

# COURSE DESCRIPTIONS

## (2020-2021)

### **Communication Arts**

#### ***LANGUAGE ARTS 1 - Grade 9 (1 Credit - English)***

Language Arts I is a communication arts class which focuses on skills needed to successfully complete required language arts classes in high school. Students will use learned skills to question and analyze literature as well as navigate complex informational text. Response to literature, along with student-led inquiry and research, will form the basis of writing instruction. Writing products include constructed responses, multi-paragraph essays, and research projects.

#### ***COLLEGE PREP LANGUAGE ARTS I - Grade 9 (1 Credit - English)***

***Prerequisites: "A" in 8th grade Language Arts Course or teacher recommendation and sample composition that supports student performance.***

College Prep Language Arts I is a first-year required course for high school communication arts. It is a more advanced level of study designed to prepare students for upper-level college prep classes and college. Emphasis will be placed on higher order thinking and higher student performance with more complex projects and assignments. Students will read and analyze a higher level of literature. Writing instruction will be accelerated with the completion of analytical multi-paragraph essays, one research project, and emphasis on more complex writing skills. Usage, mechanics, and vocabulary skills will focus on preparation for the ACT. Speaking skills needed in the discussion will also be emphasized.

#### ***LANGUAGE ARTS II - Grade 10 (1 Credit - English)***

***Prerequisite: Language Arts I***

Language Arts II will build on previously learned skills in Language Arts I and introduce important new objectives. World literature studies include short stories, poems, novels, and various non-fiction historically-related works. Throughout the year, emphasis will be placed on vocabulary, grammar, and literary analysis writing skills. Students will be required to complete a research paper during the second semester. Students will complete the state of Missouri's Communication Arts End of Course exam as part of this course.

#### ***COLLEGE PREP LANGUAGE ARTS II – Grade 10 (1 Credit - English)***

***Prerequisites: Eighty-five percent or above in the first three-quarters of College Prep Language Arts I or teacher recommendation and sample composition that supports student performance.***

College Prep Language Arts II is intended to develop and refine the skills already acquired in College Prep Language Arts I. At the forefront of the curriculum is a deeper critical and comparative analysis of literature, a more in-depth study and practice of writing strategies and applications, the incorporation of technology into writing assignments and multimedia presentations, and an accelerated study of vocabulary and grammar. World literature studies include short stories, poems, novels, and various non-fiction historically-related works. Students will be required to complete a research paper during the second semester. Students will complete the state of Missouri's Communication Arts End of Course exam as part of this course.

### **LANGUAGE ARTS III - Grade 11 (1 Credit - English)**

#### **Prerequisites: Language Arts I & II**

Language Arts III is the third year required course for high school communication arts and is primarily a study of American Literature. This course focuses on the analysis and interpretation of literature. Writing includes a wide range of skills from responding to literature, open-ended constructive responses, and persuasive writing to conducting in-depth research culminating in a formal research paper. Usage, mechanics, and vocabulary skills will be studied in preparation for the ACT test. This course offers technical writing skills with preparation for a professional job interview, completion of a cover letter, resume, reference list, and employment application, and participation in a job-shadowing day.

### **COLLEGE PREP Language Arts III - Grade 11 (1 Credit - English) Weighted Class**

#### **Prerequisites: Eight-five percent or above in the first three-quarters of College Prep English II or teacher recommendation and sample composition that supports student performance.**

College Prep Language Arts III is the third year required course for high school communication arts. It is a more advanced level of study designed to prepare students who intend to take College Composition in grade 12. Emphasis is placed on higher levels of student performance with more complex assignments; students will read and analyze greater levels of American Literature, conduct in-depth research culminating in a formal research paper, develop speaking skills needed in discussions, and write literary and rhetorical analysis of greater difficulty. Usage, mechanics, and vocabulary skills are studied in preparation for the ACT test. This course offers technical writing skills with preparation for a professional job interview, completion of a cover letter, resume, reference list, and employment application, and participation in a job-shadowing day. While enrolling in College Prep Language Arts III does not guarantee admission to the College Composition course, the more rigorous training in analytical reading and writing will prepare students for a more advanced level of curriculum.

### **LANGUAGE ARTS IV - Grades 12 (1 Credit - English)**

#### **Prerequisite: Language Arts I, II, & III**

Language Arts IV is designed to provide experiences, which prepare students for the workplace or technical training. Special emphasis will be placed on technical writing with language and computer skills stressed. British and European literature will be used as the basis to illustrate the personal skills needed to succeed in the working world.

A particular focus is the senior project paper, a graduation requirement. The senior project provides for each senior student the forum in which to demonstrate the knowledge gained in twelve years of educational experience. Reading, writing, speaking, thinking, planning and implementation, problem-solving, and use of organizational skills are showcased in the project process.

### **COLLEGE PREP LANGUAGE ARTS IV – Grade 12 (1 Credit - English) Weighted**

#### **Prerequisite: Eighty-five percent or above in the first three-quarters of College Prep Language Arts III or teacher recommendation and sample composition that supports student performance.**

College Prep Language Arts IV is the combination of the fourth year required course for high school curriculum relating to the development of oral and written communication skills and a more advanced level of study designed to prepare students for the rigors of post-secondary writing. Emphasis is placed on higher levels of student performance to help students become skilled readers of prose and skilled writers who can compose for a variety of purposes. Students will read and respond to British and European literature from Anglo-Saxon times through the 21st Century. Upon completion of the course, students will receive weighted grade points per district policy.

A particular focus is the senior project paper, a graduation requirement. The senior project provides for each senior student the forum in which to demonstrate the knowledge gained in twelve years of educational experience. Reading, writing, speaking, thinking, planning and implementation, problem-solving, and use of organizational skills are showcased in the project process.

***COLLEGE COMPOSITION 110 & 221 (DUAL CREDIT ENGLISH) - Grade 12  
(1 Credit WSHS and 6 Credits Missouri State University-West Plains) Weighted Class  
Prerequisite: G.P.A. of 3.0 or higher and placement exam***

In Composition 111, students will continue to hone their writing, reading, and oral language skills. In addition to imaginative literature and popular culture, content will focus on British and European Literature as students read more novels and literary works, write more essays, and analyze with greater sophistication. Composition 221 will continue to develop strong writing traits, while also incorporating the Senior Project. The WSHS Senior Project consists of research and writing, creation of a physical product, and presentation of the research and product during Senior Project Night. Both courses are for college credit and students should expect a more in-depth and rigorous level of course work from a traditional high school class. Tuition and books for this dual credit course will be the responsibility of the student through Missouri State University West Plains.

***ACADEMIC LITERACY – Grade 9, 10, 11, & 12 (1 Credit - Elective)***

This class is designed to provide additional reading instruction for any students without IEPs falling below grade level reading scores on the iReady test. Enrollment is limited to 12 students per class.

***NOVELS – Grades 9, 10, 11 & 12 (½ Credit - Elective)***

This course is designed for the student who enjoys reading but has no time to read. Students will read a required amount of pages per quarter, keep a reading log, and participate in book talks. A book project will be required at the end of the semester. Students are only allowed to take the course for two semesters.

***POETRY – Grades 9, 10, 11 & 12 (½ Credit - Elective)***

This course is designed for the student who enjoys writing and reading poetry. The student will study various poets' styles and will develop his/her own voice and style. The final project will be to create an anthology of poetry. Students may take this class only once.

