized by the College Board as an endorsed provider of curriculum and professional development for AP® Computer Science Principles (AP CSP). This endorsement affirms that all components of PLTW CSP's offerings are aligned to the AP Curriculum Framework standards and the AP CSP assessment.

PLTW Cybersecurity

Prerequisites: PLTW Computer Science—Computer Science Essentials or MS PLTW Computer Science 1 &2)

Grade: 9-12

Length: 1 year

Credit: 1 Practical Art

GPA: Regular

Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.