

# Lone Jack C-6

ONE TOWN. ONE DISTRICT. ONE TEAM.



## Course Descriptions 2022/2023

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# GRADUATION REQUIREMENTS

<u>Courses</u>	<u>Credits Required</u>
Language Arts.....	4
Mathematics.....	4
Science.....	4
Social Studies(Am. History I, Am. History II, Government)*.....	3
Fine Art( Music, Band, or Art).....	1
Practical Art.....	1
Spanish I (College bound students need 2 credits).....	1
Physical Education.....	1
Health.....	1/2
Personal Finance.....	1/2
Electives.....	5
	<b>Total 25</b>

\*Social Studies Honors Track: Honors World History, AP Government, US Dual Credit History

\*If a student receives 3 Ag Science credits, this will waive a single Science credit towards graduation, OR alternatively, if a student receives 3 PLTW credits, this will waive a single Science credit towards graduation.

\*Students attending CCC or STA **for two years** may waive one(1) math and one(1) science credit( ie student must complete three(3) years of math and three(3) years of science). Students must complete 25 credits to graduate.

\*Students attending CCC or STA **for one year** may waive one(1) year of math **or** one(1) year of science dependent on the graduation requirement needed. Students must complete 25 credits to graduate.

The accumulation of credits begins in the ninth grade, with the exception of 8th grade Algebra and Spanish I. Students must pass an examination over the United States Constitution and an examination over the Missouri Constitution. Students must also pass the Civics Exam and CPR instruction. Students must also complete 20 pre-approved hours of community service to graduate.

# English

(4 credits of English are required for graduation)

## English I

**Grade: 9**

**Length of Course: full year/ one credit**

**Prerequisite: none**

**Type of credit: English Language Arts**

Course Description: English I is a study on the skills of grammar, mechanics of writing, and reading comprehension. The study of literature will include fiction, non-fiction, short stories, drama, and poetry. Students will annotate, discuss, summarize, and paraphrase. The students will write essays, critique literature, make oral presentations, and cite sources using MLA citation.

## English II

**Grade: 10**

**Length of Course: full year/ one credit**

**Prerequisite: English I**

**Type of credit: English Language Arts**

Course Description: English II is designed to bridge English I and the various literature and composition courses offered at higher grade levels. The course includes analysis and discussion of multicultural reading selections in fiction, non-fiction, poetry, and drama. The overall objective is an integrated approach to writing skills, sentence structure, grammar, vocabulary skills, oral communication, critical viewing and listening, and research skills. Students will take a required EOC in the Spring for English II.

## English III

**Grade: 11**

**Length of Course: full year/ one credit**

**Prerequisite: English I and II**

**Type of credit: English Language Arts**

Course Description: The course introduces students to their American literary heritage as they study the major periods and themes of American literature from the Colonial period to the present. Students can expect to read and discuss the major historical, social, and philosophical conflicts and values of our American society. Using the writing process, students will respond to literature from both personal and analytical points of view. Formal and informal speeches and presentations will be used to enhance student communication skills and vary assessment formats. In addition, students will write a research paper using MLA documentation. Grammar, mechanical, and vocabulary skills are stressed in preparation for the ACT.

## English IV

**Grade: 12**

**Length of Course: full year/ one credit**

**Prerequisite: English I, II, and III**

**Type of credit: English Language Arts**

Course Description: The course prepares students with communication skills to succeed in the world after high school. Instruction will stress improving reading, writing, grammar, spelling, vocabulary and speaking and listening skills. Reading comprehension and text annotation for real-life situations will also be an important part of the class. Students will read British and American fiction, nonfiction, drama and poetry. A career component will include résumé, work and college applications, and interview techniques. A research component will generate the documentation of materials according to MLA style.

## **College English 1020**

**Grade: 12**

**Length of Course: semester/ half credit**

**Prerequisite: English I, II, and III. Must have an English score of 18 on the ACT or a 250 on the Accuplacer.**

**Type of credit: English Language Arts, weighted**

Course Description: A study of the fundamentals of formal writing with an emphasis on short papers. Development of skills in analysis, organization, and expression. Grammatical structure is stressed. **Dual credit is available through the University of Central Missouri. If taking this course for dual credit, the cost is \$92.00 per credit hour.**

## **College English 1030**

**Grade: 12**

**Length of Course: semester/ half credit**

**Prerequisite: English I, II, III and College English 1020. Must have an English score of 18 on the ACT or a 250 on the Accuplacer.**

**Type of credit: English Language Arts, weighted**

Course Description: Development of skills in library research with writing research papers. Extensive study of proper documentation, formatting, and organization of research papers. Students will do research, develop a working bibliography, and learn how to take proper notes and evaluate relevant sources. **Dual credit is available through the University of Central Missouri. If taking this course for dual credit, the cost is \$92.00 per credit hour.**

## **Creative Writing**

**Grade: 10-12**

**Length of Course: one semester/ half credit**

**Prerequisite: English I**

**Type of credit: Elective**

Course Description: This course is designed to aid students in their creative expression, as well as delivery of one's writing. This course emphasizes the development of skills in the creation and study of prose, drama, and poetry in a workshop setting. Students will read and discuss articles on the craft of writing. Students will read and evaluate the effectiveness of varying styles of fiction and poetry. They will write and workshop pieces to complete a final portfolio. Students will be expected to deliver their writing to an audience and are required to give and receive constructive criticism. Students will demonstrate a better understanding of the revision and rewriting process through mastery of editing skills, including peer-editing.