***FILM LITERACY – Grades 9, 10, 11 & 12 (½ Credit - Elective)***

The objective of this class is to give you, the student, an understanding of film and the ability to hone your interpretive skills when viewing the film. Along with learning basic terminology for discussing a film in critical terms, the student will also use their analytical skills in writing to evaluate films. Key concepts and elements of literature will be covered through a variety of films: literary elements, shot angle and camera work, theme, plot outlines, character development, story development, a point of view, and others. Since this class will have very little outside homework, your attendance in class will have an effect on your ability to complete your assigned tasks. If you are absent from class on a day that we view a film or work on a project, you will need to make arrangements with the teacher to stay after school and make-up the material that you missed in class.

***CONTEMPORARY LITERATURE – Grades 9, 10, 11 & 12 (1 Credit - Elective)***

This course is designed for the student who enjoys reading but has no time to read. Students will read books that have been published in the last seven years. Students will read a required amount of pages per quarter, keep a reading log, and participate in book talks. A book project will be required.

***CREATIVE WRITING – Grades 9, 10, 11, & 12 (½ Credit - Elective)***

This course is a writing workshop. Students will write every day and they will explore different writing techniques and styles. Writing skills will be developed through pre-writing, editing, revising and critiquing. Students will also examine various styles of writing by reading both well-known and obscure writers of poetry, songs, newspaper columns, short stories, novels, plays, monologues, dialogues, haiku, and reviews. Goals will be met through a variety of reading, writing, and speaking activities. Additionally, students must be willing to share their work with the class. Students will be asked to critique their own work and the work of others in a constructive manner. Students will research successful authors to determine the authors' secrets to success.

***EXTENDED CREATIVE WRITING - Grades 9, 10, 11 & 12 (1 Credit-Elective)***

This course is a writing workshop. Students will get to see what steps an author takes when writing a book, from idea creation through publishing. Students will explore writing in multiple genres before writing their own multi-chapter book. Writing skills will be developed through pre-writing, editing, revising and critiquing. Additionally, students must be willing to share their work with the class. Students will be asked to critique their own work and the work of others in a constructive manner. Students will research successful authors to determine the authors' secrets to success.

***JOURNALISM – Grades 9, 10, 11, & 12 (1 Credit - Elective)***

***Prerequisite: Instructor Permission Required***

Students will produce the Willamizzou yearbook. Skills include computer graphics, photography, and copy-writing. Instructor permission is required to enter this course.

***FOLKLORE - Grades 9, 10, 11, & 12 (½ Credit - Elective)***

This semester course will expose students to the folklore of various cultures and make students aware of the timeless tales and legends that influence tradition. The primary emphasis of this course will be on local folklore. Students will expand their learning experiences of music, art, language, and customs through field trips and reading works of literature.

***MYTHOLOGY - Grades 9, 10, 11, & 12 (½ Credit - Elective)***

This semester course will expose students to the mythology of several cultures and make students aware of the timeless human interests paralleling their own. The primary emphasis of this course will be on Greek and Norse mythology. Students will expand their learning experiences through works of literature and video presentations..

***GREAT BOOKS I - Grades 9, 10, 11, & 12 (½ Credit - Elective)***

This semester course will expose students to some of the greatest books in literature. Students will read and discuss books and view representations in films that have provided numerous arguments for debate and analysis throughout time and learn how to discern truth, distinguish error, and defend arguments.

***GREAT BOOKS II - Grades 9, 10, 11, & 12 (½ Credit - Elective)***

This semester course will expose students to some of the greatest books in literature. Students will read and discuss books and view representations in films that have provided numerous arguments for debate and analysis throughout time and learn how to discern truth, distinguish error, and defend arguments.

***SCIENCE FICTION LITERATURE I & II– Grades 9, 10, 11 & 12 (½ Credit - Elective)***

Students will survey the literary genre of science fiction. Students will read works of science fiction and view various representations in film and television.

***BIBLE LITERATURE - Grades 9, 10, 11, & 12 (½ Credit - Elective)***

Bible Literature will examine the Bible as a work of literature. Elements of literature such as figurative language, theme, and text structure will be covered with the Bible as the text. Historical elements of the Bible will also be studied as this will help in understanding the cultural significance of the events and stories in the text.

***SPEECH - Grade 12 (½ Credit-Required class for all seniors-Spring semester of senior year)***

Speech is designed to increase the student's ability to speak distinctly and intelligently, as well as, improve listening and thinking abilities. This course will introduce students to the basic aspects of general speech. Primary emphasis will be given to these oral communication skills: informative speech, to include delivery and visual aid skills. Students will present Informative, Instructional, Problem/Solution or Persuasive, and their Sr. Presentation speeches in class. The students will learn skills that will help them create visual aids, and are required to do PowerPoint presentations.

***FUNDAMENTALS OF PUBLIC SPEAKING COM 115 – Grade 12 (½ Credit WSHS and 3 Credits Missouri State University-West Plains - Spring semester of senior year) Weighted Class***

Speech is designed to increase the student's ability to speak distinctly and intelligently, as well as, improve listening and thinking abilities. This course will introduce students to the basic aspects of general speech. Primary emphasis will be given to these oral communication skills: Informative, Instructional, Problem/Solution or Persuasive, and their Sr. Presentation speeches in class. Students will also be creating visual aids, and PowerPoint presentations to use with their speech presentations.

***DEBATE - Grades 9, 10, 11 & 12 (1/2 Credit-Elective)***

In this course students will be learning the foundations of Public Forum Debate and Extemporaneous Speaking. Students will be investigating current events domestic and foreign. The course combines research, note taking, debate, and public speaking. The course is beneficial to all students but highly recommended for those pursuing a career in the law field. Students have the option to compete at tournaments, but it is not a requirement for the course. This class is a tandem class with Contemporary Issues, meaning students will rotate between these two classes. Furthermore, every two weeks students will report to Contemporary Issues, rather than Debate, to learn additional material in the areas of government, propaganda, and bias from the Social Studies Department. After two weeks students will report back to Debate to utilize the new material for another two weeks (i.e. If a student starts in Debate the student will remain in this class for the first two weeks and then report to Contemporary Issues for weeks four and five continuing this pattern throughout the semester.

***ORAL INTERPRETATION - Grades 9, 10, 11 & 12 (1 Credit-Elective)***

The course emphasizes competitive speaking in humorous/dramatic/program oral interpretation, duet acting, duo interpretation, poetry, prose, storytelling, extemporaneous speaking, informative speaking, original oratory, radio speaking, with a possibility of Lincoln-Douglas Debate, Public Forum Debate, and Student Congress as well. **Students will be required to travel to competitions. Some of those competitions will require students to stay overnight. The student must refund the tournament fee (\$8.00) to the school for failure to attend a competition they were signed up to compete in, and failed to notify the teacher prior to the drop date or was a no show, unless in case of emergency or sudden illness.**

## Foreign Language

### ***SPANISH I - Grades 9, 10, & 11 (1 Credit - Elective)***

***Prerequisite: Passing English the previous year with a "C-" or better***

This is an introductory course designed to create basic Spanish communication skills in four basic areas: speaking, reading, writing and listening. Activities are based on life communication skills, cultural themes, and authentic tasks.

### ***SPANISH II - Grades 10, 11 & 12 (1 Credit - Elective)***

***Prerequisite: Passing Spanish I the previous year***

This elective course is designed to further oral and written communication skills in Spanish. Application of language and cultural concepts to real-life situations communication skills is an integral part of this program.

### ***SPANISH III - Grades 11 & 12 (1 Credit - Elective) Weighted Class***

***Prerequisites: Passing Spanish II the previous year***

This course continues to expand and enhance Spanish communication skills with a deeper emphasis in language structure through cultural and realistic experiences.

### ***SPANISH IV - Grade 12 (1 Credit - Elective) Weighted Class***

***Prerequisite: Spanish III and permission from the instructor***

This course continues with advanced grammar, authentic conversation opportunities, and reading in Spanish with cultural and realistic experiences.

### ***RUSSIAN I – Grades 9, 10, 11 & 12 (1 Credit - Elective)***

***Prerequisite: Passing English the previous year with a "C-" or better***

This course is designed to help students develop basic language skills necessary to communicate effectively in Russian in most everyday situations. Emphasis is also placed on cultural enrichment of students.

### ***RUSSIAN II - Grades 10, 11 & 12 (1 Credit - Elective)***

***Prerequisite: Good academic standing and a "C" grade or better in Russian I***

This course continues advancing the student's Russian language skills. It offers more insight into grammatical structures, punctuation, and syntax, as well as promotes adequate conversational skills.

### ***RUSSIAN III - Grades 11 & 12 (1 Credit)***

***Prerequisite: Good academic standing and a "B" grade or better in Russian II***

This course offers advanced grammar, punctuation, and syntax, as well as promotes superior conversational skills.

### ***RUSSIAN IV - Grade 12 (1 Credit)***

***Prerequisite: Good academic standing and a "B" grade or better in Russian III***

This course offers initial translation training, authentic speech opportunities, as well as promotes exceptional grammar and conversational skills.

## **Social Studies**

### ***WORLD HISTORY - Grade 9 (1 Credit – Social Studies)***

#### ***Required for 9th Graders***

In this course, students will explore major world events, issues, and trends from the Renaissance Period up to and including WWI & WW2. Special emphasis is given to relationships between world history and United States history, how past developments impact our world history & US history, and how past developments impact our world today. The knowledge and skills acquired in this course will assist students as they progress throughout their HS history courses & EOC exams.

### ***AMERICAN HISTORY - Grade 10 (1 Credit – Social Studies)***

#### ***Required for 10th Graders not enrolling in HST 121/122 [Students should NOT take both American History and HST 121-122]***

After a review of American History prior to 1865, this course will concentrate on 1865 to the present, covering such topics as Reconstruction, the West, industrialization, immigration, empire building, the Progressive Era, the World Wars, the Great Depression, the Cold War and beyond. This is an important class in helping students understand and appreciate the rights and freedoms we possess as Americans.

Dual-credit HST 121/122 serves as a replacement for this course for students seeking college credit. Students should be advised of the advanced difficulty and reading/writing requirements before choosing dual-credit history.

### ***HISTORY 121 & 122 (DUAL CREDIT AMERICAN HISTORY) - Grades 11 & 12***

#### ***(1 Credit WSHS Social Studies and 6 Credits Missouri State University-West Plains) Weighted Class***

#### ***Prerequisite: G.P.A. of 3.0 or higher***

Fulfills American History requirement in place of 10th Grade American History

This course is a survey of the history of the United States. Unlike American History, this class will cover all of American History from pre-colonial times to the present. Because the course qualifies for college credit, students should expect a more in-depth and rigorous level of course work than they would expect from a traditional high school class. Students should expect daily reading assignments outside of class. Tests and assignments will most often be in the form of lengthy essays that demonstrate the student's grasp of concepts covered. Tuition and books for this dual credit course will be the responsibility of the student through Missouri State University-West Plains.

### ***AMERICAN GOVERNMENT – Grade 11 (1 Credit – Social Studies)***

#### ***Required for 11th Graders***

In order to complete the requirements of a highschool graduate as per the state of Missouri, students must pass a United State Constitution and Missouri Constitution test with a minimum score of 70% and a United States Citizenship Test with a minimum score of 60%. These tests will be administered within the American Government course. The American Government End of Course exam (EOC) comprises 10% of the students 2nd-semester grade. The EOC is mandated and provided to the school via the state of Missouri.

This course is designed to help students gain knowledge of the foundations, organizational structure, dynamics, and complexities of the United States political system and develop effective citizenship skills.

The course focuses on the principles, institutions, and processes of governmental structures. Comparisons are made between federal, state, and local governments, as well as comparing our government with the government of other countries. The highlights of this class include guest appearances by current political office holders and the actual observance of a criminal court case and governmental issues as they currently relate to the state of the American Government. The ultimate goal of this class is to help students develop a positive view of government and become respectful, productive citizens of society who make informed responsible political decisions.

***SOCIOLOGY - Grades 9, 10, 11, & 12 (½ Credit – Elective)***

Sociology is the study of human social relationships and institutions. Sociology's subject matter is diverse, ranging from crime to religion, from the family to the divisions of social class to the shared beliefs of a common culture, and from social stability to radical change in whole societies.

Students will examine these various institutions through observations, case studies, lecture, vocabulary, and research. Students will work on small group projects and independent activities that will help gain an understanding as to why groups react to different situations like they do.

***ARCHAEOLOGICAL INVESTIGATIONS - Grades 9, 10, 11 & 12 (½ Credit - Elective)***

Archaeology is the study of human activity through the recovery and analysis of ancient cultures. Archaeological Investigations will offer the student the opportunity to embark on the adventure of a hands-on learning based class that includes participating in archeological digs via visits to local archeological dig sites. (When available) This class will also give the learner the opportunity to become the teacher as we will extend this learning opportunity by recreating the dig experience for younger grades. The learner objective is to gain an understanding of the importance of how past generations lived via studying artifacts and how that influences today's generations.

***LAW AND YOU - Grades 9, 10, 11 & 12 (½ Credit - Elective)***

Practical applications of law and how law relates to you the citizen is the main focus of this course. Other areas of interest will be within the realms of Street Law, Juvenile Law, Criminal Law, Environmental Law, Constitutional Law, International Law, Maritime Law, and Laws within the United States and how they compare and contrast to the laws of other nations.

***CONTEMPORARY ISSUES - Grades 9, 10, 11 & 12 (½ Credit - Elective)***

Contemporary Issues introduces students to various issues facing the world today, beginning with formulating an understanding of bias and propaganda. Students will explore global economic systems, human rights, world health, environmental issues, and the role of the United States and the United Nations in a changing world. This class is designed to eliminate much of the confusion surrounding these issues and allow students to form their own opinions on matters that affect their world. Students will evaluate the issues and propose solutions from a variety of perspectives. This course is a tandem class that will rotate every two weeks with Ms. Martin's Debate class. Students from each class every two weeks will change and report to the other class. (i.e. If a student starts in Contemporary Issues the student will remain in this class for the first two weeks and then report to Debate for weeks four and five continuing this pattern throughout the semester.)

***PSYCHOLOGY - Grades 10, 11, & 12 (1 Credit - Elective)***

Psychology is a rigorous, year-long course designed to help students develop an understanding of human behavior, how it develops and how it is studied. Topics to be stressed include psychological research, the brain and nervous system, human growth and development, personality, thinking, learning, motivation and behavior disorders. Students will learn that psychology is more than just a study of the mind.

# **Mathematics**

## ***PRE-ALGEBRA – Grade 9 (1 Credit - Mathematics)***

***Prerequisites: By Teacher Recommendation ONLY (Must get approval from a representative of the HS math department)***

Pre-Algebra is the basis for the rest of the mathematics courses you will have in high school. During the year, we will cover topics such as, the language of algebra, operations with integers, operations with rational numbers, and powers and roots..

## ***ALGEBRA IA - Grades 9, 10 (1 Credit - Mathematics)***

***Prerequisites: Pre-Algebra or Teacher Recommendation***

This class covers the same material as the first half of Algebra I. During the year, we will cover topics such as, expressions, functions, linear equations, nonlinear functions, equations of linear functions, and linear inequalities. Students will not take an EOC until they complete Algebra IB or Algebra I.