## **Literature Through Film**

**Grade: 10-12**

**Length of Course: one semester/ half credit**

**Prerequisite: English I**

**Type of credit: Elective**

Course Description: In Literature Through Film, students will read film critiques and will discuss different criteria for what makes a "good" film. Students will view several films of different genres, followed by extensive class discussion and analysis. Students can expect to write argumentative articles for each movie, evaluating the value of the film. Throughout the semester, students will learn about various techniques, styles, and genres of film, and how they impact the audience's perception of the film. Students will also learn about the process of filmmaking and the criteria for film awards.

# Mathematics

(4 credits of math are required for graduation)

## **Algebra Essentials**

**Grade: 9**

**Length of Course: full year/ one credit**

**Prerequisite: none**

**Type of credit: Mathematics**

Course Description: Algebra Essentials is designed as a transition between middle school and high school math. The course teaches pre-algebra and introduces Algebra I content. Algebra Essentials focuses on providing a solid foundation for a traditional Algebra I course and other topics presented in state math exams.

## **Algebra I**

**Grade: 9-10**

**Length of Course: full year/ one credit**

**Prerequisite: none**

**Type of credit: Mathematics**

Course Description: Algebra I is organized around families of functions, with special emphasis on linear and quadratic functions. As students learn about each family of functions, they will learn to represent them in multiple ways--as verbal descriptions, equations, tables, and graphs. Students will also explore: how to solve equations, how to solve inequalities, systems of equations and inequalities, exponents, polynomials and factoring. Students will take a required EOC in the Spring for Algebra I.

## **Geometry**

**Grade: 9-11**

**Length of Course: full year/ one credit**

**Prerequisite: Algebra I**

**Type of credit: Mathematics**

Course Description: Geometry is the study of shapes and the relationships that exist within line segments, angle measures, and points. The class studies the coordinate plane, polygons, writing of geometric proofs, circles, trigonometry, and all facets of mathematics that contain these subjects. In addition, Geometry is a class where there is a heavy focus on reinforcing and strengthening algebraic concepts including solving equations, slope of a line, and exponents.

## **Algebra II**

**Grade: 10-12**

**Length of Course: full year/ one credit**

**Prerequisite: Algebra I and Geometry**

**Type of credit: Mathematics**

Course Description: In Algebra II, students will build on their understanding of linear & quadratic equations, advanced polynomials, rational expressions, radicals, imaginary & complex numbers, exponents, and logarithms. The content of this course are important for students' success on both the ACT and college mathematics entrance exams.

**Technical Math****Grade: 11-12****Length of Course: full year/ one credit****Prerequisite: Algebra I, Geometry, Algebra II****Type of credit: Mathematics**

Course Description: Technical Math is designed for students that have successfully completed Algebra I, Geometry, and Algebra II. The concepts covered in this course are as follows: complex algebraic processes like solving a system of equations, real-world situations like building a fence around a garden, and studying in-depth the relationships between line segments, points, angles, and shapes. This course reviews concepts learned in previous math classes, but digs deeper into the content. Students will build scale models, design buildings, measure sides and angles that exist around them, and try to explain processes in our world with math. This is a hands-on class that will require independent work as well as cooperative learning. There will be supplemental ACT preparation happening in conjunction with this class, where students will both build and work with their hands while also working practice problems from various ACT practice tests.

**Pre-calculus/Trigonometry****Grade: 11-12****Length of Course: full year/ one credit****Prerequisite: Algebra I, Geometry, Algebra II (need to have a B or higher)****Type of credit: Mathematics**

Course Description: The purpose of this course is to prepare students in the basics of Trigonometry and Analytical Geometry. There will be some review of functions including linear, quadratic and exponential functions. Trigonometry will include radian measure, solving triangles, graphing the six trigonometric functions, and vectors. The study of Analytical Geometry will include the conic sections, polar coordinates, polar equations and parametric equations.

**College Algebra 1111****Grade: 11-12****Length of Course: full year/ one credit (Spring semester college credit)****Prerequisite: Algebra II, 22 on ACT math portion or 230-239 on Accuplacer or C or higher in Algebra II with a 3.5 GPA.****Type of credit: Mathematics, weighted**

Course Description: The purpose of this course is to teach mathematical reasoning to prepare students for their degree of study. The topics include quadratic equations and inequalities. The study of functions, including polynomial, rational, exponential and logarithmic functions. Finally, the study of systems of equations including a matrix approach. **Dual credit is available through the University of Central Missouri. If taking this course for dual credit, the cost is \$92.00 per credit hour.**

# Science

(4 credits of Science are required for graduation)

## 9th Science

**Grade: 9**

**Length of Course: full year/ one credit**

**Prerequisite: none**

**Type of credit: Science**

Course Description: 9th grade science touches on the fundamentals of each major branch of science (Chemistry, Physics, Earth Science, and Biology). In addition to building a base of knowledge for students to build off of, it also allows students to explore which sciences they are interested in investigating throughout high school and beyond.