## ***ALGEBRA IB - Grades 9, 10 (1 Credit - Mathematics)***

***Prerequisites: Algebra 1A***

During the year, we will cover topics such as systems of equations/inequalities, exponential functions, polynomials, quadratics, and statistics. These are the topics in the second half of Algebra I. Students will not take an EOC until they complete and pass Algebra IB or Algebra I.

## ***ALGEBRA I - Grades 8, 9, 10, 11 & 12 (1 Credit - Mathematics)***

***Prerequisites: Pre-Algebra or Teacher Recommendation***

During the year, we will cover topics such as, expressions, functions, linear equations, nonlinear functions, equations of linear functions, linear inequalities, systems of equations/inequalities, exponential functions, polynomials, quadratics, and statistics. Each student who passes Algebra I will take an end of course exam that will be 10% of their final semester grade. Students must receive a proficient or advanced on their Algebra I EOC in order to qualify for A+.

## ***GEOMETRY - Grades 9, 10, 11 & 12 (1 Credit - Mathematics)***

***Prerequisites: Algebra I***

Students will use reasoning and logic to study the Euclidean system of lines, angles, triangles, quadrilaterals, polygons, circles, area, and volume. This will also include constructions, transformations, proofs, and trigonometry. The purpose is to be able to utilize geometric concepts in the real world and in future studies while continuing to practice algebra skills. (This can be taken at the same time as Algebra II with instructor permission.)

## ***ALGEBRA II - Grades 10, 11 & 12 (1 Credit - Mathematics)***

***Prerequisites: Algebra I and Geometry (can be taken concurrently with Algebra II with instructor approval)***

Students will review Algebra I quickly and move on to topics such as polynomials, complex number system, matrices, logarithms, probability, and minimal trig. The purpose is to teach students the mathematical language that enables interdisciplinary problem solving and success in college math courses.

**PROBABILITY & STATISTICS - Grades 11 & 12 (1 Credit - Mathematics)**

**Prerequisites: Algebra II**

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.

**(MATH ANALYSIS) MTH 137 Pre-Calculus I: Trigonometry – Grades 11 & 12 (1 Credit WSHS Mathematics and 3 Credits Missouri State University-West Plains) Weighted Class**

**Prerequisites: Grade of 'C' or better in MTH 136 or teacher recommendation**

Students will investigate such areas as circular and triangular trigonometry; trigonometric and inverse trigonometric functions; trigonometric identities and proofs; solving trigonometric equations; vectors and polar coordinates; pre-calculus, analytic geometry, and other related topics. The purpose is to explore mathematics, to prepare students who plan to go into math-related careers and provide a foundation for the study of calculus.

**PRE-CALCULUS I: Algebra (MTH 136) (DUAL) – Grades 11 & 12 (1 Credit WSHS Mathematics and 3 Credits Missouri State University-West Plains) Weighted Class**

**Prerequisites: Algebra II, G.P.A. of 3.0 or higher and college placement test**

Students will learn linear and quadratic equations, inequalities and their applications; polynomial, rational, exponential and logarithmic functions; systems of equations. Math 135 will not count toward the mathematics major or minor in college. Tuition and books for this dual credit course will be the responsibility of the student through MSU-West Plains.

**MATH FLOW CHART**

	Route 1	Route 2	Route 3	Route 4
<u>9th Grade</u>	Pre-Algebra	Algebra IA	Algebra 1	Geometry
<u>10th Grade</u>	Algebra IA	Algebra IB	Geometry	Algebra II
<u>11th Grade</u>	Algebra IB	Geometry	Algebra II	MA / MTH135 /PROB & STAT
<u>12th Grade</u>	Geometry	Algebra II	MA / MTH135 /PROB & STAT	MA / MTH135 /PROB & STAT

***\*Any deviation from this plan must have department approval***

## **Science**

### ***PHYSICS FIRST - Grades 9 (1 Credit - Science)***

This is a required science class for 9<sup>th</sup> grade students. Physics First is the study of the natural laws that occur throughout the universe.

### ***INTRODUCTION TO CHEMISTRY - Grade 10 (1 Credit - Science)***

Conceptual Chemistry is the required science course for sophomores. This class is designed so that students master the basic principles that explain matter and how it behaves. The class includes a wide range of conceptual chemistry topics from understanding the Periodic table and its elements to balancing chemical reactions. Pre-algebraic math problems will be used in class. Laboratory skills and safety procedures will be introduced and practiced.

### ***BIOLOGY I - Grades 11 (1 Credit - Science)***

Biology is the required science class for juniors. Biology is considered a life science because it involves living organisms. The course includes topics such as cellular biology, growth and development in living organisms, genetics and inheritance of traits, natural selection and adaptation, ecosystem interactions and energy flow, and human impact on natural resources. Students will be required to complete an end of course exam in biology for the state of Missouri.

### ***CHEMISTRY - Grades 11 & 12 (1 Credit - Science) Weighted Class***

***Prerequisite: Must have the permission of the instructor, a minimum semester grade of "B" in Intro to Chemistry and Algebra I.***

Chemistry is a fast-paced study of the chemical nature of matter. Students taking this course should have a strong interest in chemistry or plan to pursue an academic/career in the science field. The course covers all the *Introduction to Chemistry* topics in much more depth and continues to challenge students with more advanced topics. A few new topics include bonding, stoichiometry, quantum mechanics, redox reactions, equilibrium, and thermodynamics. Labs, projects, and homework will all be required.

### ***GENERAL CHEMISTRY I (CHM 160 - DUAL CREDIT) - Grades 11 & 12 (1 Credit WSHS Science and 4 credits Missouri State University-West Plains) - Weighted Class***

***Prerequisite: Must have the permission of the instructor, a minimum semester grade of "B" in Intro to Chemistry and Algebra I.***

***Prerequisite(s) for CHM 160: ACT Reading score of 18 or greater or SAT EBRW of 480; and eligibility for MTH 136 or higher.***

Emphasis on fundamental and theoretical concepts of chemistry. Recommended for all science majors, chemistry majors and minors, and most pre-professional students.

**NOTE:** You must have passed Intro to Chemistry with a B or higher and have teacher permission. It is better if you have completed Algebra I and geometry before taking CHM 160. Algebra I and Geometry will be used in this class.

### ***GENERAL CHEMISTRY I - LAB (CHM 161 - DUAL CREDIT - Grades 11 & 12 (1 Credits Missouri State University-West Plains) - Weighted Class***

***Prerequisite(s): Concurrent enrollment in GENERAL CHEMISTRY I (CHM 160)***

General Chemistry I Laboratory, is a one-credit laboratory course intended to accompany CHM160 by introducing basic chemistry lab techniques. The course introduces principles and techniques pertinent to a variety of CHM160 topics. Labs are designed to parallel the lecture material. Because this is a laboratory class, regular attendance and active participation are required.

**Any student who drops GENERAL CHEMISTRY I (CHM 160) will automatically be dropped from GENERAL CHEMISTRY I - LAB (CHM 161).**

***ANATOMY/PHYSIOLOGY - Grades 12 (1 Credit - Science) Weighted Class***

***Prerequisite: Must have the permission of instructor, a minimum grade of "B" in a previous Biology course.***

Anatomy and Physiology is the study of the structure and function of the human body. All major systems of the body will be studied, using a variety of methods including the viewing of a human cadaver. Enrollment in Anatomy & Physiology is strongly encouraged for students who plan to pursue a career in biology or one of the medical sciences.

***SCIENCE FLOWCHART***

Grade Level	Required Course	Elective Course	Prerequisites
9 <sup>th</sup> Grade	Physics First		
10 <sup>th</sup> Grade	Introduction to Chemistry		
11 <sup>th</sup> Grade	Biology I	Chemistry*	B or higher grade in Introduction to Chemistry
		Advanced Physics	B or higher grade in Algebra II
12 <sup>th</sup> Grade		Chemistry*	See above
		Advanced Physics	See above
		Anatomy & Physiology	B or higher in Biology

\*Chemistry can be taken in 12<sup>th</sup> grade but is better to be taken in 11<sup>th</sup> grade if possible.

***Fine Arts – Art***

***ART I - Grades 9, 10, 11 & 12 (1 Credit – Fine Art)***

Art I is an introduction course, which will require the student to maintain a professional attitude throughout the semester while producing work in the area of 2D and 3D. This class will be based on former knowledge to advance to the next project. This class will mainly be graded on technicality NOT on artistic ability. The focus will be placed on elements of art as well as the growth of expression and exposure to the specific demands of the medium.

***ART II - Grades 10, 11 & 12 (1 Credit – Fine Art)***

***Prerequisite: Art I with a "B" average, Permission from instructor***

Art II is an advanced course, which will require the student to maintain a professional attitude throughout the semester while producing work in the areas 2D and 3D design. Although there are assigned topics, the student will be expected to exhibit a great deal of creativity and forethought to projects. The focus will be placed on principles of art as well as the growth of expression and exposure to the specific demands of the medium.

***ART III - Grades 11 & 12 (1 Credit – Fine Art)***

***Prerequisite: Art I & II with a "B" average, Permission from instructor***

Art III is an advanced course, which will require the student to maintain a professional attitude throughout the semester while producing work in specific mediums with the eventual goal being college admission to art school. The student will be expected to maintain a college level quality of effort throughout the semester while producing Alpha Rho Tau quality works.

***ART IV - Grade 11 & 12 (1 Credit – Fine Art)***

***Prerequisite: Art I, II & III with a "B" average, Permission from instructor***

Art IV is an advanced course, which will require the student to maintain a professional attitude throughout the semester while producing work in specific mediums with the eventual goal being college admission to art school. The student will be expected to maintain a college level quality of effort throughout the semester while producing Alpha Rho Tau quality works.

***ART APPRECIATION & HISTORY I & II - Grades 9, 10, 11 & 12 (1 Credit – Fine Art)***

Art Appreciation-Art History is a second course which will familiarize the student with the basic concepts of 2-dimensional and 3-dimensional artwork while exploring art history from Native Cultures around the world through 1-20th Century. Production assignments will progress through time and through cultures around the world starting with cave dwellers to Indian cultures today. Written/Spoken critiques are also required throughout the year. There will be at least two (semester/end of the year) comprehensive tests covering vocabulary and techniques as well as quizzes each week on relevant art topics.

***PHOTOGRAPHY I – Grades 10, 11, & 12 (½ Credit-Fine Art)***

Students will study the creative art processes of photography with information about the history, aesthetics, and criticism of the photographic media. Students will explore photographic approaches, photographers, and techniques of digital photography including creative experimentation with computer software for the digital camera. Students will also develop an appreciation of contemporary uses of photography. Students will produce a portfolio of their work to include daily assignments, special projects, and their top photos taken during the course. Preference will be given to seniors first, then juniors. School cameras will be used, with the student understanding they may be held responsible for any damage to a camera while in their care. **This class may only be taken one time.**

***PHOTOGRAPHY II - Grade 11 & 12 (½ Credit-Fine Art)***

Students will continue to study the art processes of photography. Students will explore photographic approaches, techniques of digital photography including creative experimentation with computer software for photo editing. Students will produce a portfolio of their work to include daily assignments, special projects, and their top photos taken during the course. School cameras will be used, with the student understanding they may be held responsible for any damage to a camera while in their care.

## **Fine Arts - Music**

### ***BAND - Grades 9, 10, 11 & 12 (1 Credit – Fine Art)***

#### ***Prerequisite: Middle School/Junior High School Band***

High School Band is an instrumental music performing organization. The band is made up of woodwind, brass, and percussion instrument players. It consists of freshmen, sophomores, juniors, and seniors. Occasionally, because of instrumentation necessity, an outstanding eighth grader is admitted into the high school band. This class is scheduled to meet one block for ninety minutes.

This organization performs for all home football games. A field show is presented at the half time, as well as playing in the stands during the entire game. During marching season, the following events are scheduled and require attendance:

At least 3 Marching Festivals	District Band Auditions
Willow Springs Christmas Parade	SCA Honor Band Auditions
SCA Pre-Contest Clinic	District Music Festival-Local
State Music Festival-Columbia	Spring and Winter Concerts

Other performances will be scheduled when time allows with permission of the administration.

Music from the Baroque, Classical, and Contemporary periods are performed during the concert season. Students are taught style and interpretation of all varieties of band literature. Students are taught to identify signs, symbols, and terms found in advanced literature and study materials.

### ***BAND II - Grades 9, 10, 11 & 12 (1 Credit – Fine Art)***

#### ***Prerequisite: Must be enrolled in regular Band class***

High School Band is an instrumental music performing organization. The band is made up of woodwind, brass, and percussion instrument players. It consists of freshmen, sophomores, juniors, and seniors. Occasionally, because of instrumentation necessity, an outstanding eighth grader is admitted into the high school band. This class is scheduled to meet one block for ninety minutes.

This class is a continuation of regular Band with emphasis on Marching Band, Pep Band, Jazz Band, and Concert Band. It will be full ensemble practice along with sectionals and individual practice on music that is being performed in the regular band class as well as extra rehearsal for Pep band and Jazz band.

### ***PIANO CLASS - Grades 9, 10, 11 & 12 (½ Credit – Fine Art)***

A beginning course in basic piano technique. Hands-on instruction in keyboard skills will be taught, progressing through the Schawmn or equivalent piano book I as fast as possible in the allotted time.

Hand position, scales, intervals, and two-hand technique are just a few of the aspects students will learn in this semester class. Students will be tested approximately throughout the semester for playing accuracy. There will also be six or more written theory tests, as well as homework packets for music theory.

### ***THEORY AND HARMONY I - Grades 9, 10, 11, & 12 (1 Credit - Fine Art)***

This class is for students who are interested in learning about how to read music or who have never ever looked at a sheet of music in their whole life. Students will adventure on how to read clefs of all types: Treble, Alto, Tenor, and Bass Clef. Then, students will be learning about rhythm and how it is implemented in music including the learning of the note tree. Next, students will be learning about major scales and how it is built and students will eventually be able to write out the major scales on their own. Finally, throughout the semester students will be hearing a lot of major chords and understand how they sound like as well as the visual of what a major chord looks like in sheet music. A Final for this course will consist of building major chords on sheet music with the ability to identify notes on any kind of staff and the rhythms that come along with it. Plus the identification and drawings of key signatures and how they serve in the major scale.

### ***THEORY AND HARMONY II - Grades 9, 10, 11 & 12 (1 Credit- Fine Art)***

#### ***Prerequisite- Theory and Harmony I***

This course is a continuation from Theory and Harmony I. First, students will review material learned last semester and then transition to the introduction of minor scales and chords. At this point, students should understand how the major scale system works and now they will be introduced to a minor portion. The minor portion will consist of learning about melodic, harmonic, and natural minor scales. Each scale will be taught one at a time for a couple weeks making sure there are no discrepancies about each type of minor scale. Once those scales are familiarized with the students, I will introduce how minor chords work in sheet music. Students will be taught how to draw the minor chords on the staff. Then, students will try to differentiate minor and major by looking instead of hearing the music. In addition, the review of key signatures and the process of finding the relative minor. To conclude this course, students will be introduced to Roman Numeral Analysis and how it is used to analyze music. There will be a mini project where students will read a short sheet of music and analyze the chords in the music through Roman Numeral Analysis.