## Biology I

**Grade: 10-12**

**Length of Course: full year/ one credit**

**Prerequisite: 9th Science**

**Type of credit: Science**

Course Description: This course is designed as a high school survey course that will cover the major topics in Biology. Concepts include: biochemistry, DNA and genetics, ecology and evolution among others. Students will be able to critically analyze data as well as understand current world problems and apply information learned to help create solutions. Students will take a required EOC in the Spring for Biology I.

## Honors Biology

**Grade: 9-12**

**Length of Course: full year/ one credit**

**Prerequisite: 8th grade science teacher approval, 9th grade science teacher approval.**

**Type of credit: Science, weighted**

Course Description: This course is designed as an advanced high school survey course that will include a more in depth analysis of the major topics in Biology. Concepts include: biochemistry, DNA and genetics, ecology, and evolution among others. Students will be able to understand complex biological processes from a molecular level to an organismal level. This class is designed to help students for the rigors of advanced science classes by adding in some college level materials to each unit of study.

## Earth and Space Science

**Grade: 10-12**

**Length of Course: full year/ one credit**

**Prerequisite: none**

**Type of credit: Science**

Course Description: Earth and Space Science is the study of the processes that shape the Earth and explain the universe. This course will explore the four main branches of Earth Science, which includes the following: geology, oceanography, meteorology, and astronomy. In this physical science course, students will learn in detail about the Earth's interior and the theory of plate tectonics. Students will learn about Earth's systems and their interactions. Students will also explore the current theories that describe the formation of Earth, our Solar System, and the universe. Students will learn about the relationship between Earth Science and technology.



## **Chemistry I**

**Grade: 10-12**

**Length of Course: full year/ one credit**

**Prerequisite: Algebra I or enrolled concurrently in Algebra II**

**Type of credit: Science**

Course Description: This course is an introductory course to the five traditional areas of study in chemistry: organic chemistry, inorganic chemistry, biochemistry, analytical chemistry, and physical chemistry. The central themes of chemistry that will be developed: Electrons and the Structure of Atoms, Bonding and Interactions, Reactions, Kinetic Theory, The Mole and Quantifying Matter, Matter and Energy, and Carbon Chemistry.

## **Anatomy and Physiology**

**Grade: 10-12**

**Length of Course: full year/ one credit**

**Prerequisite: Biology I with a minimum grade of a C or higher; or instructor's approval.**

**Type of credit: Science**

Course Description: This course will cover the basics of the anatomy and physiology of the human body with an emphasis on how the body works and why. Students will be able to apply concepts learned in class to the medical and health care industry. Ideal for college bound students and those pursuing careers in medicine, health services, sports medicine, or physical therapy.

## **Physics**

**Grade: 10-12**

**Length of Course: full year/ one credit**

**Prerequisite: B average or higher in Biology and Algebra I**

**Type of credit: Science**

Course Description: A course in elementary physics, covers the basic concepts, principles and history of physics. Course topics will include selected topics in mechanics, heat, light, sound, electricity and magnetism, motion, and modern physics. A prerequisite of at least Algebra 1 as this is a math based course which will integrate math and physics concepts.

## **AP Biology**

**Grade: 11-12**

**Length of Course: full year/ one credit**

**Prerequisite: B average or higher in Biology and Chemistry**

**Type of credit: Science, weighted**

Course Description: This course is designed as an advanced high school survey course that will cover the major topics in Biology. In depth concepts include: biochemistry, DNA and genetics, ecology and evolution among others. Students will be able to critically analyze data as well as understand current world problems and apply information learned to help create solutions. The level of work required in the course will be equivalent to a college level class with the expectation that assignments are completed prior to coming to class. **This course is available for college credit based on the university attending and the grade the student receives on the AP exam at the end of the year. Students enrolled in AP Biology will be expected to take the AP Biology test in May. The cost is approximately \$95. Financial aid is available.**

# Social Studies

(2 Social Studies classes and 1 government class required for graduation)

## **American History I**

**Grade: 9**

**Length of Course: full year/ one credit**

**Prerequisite: none**

**Type of credit: Social Studies**

Course Description: The course study will include cultural, economic, political, social, and military developments that have shaped our nation from 1850 to 1929.

## **American History II**

**Grade: 10-12**

**Length of Course: full year/ one credit**

**Prerequisite: American History I or Honors World History**

**Type of credit: Social Studies**

Course Description: The course study will include the cultural, economic, political, social, and military developments that have shaped our nation from 1930 to the present.

## **Honors World History**

**Grade: 9-12**

**Length of Course: full year/ one credit**

**Prerequisite: 8th and 9th grade social studies teacher approval**

**Type of credit: Social Studies, weighted**

Course Description: Honors World History is the initial course in the Social Studies College Track. It is a full year course. Prospective 8th and 9th graders may be invited to enroll, however, invitation is not required. It is a survey of World History with an emphasis on Western Civilization beginning with prehistoric time and concluding with the 19th century. The course will delve into the major historical themes of movement, conflict, culture, geography, religion, government, and empire.