### ***CONCERT CHOIR - Grades 9, 10, 11 & 12 (1 Credit – Fine Art)***

This is an auditioned group of mixed voicing. This group will work extensively on vocal technique, stage presence, poise, and reading music. This will be a highly visible group performing vocal music from all historical periods and many languages. This group will perform at home volleyball and basketball games, fall and spring concerts, S.C.A. Choral Festival, District, State Music Festivals, civic events, and other functions as they are scheduled. Your attendance is **required** at all scheduled events.

### ***GUITAR – Grades 9, 10, 11, & 12 (½ Credit – Fine Art)***

Students will learn the names of the notes, on the staff, and how they relate to the guitar. They will learn to play chords on the guitar. Students will also learn musical notation (what a quarter note is and how many beats it gets. etc.) Plus, SWBAT identifies and recognizes key signatures in the major and relative minor keys.

## **Physical Education**

### ***PHYSICAL EDUCATION - Grade 9 (1 Credit – PE Credit)***

In high school, physical education class students will develop and maintain physical fitness through a variety of activities such as running, aerobics, training circuits and develop their own personal fitness plan. A variety of team and individual sports are incorporated to allow students the opportunity to develop an interest in activities they may pursue throughout their lives.

**HEALTH - Grade 10 (½ Credit – Health Credit)**

The high school health class prepares students to understand health and wellness with special emphasis on nutrition, mental, social and physical health, the prevention of illness, basic first aid, life-management skills, as well as risk-reduction skills and how these behaviors can improve the quality of life and life expectancy.

**ADVANCED BODY CONDITIONING - Grades 9, 10, 11 & 12 (1 Credit - Elective)**

**Prerequisite: Must be a member of an athletic team/Instructor's permission**

This is an advanced class for athletes that allows them to participate in a variety of physical activities/exercises which will improve their athletic endeavors and help with injury prevention while receiving proper instruction and safety techniques to provide the utmost success. The purpose of the class is to improve muscular strength, speed, agility and flexibility for their athletic endeavors.

**BODY CONDITIONING - Grades 9, 10, 11 & 12 (1 Credit - Elective)**

Body conditioning is intended for non-athletes that allows students the opportunity to participate in a variety of physical activities while receiving proper instruction and safety techniques to provide the utmost success. The purpose of the class is to develop an appreciation of a healthy lifestyle through physical fitness.

**LIFETIME SPORTS - Grades 10, 11, & 12 (1 Credit - Elective)**

**Prerequisite: Physical Education**

Lifetime Sports will provide a variety of team and individual sports skills, lifetime physical activities and aerobic and anaerobic exercises, as well as instruction and discussion of how the body functions. The classes emphasize the development of cardiovascular endurance, muscular endurance, muscular strength, flexibility, and body composition. A wide range of activities is offered to help promote an active lifestyle from the present through an entire lifetime.

## **Vocational/Technical - Business**

**COMPUTER APPLICATIONS I – Grades 9, 10, 11, 12 (½ Credit – Practical Arts)**

This course is designed to help students master beginning skills in the areas of word processing, document formatting, and Internet usage. They will review keyboard and speed development.

**COMPUTER APPLICATIONS II – Grades 9, 10, 11 & 12 (½ Credit – Practical Arts)**

**Prerequisite: Computer Applications I**

This course is designed to help students master skills in the areas of spreadsheet applications, Internet usage, and presentations. They will also work to develop speed and accuracy.

**BUSINESS MANAGEMENT – Grades 10, 11 & 12 (1 Credit – Practical Arts)**

This course introduces the fundamentals of business management and global functions of the business and marketplace. Topics include the development of the business concept, strategic planning, marketing, finance, an overview of international business, teamwork, problem-solving and self-management.

**ACCOUNTING I – Grades 10, 11 & 12 (1 Credit – Practical Arts)**

Students who are interested in business will have an understanding of the procedures used to operate different forms of business ownership, such as a proprietorship or a partnership. This will include a study of journal transactions, ledgers, payroll, and financial statements.

**DESKTOP PUBLISHING – Grades 10, 11 & 12 (1 Credit – Practical Arts)**

**Prerequisite: Computer Applications I**

This course will be project-based as students learn to use desktop publishing skills to create a variety of professional-looking documents. We are currently using Publisher, PowerPoint and other online programs as needed. Students will apply their skills to produce a newsletter, a brochure, business cards, and various other projects for school or for business-related activities.

**MULTIMEDIA - Grades 10, 11 & 12 (½ Credit – Practical Arts)**

**Prerequisite: Computer Applications I**

This course is designed to train students on how to use industry-standard digital editing software, computer hardware, and hardware equipment including a digital camera and video recorder. Students also have introductory instruction in web design, rules of composition, graphic design, publishing design, animation, music composition, and video recording. Students will learn skills related to use in real world careers.

**PERSONAL FINANCE - Grade 12 (½ Credit – Practical Arts)**

This one-semester course is based on the Missouri Personal Finance Competencies and presents essential knowledge and skills to make informed decisions about real-world financial issues. Students will learn how choices influence occupational options and future earning potential. Students will also learn to apply decision-making skills to evaluate career choices and set personal goals. The course content is designed to help the learner make wise spending, saving, and credit decisions and to make effective use of income to achieve personal financial success. Students who complete one-half credit qualify for articulated credit through either OTC or Three Rivers (must be a junior or senior and have 80% in the class).

**CIS 101 COMPUTERS FOR LEARNING (DUAL) – Grades 11 & 12 (½ Credit WSHS and 3 Credits Missouri State University-West Plains – Practical Arts) Weighted Class**

**Prerequisite: Computer Applications I**

Use of the computer to learn the use of operating systems, email, surfing the Web, word processor software, presentation software, and spreadsheet software. Students will be presented with the fundamentals of Computing Concepts, Communicating through Email and the Windows operating system followed by an overview of Microsoft Office Common Features. Also, students will learn three Office applications; specifically, Word, Excel, and PowerPoint.

## **Vocational/Technical - Industrial Technology**

### ***INDUSTRIAL WOODS I - Grades 9, 10, 11 & 12 (1 Credit – Practical Arts)***

Wood Technology is a class that will study all machines and tools that are required to produce a wood project. Projects will vary in size and scope.

### ***INDUSTRIAL WOODS II - Grades 10, 11 & 12 (1 Credit – Practical Arts)***

***Prerequisite: All students taking this course must have taken and passed Wood Technology I.***

This class will help develop problem-solving and teamwork skills, as most units will utilize cooperative learning techniques to build wood projects that require skills taught in Wood Technology I while learning more advanced woodworking skills and techniques.