## **Government**

**Grade: 11-12**

**Length of Course: full year/ one credit**

**Prerequisite: American History I and II**

**Type of credit: Social Studies**

Course Description: This course provides students with experiences to study individual rights provided to them by the United States Constitution and other related laws. Students will deal with the direct and indirect effects that the government has on your everyday lives, what rights you possess as an American citizen, and what responsibilities each citizen has to their government on the local, state and national levels. Other relevant topics included in this course include the elections / voter registration process, political parties and politics, and social issues that concern young adults and all Americans. Students will take a required EOC in the Spring for Government. Students will also take the required Civics, Missouri, and US Constitution test.

## **AP Government**

**Grade: 10-12**

**Length of Course: full year/ one credit**

**Prerequisite: Honors World History**

**Type of credit: Social Studies, weighted**

Course Description: AP Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behavior. They will engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. Students will take a required EOC in the Spring for AP Government. Students will also take the required Civics, Missouri, and US Constitution tests. **This course is available for college credit based on the university attending and the grade the student receives on the AP exam at the end of the year. Students enrolled in AP Government will be expected to take the AP Government test in May. The cost is approximately \$95. Financial aid is available.**

## **Dual Credit US History to 1877**

**Grade: 11-12**

**Length of Course: semester/ half credit**

**Prerequisite: American History I and II or Honors World History and AP Government.**

**Type of credit: Social Studies, weighted**

Course Description: This course provides students with an overview of the peoples, ideas, values, institutions and historical events that shaped the American nation from the settlement by native Americans through the era of the civil war and reconstruction. Students will be expected to do college level writing, reading, analysis, and discussions. Emphasis will be placed on historiography and the analysis of primary and secondary sources. **Dual credit is available through the University of Central Missouri. If taking this course for dual credit, the cost is \$92.00 per credit hour.**

## **Dual Credit US History from 1877**

**Grade: 11-12**

**Length of Course: semester/ half credit**

**Prerequisite: American History I and II or Honors World History and AP Government.**

**Type of credit: Social Studies, weighted**

Course Description: This course provides students with an overview of the peoples, ideas, values, institutions, and historical events that shaped the American nation from the civil war to the reconstruction of 9/11. Students will be expected to do college level writing, reading, analysis, and discussions. Emphasis will be placed on historiography and the analysis of primary and secondary sources. **Dual credit is available through the University of Central Missouri. If taking this course for dual credit, the cost is \$92.00 per credit hour.**

## **Modern US History**

**Grade: 9-12**

**Length of Course: semester/ half credit**

**Prerequisite: none**

**Type of credit: elective**

Course Description: We will study and discuss the cultural, pop cultural, political, societal, and military developments that have shaped our nation from 1990 to the present with an emphasis on contemporary issues.

## **Geography**

**Grade: 9-12**

**Length of Course: semester/ half credit**

**Prerequisite: none**

**Type of credit: elective**

Course Description: This course will include an introduction to geography, physical geography, human geography, and explore how these topics play out in specific regions of the world. Students will also be able to understand relevant local, state, national, and world cities and their locations.

## **Psychology I**

**Grade: 10-12**

**Length of Course: semester/ half credit**

**Prerequisite: none**

**Type of credit: elective**

Course Description: This semester course is designed to introduce students to the biological and theoretical foundations of psychology. The course will encourage students to develop analytical skills, conduct research, investigate the mind-body connection, analyze concepts of consciousness, evaluate theories of personality, develop an understanding of psychological disorders, evaluate the role and effectiveness of treatments and analyze theories of intelligence. In Psych I students will focus on the life span, from birth to death along with how we develop and the stages of life humans go through.

## **Psychology II**

**Grade: 10-12**

**Length of Course: semester/ half credit**

**Prerequisite: none**

**Type of credit: elective**

Course Description: Psych II students will focus on the mind and body, how the brain works, memory, altered states of consciousness and mental disorders.

## **History of Baseball**

**Grade: 9-12**

**Length of Course: semester/ half credit**

**Prerequisite: none**

**Type of credit: elective**

Course Description: This is a semester course of the history of baseball. It goes through the origins of baseball and the rise of the sport in America. Baseball has survived labor strife, gambling plots, outlawed leagues, depressions, world wars, financial failures, inept ownership, strikes and blundering commissioners and is still America's favorite pastime.

## **Missouri History**

**Grade: 9-12**

**Length of Course: semester/ half credit**

**Prerequisite: none**

**Type of credit: elective**

Course Description: Missouri History is a Social Studies elective. Students will be introduced to a survey history of the great state of Missouri beginning with prehistoric times and concluding with the 20th century. The course will delve into the major historical themes of movement, conflict, culture, geography, and government.

## **History of the Holocaust**

**Grade: 10-12**

**Length of Course: semester/half credit**

**Prerequisite: none**

**Type of credit: elective**

Course Description: This class will cover the state-sponsored, systemic persecution and annihilation of European Jewry by Nazi Germany and its collaborators between 1933 and 1945. The class will cover Jews and anti-Judaism and antisemitism prior to WWI, pre-WWII Germany and European Jewry; the limited solution for Jews during 1933- and 1939, including persecution, expropriation, isolation, and emigration. Germany's situational solution including ghettoization, concentration camps, and mobile killing squads; the Final Solution during 1942-1944 covering Nazi Germany's rationalization of Genocide and death camps; and the aftermath of the Holocaust, particularly focusing on the years from 1945 to 1950, covering liberation and displacement.

# **Art (Fine Arts)**

**(1 credit of Fine Art is required for graduation)**

## **Exploratory Art (Art 1)**

**Grade: 9-12**

**Length of Course: full year/ one credit**

**Prerequisite: none**

**Type of credit: Fine Art**

Course Description: This class is geared towards the beginning artist. It is a year-long class which fulfills the high school fine art credit while improving students' basic art skills. We will use the elements and principles of art to create original designs. We also look to current and past artists to see how they have used art to share their stories. We will create paintings, sculptures, drawings, ceramics and more.

## **Advanced Skills(Art 2)**

**Grade: 9-12**

**Length of Course: full year/ one credit**

**Prerequisite: Exploratory Art or 2 years of Jr. High art with teacher approval**

**Type of credit: Fine Art**

Course Description: This class is geared towards students who are looking for a challenge while improving their current art skill set. We will focus on art as a visual language and we will create art to convey our innovative ideas. We also look to current and past artists to see how they have used art to share their stories. We will create paintings, sculptures, drawings, ceramics and more.

## **Intensive Skills (Art 3/4)**

**Grade: 10-12**

**Length of Course: full year/ one credit**

**Prerequisite: Exploratory Art and Advanced Skills**

**Type of credit: Fine Art**

Course Description: This is an intensive year-long art class where students will refine their skills in a particular media during each semester. While working exclusively in that particular media, students will set and work towards portfolio goals. We will be including one piece of work into the yearly Missouri Congressional Art Competition. Intensive Art may be taken up to three times in High School without repeating media. Sections of Intensive Art may focus on: Ceramics, Painting Techniques, Three-Dimensional Art, Drawing/Pastel, Printmaking, and Fiber Art.

# Music (Fine Arts)

## **HS Choir**

**Grade: 9-12**

**Length of Course: full year/ one credit**

**Prerequisite: none**

**Type of credit: Fine Art**

Course Description: High School Choir is a place for students to express themselves through music and singing. Throughout the year, students will create and experience music through a variety of musical styles such as cultural, pop, classical, and a cappella arrangement. There are several performance opportunities throughout the year, and a trip is taken every other year to allow students to experience music in other parts of our nation. Students in choir will learn about specific vocal and choral techniques, will develop their aural skills by listening to and evaluating other choral performances, and will learn to work together as a choral team. They will also gain a fundamental understanding of music that will include music reading, ear training, music theory, writing and arranging, and music history.

## **Music in Movies**

**Grade: 9-12**

**Length of Course: semester/ half credit**

**Prerequisite: none**

**Type of credit: Fine Art**

Course Description: Music in Movies is an elective semester class where students will explore movie soundtracks and how they enhance the film. Students will study how emotion and music relate, and will create music soundtracks of their own using digital resources. This class is project based.

## **Music Production**

**Grade: 9-12**

**Length of Course: semester/ half credit**

**Prerequisite: none**

**Type of credit: Fine Art**

Course Description: Music Production is an elective semester-long class where students will look at how music is written, recorded, and produced. In this project based class, students will use digital resources to create an original song, as well as covers of current songs while considering the various jobs in the music industry.

## **Music Appreciation**

**Grade: 9-12**

**Length of Course: semester/ half credit**

**Prerequisite: none**

**Type of credit: Fine Art**

Course Description: Music Appreciation is a one semester class centered around expanding horizons. In this class, students will learn about the history involved in different genres and ethnicities of music, as well as musical terms and background for a well-rounded introduction to music. At the end of this class, students should have a basic understanding of the world of music and our role in this world, as well as be able to read and compose their own musical examples.

**Guitar****Grade: 9-12****Length of Course: semester/ half credit****Prerequisite: none****Type of credit: Fine Art**

Course Description: This one-semester course is designed for students with no previous guitar experience. Students will receive instructions related to playing the guitar at a beginning level and will learn many of the different styles, skills and techniques required to become a successful guitarist. Areas of concentration include: correct posture, note reading, aural skills, rhythmic patterns, chord study, finger-picking styles, musical forms, improvisation and composition. Guitars provided.

**HS Band****Grade: 9-12****Length of Course: full year/ one credit****Prerequisite: none****Type of credit: Fine Art**

Course Description: High School Band is a course centered around the instrumental performance and understanding of music. This is the highest level of instrumental music education that is offered at Lone Jack High School. Skills range from basic rhythm and music technique to more complex and intricate music in a variety of styles and genres. Whether played as a large ensemble or in a small or soloistic environment, instruction will be based on improving the mastery and appreciation of music. This class involves many extracurricular and cocurricular activities that are expected of members of the class, including marching band, pep band, concert band, and solo and ensemble festival. This class has a history of excellence and involves practice and rehearsals outside of normal class time.