## **Vocational/Technical – Agriculture Education**

**NOTE: ALL AG CLASSES** have this Prerequisite (plus any listed specific to a class) - ***All students will be required to pay their FFA dues and join the FFA, dues are \$20 student receives an FFA T-Shirt to help compensate for this expense.***

### ***AG SCIENCE I - Grade 9 (1 Credit – Practical Arts)***

***Prerequisite:*** Freshmen and sophomores only that have never taken an agriculture education class.

The course is designed for instruction in animal science, agricultural mechanics, career exploration, leadership and personal development and SAE (FFA Project) program. Units may include agribusiness, natural resources, livestock, plant science, food science, and welding. Introduction to agriculture. (CD 01 6701 - CIP 02.0101 - VIMS 01.9998)

### ***VET SCIENCE - Grades 10, 11, & 12 (1 Credit – Practical Arts)***

***Prerequisite: Ag. Science I (full year credit) OR Ag. Science I & II***

Companion animals are studied in this course. Topics include cell and tissue biology, anatomy, physiology, nutrition, disease prevention, and diagnosis and surgical procedures. Hands on learning with local veterinarians. Dual credit is available for this class, **3 credit hrs.** (CD 01 6711 - CIP 01.0301 - VIMS 01.0302)

### ***FOOD SCIENCE AND TECHNOLOGY - Grades 10, 11, 12 (½ Credit- Practical Arts).***

***Prerequisite: Ag. Science I (full year credit) OR Ag. Science I & II***

***\$10 Lab fee to pay for food items***

This course includes the areas of food chemistry and nutrition, food additives, food packaging and labeling, evaluation of foods, food microbiology, food processing, food fermentation, principles of sanitation and quality control. (CD 016790, CIP 01.0401)

### ***CROP SCIENCE – Grades 11, & 12 (½ Credit – Practical Arts)***

***Prerequisite: Ag. Science I (full year credit) OR Ag. Science I & II***

Units in this course include growing systems, plant selection, production practices, harvesting, storing, marketing, fertilization, soils, conservation, chemicals, integrated pest management, water quality, and biotechnology. (CD 016761, CIP 01.0301)

**AG LEADERSHIP - Grades 10, 11, & 12 (1 Credit – Practical Arts)**

**Prerequisite: Ag. Science I (full year credit) OR Ag. Science I & II**

This course will enable students to develop the knowledge, attitudes, and skills to demonstrate positive leadership for agriculture. Areas of focus include public speaking, extemporaneous speaking, impromptu speaking, written communication, meeting people, good first impressions, personal goals, teamwork, team/organizational goals, organizing groups to take action and evaluation of team/organizational actions. Students will also be responsible for managing the FFA Newsletter and helping organize events. (CD 016742, CIP 01.0802)

**ANIMAL AND PLANT BIOTECHNOLOGY - Grades 11, & 12 (1 Credit – Practical Arts)**

**Prerequisite: Ag. Science I (full year credit) OR Ag. Science I & II**

**Taking or have taken BIOLOGY I**

**\$5 Lab fee**

This course includes topics in the history of biotechnology, the principles of scientific research, cell biology, genetic transfer, genetically modified organisms, cloning, and the application of biotechnology to plant science, animal science, medicine, the food industry, and ecology. Consumer issues, ethics, and careers are also addressed. Dual credit is available for this class, **3 credit hrs.** (CD 016743, CIP 01.0901)

**PLANT SCIENCE - Grades 10, 11, & 12 (1 Credit – Practical Arts)**

**Prerequisite: Ag. Science I (full year credit) OR Ag. Science I & II**

This course develops a basic understanding of greenhouse techniques. The production of greenhouse crops will be used to demonstrate procedures such as plants started from cuttings, seeds, grafts, and layering. Students will manage their own crop as a greenhouse project and assist in producing greenhouse crops for the FFA plant sales. Students will also learn about modern greenhouse systems such as hydroponics, aquaponics, and aeroponics. Students will be expected to assist in the management of our aquaculture system including regular measurement of our fish, collection of scientific data, and diagnostic of common issues involving aquaponics/aquaculture. (CD 016765, CIP 01.0604)

**LANDSCAPING - Grades 10, 11, & 12 (½ Credit – Practical Arts)**

**Prerequisite: Ag. Science I (full year credit) OR Ag. Science I & II**

This course outline includes landscape design and maintenance, vegetable gardening, plant propagation, plant identification, lawn establishment, and career exploration. In Landscaping, the student will learn the importance of selecting and utilizing the right equipment, plants, trees, and shrubs.

**GREENHOUSE OPERATIONS AND MANAGEMENT- Grades 10, 11, & 12 (½ Credit – Practical Arts)**

**Prerequisite: Ag. Science I (full year credit) OR Ag. Science I & II**

This course outline includes an overview of many different greenhouse practices including growing structures, plant growth, irrigation and fertilization techniques, plant propagation, plant health, pest management, and financial management of a greenhouse.

**AGRICULTURAL MANAGEMENT AND ECONOMICS –Grades 10, 11, & 12 (1 Credit – Practical Arts)**

**Prerequisite: Ag. Science I (full year credit) OR Ag. Science I & II**

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, microcomputers in agriculture, economic principles, farm planning, agribusiness functions, and business management. (CD 016730, CIP 01.0101)

**AG POWER I - Grades 10 & 11 & 12 (1 Credit – Practical Arts)**

**Prerequisite: Ag. Science I (full year credit) OR Ag. Science I & II**

**SAFETY glasses are required at all times, in class or shop. Self-driven lab. Students must have a solid work ethic. Failure to do so will result in removal from class at the instructor's discretion.**

This course requires focus and dedication in order to be successful. Students will be expected to learn the theory behind many agricultural engine systems including: 4 stroke engines, 2 stroke engines, diesel engines, hydraulics, radial engines, electric motors, and jet engines. Students will gain a working understanding of common and specialty mechanic tools and their functionalities. Each student will be responsible for disassembling and reassembling their own engine correctly while simultaneously diagnosing common problems involved in the process. In this class, students will also be provided the opportunity to combine engine systems to metal fabrication systems to create projects such as engine driven hydraulic log splitters, go karts, and other engine driven agriculture equipment. (CD 016751, CIP 01.0201)

**CONSTRUCTION II – Grades 11 & 12 (1 Credit – Practical Arts)**

**Prerequisite: Ag. Science I (full year) OR Ag. Science I & II AND Ag Construction I OR Ag Power I**  
**SAFETY glasses are required at all times, in class or shop. Self-driven lab. Students must have a solid work ethic. Failure to do so will result in removal from class at the instructor's discretion.**

Advanced welding procedures SMAW, GMAW, GTAW, CNC Plasma, sheet metal fab, Oxy-acetylene welding as well as advanced shop metal and wood projects. (CD 016751, CIP 01.0201)

**AG MACHINERY - Grades 11 & 12 (1 Credit – Practical Arts)**

**Prerequisite: Ag. Science I (full year) OR Ag. Science I & II AND Ag Construction I OR Ag Power I**  
**SAFETY glasses are required at all times, in class or shop. Self-driven lab. Students must have a solid work ethic. Failure to do so will result in removal from class at the instructor's discretion.**

Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. The safe operation, adjustment and maintenance of agricultural equipment are essential skills for students pursuing a career in agricultural mechanics. This course includes selection, operation, adjustment, maintenance and repair of machinery commonly used on the farm. (CD 016753, CIP 01.0201)

## **Vocational/Technical - Family and Consumer Sciences**

A group of instructional programs that prepares individuals for the dual roles of work and family. At all levels, the emphasis is placed on the acquisition of knowledge and the development of attitudes, standards, values, and skills that provide career supplements and support learning in the student's home and family. These attitudes, standards, values, and skills are needed for nurturing human development, meeting material needs and strengthening family and community life. Academic knowledge is extended in practical life skills!

**FACS ENTREPRENEURSHIP – Grades 9, 10, 11 & 12 (1 Credit – Practical Arts)**

**Prerequisite: Student enrollment in this class will be the decision of Ms. Bell, Mrs. Patton, and Mr. Spence. Must join FCCLA for the current school year.**

This course focuses on how individuals develop and function in family, work, and community settings and how they relate to their physical, social, emotional, and intellectual environments. Students: a) learn about personal growth and leadership; b) explore work, jobs, and career related to family consumer sciences and human services; c) solve problems impacting the work of the family; and d) make decisions

that support and strengthen the integration of multiple roles/responsibilities of individuals, family, career and community. **Enrollment in this class must be approved by the instructor prior to registration.**

***NUTRITION AND WELLNESS - Grades 10, 11 & 12 (½ Credit – Practical Arts)***

This course prepares individuals to understand the principles of nutrition; the relationship of nutrition to health and wellness; the selection, preparation, and care of food; meal management to meet individual and family food needs and patterns of living; food economics and ecology; optimal use of the food dollar; understanding and promoting nutritional knowledge; and application of related math and science skills.

***FOODS - Grades 10, 11 & 12 (½ credit – Practical Arts)***

***Prerequisite: “C” or higher in Nutrition & Wellness***

This course focuses on the general study of cooking and related culinary arts and that may prepare individuals for a variety of jobs within the food service industry. Courses should include instruction in food preparation; cooking techniques, equipment operation, and maintenance; sanitation and safety.

***EXPLORING FACS – Grades 9, 10, 11 & 12 (½ Credit – Practical Arts)***

This course prepares individuals to understand the values, needs, wants, goals, and resources that enable youth 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.

***APPAREL, TEXTILES, AND FASHION – Grades 9, 10, 11 & 12 (½ Credit – Practical Arts)***

This course is designed to help individuals understand the social, psychological, and physiological aspects of clothing and textiles; the nature, acquisition, and use of clothing and textile products; the selection, construction, maintenance, and alteration of clothing and textile products; and the effect of consumer choices on the individual and family as well as the clothing and textile industry.

***INTERIOR DESIGN – Grades 9, 10, 11 & 12 (½ Credit – Practical Arts)***

This course introduces students to the behavioral, social, economic, functional, and aesthetic aspects of housing, interiors, and other built environments. The course includes instruction in analyzing, planning, designing, furnishing, and equipping residential, work, and leisure spaces to meet user needs and the study of related public policies.

***CHILD DEVELOPMENT I & II– Grades 11 & 12 (1 Credit – Practical Arts)***

This course focuses on the intellectual, social, emotional, and biological development of children. It includes instruction in parent-child relations, parenting practices, special needs of children, parental and environmental influences on child development, external support services, and related public policy issues.

## **Specialized Programs**

### ***A+ TUTORING - Grades 11 & 12 (½ Credit - Elective)***

Students will be assigned to either the elementary or middle school to tutor and/or mentor younger students for the fulfillment of this A+ requirement. A+ Tutors will assist younger students in areas such as reading and math. Students will be responsible for maintaining a weekly time log.

### ***ESOL STUDY SKILLS – (ENGLISH FOR SPEAKERS OF OTHER LANGUAGES) – Grades 9, 10, 11 & 12 (1 Credit - Elective)***

This class is meant for students whose native language is other than English. It provides assistance in mastering English grammar and conversational skills, as well as training in academic skills for successful integration of English language learners into the education system in the United States. When necessary, the program may also provide initial training in Social Studies and Science.

### ***INTERNSHIP - (School-to-Work) Grade 12 (Credits will depend on various factors)***

***Prerequisite: Students must be a senior and assigned to their career pathway for participation in the internship program. (Elective)***

This program will provide options to help students attain high academic and occupational standards. It will be a flexible system designed by local partnerships to meet local student and employer needs by offering students experiences in a broad range of career opportunities through which students can explore and experience the relationship between academics and work. This will be a work-based learning experience which cannot be readily provided within a regular school setting, but which can be made available through assignments to on- or off-campus locations under a cooperative arrangement with business and industry or other institutions. All students wishing to participate will need to complete an application and will be interviewed before placement in this program.

### ***LIBRARY AIDE– Grades 11 & 12 (1 Credit - Elective)***

***Prerequisite: Approval of the librarian***

This course will place emphasis on the development of the library, research 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 to the workplace.

Students will demonstrate initiative, cooperation, good attendance, and a willing attitude.

General duties will include shelving, photocopying, cleaning, running errands, computer maintenance, reading and rating books, checking books in and out, and assisting students with locating information.

### ***OFFICE AIDE – Grades 11 & 12 (1 Credit - Elective)***

An office aide should be punctual, be able to keep confidential information confidential, be honest, be responsible when answering the phone, and be willing to help in all types of weather conditions. Each office has unique requirements, but general duties will include: be punctual in reporting to the office, answer the phone and take messages during the absence of the secretary, pick up and deliver mail, photocopy, run errands for teachers, deliver messages to students, file, pick up reports from the printer, take bus changes and notes to teachers at the end of school, occasionally count money, and accompany kindergarten students to the kindergarten building if they are late.

# **South Central Career Center**

(Vocational School)

## ***AUTOMOTIVE COLLISION TECHNOLOGY I & II - Grades 11 & 12 (3 Credits – Practical Arts)***

This class focuses on the auto body repair process. Students will learn the foundations of the auto collision repair industry, different types of vehicle construction, tools used, repair procedures and refinishing products and procedures. 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 I & II - Grades 11 & 12 (3 Credits – Practical Arts)***

This course prepares students to learn the basic fundamentals of the vehicle's working parts, technical requirements for researching service manuals and handling a computer-based diagnostic machine.

## ***BUILDING TRADES I & II - Grades 11 & 12 (3 Credits – Practical Arts)***

This class is designed to prepare students for a job in the construction trades. Students will gain knowledge in the 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 & ADVERTISING ART I & II – Grades 11 & 12 (3 Credits – Practical Arts)***

Creative Design is a computer-based graphic design course. Students will learn several industry standard software titles. These applications will be taught through projects that use software and various output methods to create a final piece. Projects assigned will have connections to the industry from conception to output. Some outputs include decals, vinyl banners, etched glass mugs, T-shirt graphics or full-color posters.

## ***CULINARY ARTS I & II - Grade 11 & 12 (3 Credits – Practical Arts)***

This course is designed to train students for employment entry in the growing field of foodservice and hospitality. Coursework covers the basics in preparing & serving food, basic nutrition, sanitation, dietetics, equipment use and maintenance, and food display and presentation. Students will also get real-world experience by participating in catering functions.

## ***HEALTH SCIENCE I – Grade 11 (3 Credits – Practical Arts)***

The course will include a foundation of cellular physiology followed by an in-depth study of the structure and function of the biological systems as found in the human body. The student will receive lab experience and healthcare certifications in American Red Cross AED/CPR/First Aid. This course is designed so that students become more skilled in such areas as basic patient care, office reception, anatomy and physiology, medical terminology, math for health careers, legal and ethical issues in the health field, and career exploration.

## ***HEALTH SCIENCE II – Grade 12 (3 Credits – Practical Arts)***

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 hours 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 CNA certification. This class is limited to 15 students per block. Health Science I is not a prerequisite, but it is recommended.

***INFORMATION TECHNOLOGY I & II - Grades 11 & 12 (3 Credits - Practical Arts)***

The South Central Career Center Information Technology Program is a two- year program that will focus on client computing/user support, database and information management, digital media and immersive technology, networking and convergence, programming and application development, servers, storage and virtualization, and essential workplace skills. The program was developed by industry practitioners and will include the opportunity to earn at least one industry-recognized credential.

***PHARMACY TECHNICIAN - Grade 12 (3 Credits – Practical Arts)***

This is a one year course designed for high school seniors. Instructions will cover basic pharmacology and body structures with medical terminology. This course provides the students with the opportunity to develop 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 to take the certification exam following the completion of the class.

***WELDING TECHNOLOGY I & II – Grades 11 & 12 (3 Credits – Practical Arts)***

Welding Technology is a course that provides instruction in welding theory, principles, and applications. Shielded Metal Arc Welding, Gas Metal Arc Welding, Gas Tungsten Arc Welding, ox fuel cutting, plasma cutting, industrial mathematics, blueprint reading, and metallurgy are all covered extensively in both theory and practice. Students are prepared for the American Welding Society (AWS) certification.