# **Family and Consumer Science ( Practical Arts)**

**(1 credit of Practical Art is required for graduation)**

## **Human Development**

**Grade: 9-12**

**Length of Course: semester/ half credit**

**Prerequisite: none**

**Type of credit: Practical Arts**

Course Description: This class begins with a study in human behavior and anatomy, human sexuality, sexually transmitted diseases and finally a major portion is spent on pregnancy. This course will be taught with a clinical approach. This is a lecture/discussion-based class.

## **Parenting and Child Development**

**Grade: 9-12**

**Length of Course: semester/ half credit**

**Prerequisite: none**

**Type of credit: Practical Arts**

Course Description: Parenting & Child Development helps prepare high school students for the rewards and challenges of parenthood. The lifetime job of parenting is the most difficult career students will face. Parenting & Child Development will help students understand parent readiness and responsibilities. Various parenting styles, development theories, self-esteem, and communication will also be explored. This course will also cover the different developmental stages from birth to teenage children.

## **Food Science**

**Grade: 9-12**

**Length of Course: semester/ half credit**

**Prerequisite: none**

**Type of credit: Practical Arts**

Course Description: Food Science is a semester long class. This course is an introduction to the basic principles of nutrition, wellness, and food preparation. The students will learn essential kitchen safety and sanitation procedures, common cooking terms and abbreviations, proper measuring techniques, and the use and care of laboratory equipment. This course will examine how to select, prepare and store a variety of foods. Lastly, students will be able to apply basic nutritional concepts in a food lab setting.

## **Advanced Food Science**

**Grade: 9-12**

**Length of Course: semester/ half credit**

**Prerequisite: Food Science**

**Type of credit: Practical Arts**

Course Description: Advanced Food Science is a semester long class. This course will examine topics that deal with nutrition in terms of serving size, healthy weights, and how to achieve them, and how to read a food label so that individuals can make informed decisions when it comes to eating food. This course will provide students with key cooking terms and techniques that they will use to prepare a variety of foods.

## **World Foods**

**Grade: 10-12**

**Length of Course: semester/ half credit**

**Prerequisite: Food Science and Advanced Food Science**

**Type of credit: Practical Arts**

Course Description: World Foods is a semester long class. In this course, the students will be evaluating different food lifestyles choices along with many different dietary restrictions that individuals have to live with and then choose and prepare recipes accordingly. We will take an in-depth look at many different cultures from around the world and examine their food customs and traditions and then prepare recipes to reflect those studies.

## **World Foods II**

**Grade: 10-12**

**Length of Course: semester/ half credit**

**Prerequisite: Food Science, Advanced Food Science, and World Foods**

**Type of credit: Practical Arts**

Course Description: World Foods II is a semester long class. In this course, the students will learn table etiquette and how to set a table, evaluate different diets and the pros and cons to each of them, examine different types of grains, legumes, seeds, soups, and spices from around the world and prepare recipes from each group. Lastly, we will explore food trucks and some advanced baking techniques.

## **Fashion and Interior Design**

**Grade: 9-12**

**Length of Course: semester/half credit**

**Prerequisite: none**

**Type of credit: Practical Arts**

Course Description: Fashion & Interior Design is a creative course in which students will learn the principles, elements and goals of design and will apply them to various fashion apparel, textiles and interior design concepts. Students will also cover the basics of the physical, psychological, social and cultural reasons for how we dress, where we live, textiles, fabric construction and selection for apparel and interior use, basic sewing skills that are applied in a variety of ways. Self-initiative, motivation, time management, independent work, following directions and self-evaluation are crucial skills in this course where art, communication, mathematics, science and technology are applied.

# Project Lead the Way (Practical Arts)

## **Project Lead the Way: Introduction to Engineering Design (IED)**

**Grade: 9-10 (11-12 with teacher approval)**

**Length of Course: full year/ one credit**

**Prerequisite: none**

**Type of credit: Practical Arts**

Course Description: Introduction to Engineering Design (IED) is a high school level course that is appropriate for 9th or 10th grade students who are interested in design and engineering. 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.

## **Project Lead the Way: Principles of Engineering (POE)**

**Grade: 10-12**

**Length of Course: full year/ one credit**

**Prerequisite: PLTW IED and teachers approval**

**Type of credit: Practical Arts**

Course Description: Principles of Engineering (POE) is a high school-level survey course of engineering. 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.

# Industrial Technology (Practical Arts)

## **Industrial Technology**

**Grade: 9-12**

**Length of Course: semester/ half credit**

**Prerequisite: none**

**Type of credit: Practical Arts**

Course Description: A basic course in woodworking and sketching. Students will be learning the correct operating procedures of all power tools, including properly changing blades, bits, and parts. An emphasis will also be placed on safety guidelines, sketching & planning, woodworking techniques, assembly procedures, and finishing techniques.

## **Advanced Industrial Technology**

**Grade: 9-12**

**Length of Course: semester/ half credit**

**Prerequisite: Industrial Technology**

**Type of credit: Practical Arts**

Course Description: A course in woodworking and sketching and 3D modeling. Students will be learning the correct operating procedures of all power tools, including properly changing blades, bits, and parts. An emphasis will also be placed on safety guidelines, sketching & planning, woodworking techniques, assembly procedures, and finishing techniques. The students will also be working in groups to create several presentations including safety procedures & cost analysis.

# Agriculture (Practical Arts)

## **Agriculture Science I**

**Grade: 9-10**

**Length of Course: full year/ one credit**

**Prerequisite: none**

**Type of credit: Practical Arts**

Course Description: Topics covered are agricultural careers, FFA history and involvement, the Supervised Agricultural Experience (SAE), record keeping, leadership and personal development, ag mechanics and a heavy emphasis on animal science. All students are required to keep and maintain an SAE project and record book. This is the prerequisite course for all other high school agriculture classes. FFA membership is required.

## **Agriculture Construction**

**Grade: 10-12**

**Length of Course: full year/ one credit**

**Prerequisite: Agriculture Science I**

**Type of credit: Practical Arts**

Course Description: This course utilizes welding in the development of construction of major projects. Basic welding skills will be mastered in ARC, MIG, and TIG. Students will be required to complete one or more projects. All students are required to keep and maintain an SAE project and record book.

## **Fish and Wildlife Conservation**

**Grade: 10-12**

**Length of Course: full year/ one credit**

**Prerequisite: Agriculture Science I**

**Type of credit: Practical Arts**

Course Description: This course 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. MO Hunter Education and MO Boaters license will be obtained. All students are required to keep and maintain an SAE project and record book.

## **Forest Management**

**Grades: 10-12**

**Length of Course: semester/ half credit (Fall semester)**

**Prerequisites: Agriculture Science I**

**Type of credit: Practical Arts**

Course Description: A course designed to cover the following topics related to the forestry industry: careers, plant identification, measuring timber, silvicultural practices, forest resource protection, forest management plans, chainsaw safety and operation. Students will prepare for the forestry career development event to be held in the spring. All students are required to keep and maintain an SAE project and record book. FFA membership is required.

## **Agricultural Management and Economics**

**Grades: 10-12**

**Length of Course: semester/ half credit (Spring semester)**

**Prerequisites: Agricultural Science I**

**Type of credit: Practical Arts**

Course Description: A course designed to cover the following topics related to agricultural management and economics; economic principles( maximization of profit, opportunity cost, time value of money); business management (buying land, contracts, records, depreciation, insurance); planning and farm business ( setting goals, machinery needs, profitable livestock operations, estate planning). Students will prepare for the Farm Management career development event in the spring. All students are required to keep and maintain an SAE project and record book. FFA membership is required.

## **Animal Science**

**Grades: 10-12**

**Length of Course: full year/ one credit**

**Prerequisites: Agricultural Science I**

**Type of credit: Practical Arts**

Course Description: In depth exploration of all aspects of animal science. Topics covered will include: Grassland Management, nutrition, reproduction, health, handling facilities, selection and evaluation. Students will compete in the Grassland Evaluation contest in the fall and Livestock or Dairy Cattle Evaluation in the spring. All students are required to maintain a SAE project and record book. FFA membership is required. **Dual credit is available through the University of Central Missouri. If taking this course for dual credit, the cost is \$92.00 per credit hour.**

# **Business (Practical Arts)**

## **Multimedia**

**Grade: 9-12**

**Length of Course: semester/ half credit**

**Prerequisite: none**

**Type of credit: Practical Arts**

Course Description: This course gives students a consistent framework for research and teamwork. Students will have the opportunity to use multiple forms of technology to think through the process of gathering information and presenting them to a large audience. Students will work to develop skills in research, informative writing, public speaking, multimedia and publishing. Our goal is to be able to create weekly news clips that will help our students be informed about what is going on around our school.

## **Marketing**

**Grade: 9-12**

**Length of Course: semester/ half credit**

**Prerequisite: none**

**Type of credit: Practical Arts**

Course Description: This course is designed to introduce students to a broad understanding of the field of marketing. Students will explore the Marketing Mix, advertising/promotions, economics and sales. Students will gain an understanding of the fundamental marketing process. In this class, students will have the opportunity to develop their own products and develop strategies to get these products launched to market. This is an excellent course for any student interested in the fields of: marketing, business, advertising, sales, business ownership, or social media.

## **Computer Applications**

**Grade: 9-12**

**Length of Course: semester/ half credit**

**Prerequisite: none**

**Type of credit: Practical Arts**

Course Description: Students will be exposed to practical examples of working with the computer while utilizing the Google Suite Package. Students will learn the proper procedure to create docs, sheets, and slides suitable for course work in a person's professional life as well as personal. We will also take an introductory look into computer coding giving the students a step up when taking courses at Summit Tech.

## **Accounting**

**Grade: 9-12**

**Length of Course: semester/ half credit**

**Prerequisite: none**

**Type of credit: Practical Arts**

Course Description: Students will be exposed to practical examples of accounting while exploring the financial side of a business. Students will be given an opportunity to learn the process of gathering, recording, posting, and interpreting financial data. We will utilize spreadsheets as well as other applications. This course will be advantageous to those interested in becoming an accountant or those interested in starting their own business.

**Personal Finance****Grade: 11-12****Length of Course: semester/ half credit****Prerequisite: none****Type of credit: Graduation Requirement**

Course Description: This course gives students a consistent framework for thinking through financial choices in order to improve their well-being. Decisions require action. Students who take charge of their finances are better prepared to invest in themselves and cope with the financial ups and downs that life will bring. An activity and project-based approach will be used. Our goal is to go through the game of life and make sure our students are ready for the world after high school.

**Desktop Publishing (Yearbook)****Grade: 10-12****Length of Course: full year/ one credit****Prerequisite: Application and Interview process****Type of credit: Practical Arts**

Course Description: This course helps produce the Lone Jack High School yearbook. In this course, students will gain skills in the following areas: page design, publishing techniques, copywriting, editing, photography, record keeping, time management, teamwork, marketing, and leadership skills. Students are tasked with producing a timeless, creative, and innovative publication which will record our school's community, memories and events.



# Health and Physical Education

( $\frac{1}{2}$  Health and 1 Physical Education credits are required for graduation)

## **Health**

**Grade: 9-12**

**Length of Course: semester/ half credit**

**Prerequisite: none**

**Type of credit: Graduation Requirement**

Course Description: Students will develop skills in decision making, acquire health information which will help identify and prevent health problems, and develop a positive attitude for a healthy lifestyle.

## **Intramural Sports**

**Grade: 9-12**

**Length of Course: full year/ one credit**

**Prerequisite: none**

**Type of credit: Elective**

Course Description: Students will learn the skill set and schematics of various sports before playing in a controlled, but competitive environment. This class should be for students who have an active lifestyle and want to compete with their classmates while learning the intricacies of various sports.

## **Strength and Conditioning**

**Grade: 9-12**

**Length of Course: full year/ one credit**

**Prerequisite: none**

**Type of credit: Elective**

Course Description: This course is designed to maximize students' wellness. The student will be exposed to the following: warm-ups, speed and agility training, and weight training. This course is designed off of three basic principles:

- 1) Movement Preparation,
- 2) Mastery of movement,
- 3) Mastery of movement under a load.

Students will be expected to be able to read and execute the prescribed programming, as well as track their own data. This class is for athletes and students aspiring to better themselves and their bodies. The athletes need to understand that this is an extension of your athletic team.

# Foreign Language

(For Foreign Language, 1 credit is required and 2 credits are encouraged if a student is college bound.)

## **Spanish I**

**Grade: 9-12**

**Length of Course: full year/ one credit**

**Prerequisite: none**

**Type of credit: Required**

Course Description: The Spanish I class is a yearlong course that will provide the student with a general introduction to the Spanish language. The focus of the class will be: pronunciation, functional vocabulary related to everyday life, cultural information and basic grammatical structures. In accordance with the Missouri State Show-Me Standards for Foreign Language, the Spanish I Foreign Language course is designed to include the four communicative skills, listening, speaking, reading, and writing.

## **Spanish II**

**Grade: 9-12**

**Length of Course: full year/ one credit**

**Prerequisite: Spanish I**

**Type of credit: Elective**

Course Description: The Spanish II class is a yearlong course. It is a continuation of Spanish I, which will add new material and build on material learned in the previous year. In accordance with the Missouri State Show-Me Standards for Foreign Language, the Spanish I Foreign Language course is designed to include the four communicative skills, listening, speaking, reading, and writing. In addition, aspects of the Hispanic culture are highlighted throughout the course. Students will be expected to apply them in their writing and speaking.

## **Spanish III**

**Grade: 10-12**

**Length of Course: full year/one credit**

**Prerequisite: Spanish I and Spanish II**

**Type of credit: Elective**

Course Description: Spanish III furthers the study grammar, vocabulary, and cultures of Spanish -speaking countries. Students improve listening, writing, reading and speaking skills.

# Elective

**A+**

**Grade: 9-12**

**Length of Course: semester/ half credit**

**Prerequisite: none**

**Type of credit: Elective**

Course Description: Students will be assigned to either the primary, elementary, junior high, or high school to tutor and/or mentor younger students in order to fulfill the A+ tutoring/mentoring requirement (50 hours). A+ Tutors will assist younger students in areas such as reading, math, science, and social studies. Students will be responsible for maintaining a time log and a daily journal.

## **School Flex Program**

**Grade: 12**

**Length of Course: full year/ one credit**

**Prerequisite: Must have a job before school starts**

**Type of credit: Elective**

Course Description: The School Flex Program is part of a system that provides a structured connection between the classroom and the workplace for high school students. Through this opportunity students are able to prepare themselves to meet the demands of a highly skilled workforce. The School Flex course contains school based learning, work based learning, and connecting activities. The School Flex course provides a capstone course for student career planning and preparation.