## Louisiana High School



## Course Offerings Registration Guide

## Table of Contents

FOUR YEAR COLLEGE REQUIREMENTS ..... 4
LHS GRADUATION REQUIREMENTS ..... 4
GENERAL EDUCATION DIPLOMA ..... 5
CAREER \& TECH DIPLOMA ..... 5
COLLEGE PREP DIPLOMA ..... 5
STUDENT LETTER ..... 6
STUDENT PRE-REGISTRATION ..... 7
ACADEMIC PROGRESS TOWARD GRADUATION ..... 7
CONNECTING TO YOUR FUTURE ..... 8
LHS CORE AREA STUDY OF SEQUENCES ..... 10
Language Arts: ..... 10
Mathematics: ..... 10
Social Studies: ..... 10
Science: ..... 10
DESCRIPTIONS OF LHS CLASS OFFERINGS ..... 11
ENGLISH ..... 11
SOCIAL STUDIES ..... 12
SOCIAL STUDIES ELECTIVES ..... 13
MATHEMATICS ..... 13
SCIENCE ..... 15
SCIENCE ELECTIVES ..... 15
FOREIGN LANGUAGE ..... 16
FINE ARTS ..... 16
PRACTICAL ARTS ..... 17
AGRICULTURAL SCIENCE \& INDUSTRIAL TECHNOLOGY ..... 18
PHYSICAL EDUCATION AND HEALTH ..... 19
ELECTIVES ..... 19
PIKE/LINCOLN TECHNICAL CENTER ..... 21
PIKE LINCOLN TECHNICAL CENTER PROGRAMS INCLUDE: ..... 22
AUTO COLLISION TECHNOLOGY I \& II ..... 22
AUTO MECHANICS TECHNOLOGY I \& II ..... 22
BUILDING TRADES TECHNOLOGY ..... 22
3D MODELING I \& II ..... 22
COMPUTER TECHNOLOGY \& NETWORKING I \& II ..... 23
DIGITAL MEDIA I \& II ..... 23
HEALTH SCIENCES I \& II ..... 23
LAW ENFORCEMENT ..... 23
WELDING TECHNOLOGY I \& II ..... 23

## LHS ALTERNATIVE EDUCATION PROGRAM <br> 24

MISSOURI OPTION PROGRAM ..... 24
LOUISIANA HIGH SCHOOL FLEX PROGRAM ..... 24

## FOUR YEAR COLLEGE REQUIREMENTS

| English: | 4 years. |
| :--- | :--- |
| Social Studies: | 3 years, state exam for Missouri History does not count toward a year if credit. |
| Math: | 3-4 years, including Algebra II or a higher math class. |
| World Language: | 2 years of one language. |
| Science: | 2 years (minimum of one year of lab required. |
|  | *Some colleges require a Math-Science class such as Chemistry or Physics) |
| Visual Arts: | 1 year |

## LHS GRADUATION REQUIREMENTS

## SUBJECT

Communication Arts
Social Studies
Mathematics
Science
Fine Arts
Practical Arts
Physical Education
Health $1 / 2$

Personal Finance 1/2
Electives
Total

REQUIREMENTS
4
3
3
3
1
1
1
$1 / 2$

7
24

Testing Requirements --- all high school graduates in the state of Missouri are required to pass a Missouri and U.S. Constitution tests. All students are required to participate in End of Course exams in the areas of Algebra I, English II, Biology, Government, and Algebra II (if Algebra I was completed at the middle school level). LHS students are required by the state of Missouri to pass a CPR course as well as a US Civics Assessment. All LHS graduates are required to take ASVAB testing at the $11^{\text {th }}$ grade level along with Work Keys for those seniors entering the workforce or a technical/vocational training after graduation.

## GENERAL EDUCATION DIPLOMA

| General Education Diploma | Credits Required |
| :---: | :---: |
| English (including English 1 and English II) | 4 |
| Science | 3 |
| Mathematics (including Algebra 1 or competency equivalent) | 3 |
| Social Studies (including American History and Government) | 3 |
| Fine Arts | 1 |
| Practical Arts | 1 |
| Physical Education | 1 |
| Health | 1/2 |
| Personal Finance | 1/2 |
| Electives | 7 |
|  | 24 |

## CAREER \& TECH DIPLOMA

A student at Louisiana High School will be awarded a Career \& Tech Diploma by meeting the following qualifications prior to graduation; complete high school with a minimum attendance of $95 \%$ and a minimum GPA of 2.5 along with the credits listed below.

Career \& Tech Prep Diploma
English (including English 1 and English II) 4
Science 3
Mathematics (including Algebra 1 or competency equivalent) 3
Social Studies (including American History and Government) 3
Fine Arts 1
Physical Education 1
Health 1/2
Career \& Technical Education* 4
Business/Computer Education** 1
Personal Finance $1 / 2$
Electives $\underline{3}$

## COLLEGE PREP DIPLOMA

A student at Louisiana High School will be awarded a College Prep Diploma by meeting the following qualifications prior to graduation; complete high school with a minimum attendance of $95 \%$ and a minimum GPA of 3.0 along with the credits listed below.
College Prep Diploma

| English | 4 |
| :--- | :--- |
| Speech | $1 / 2$ (L.A. Elective) |
| Science | 3 |
| Mathematics (including Algebra 1 or higher) | 4 |
| Social Studies (including American History and Government) | 3 |
| Fine Arts | 1 |
| Practical Art | 1 |
| Physical Education | 1 |
| Health | $1 / 2$ |
| Business/Computer Education*** | 1 |
| Foreign Language | 2 |
| Personal Finance | $1 / 2$ |
| Electives | $\underline{2.5}$ |
|  | 24 |

*Must be Agriculture Science, Business, or PLTC
**Requirements may be substituted with vocational class if attending PLTC
***Requirements may be substituted with dual credit courses from CMU

## STUDENT LETTER

Dear Student:

You are about to begin the important process of selecting your classes for the upcoming school year. You are encouraged to think carefully about the choices you make in selecting your courses, as the class you select may affect your future opportunities, as well as your overall satisfaction with school.

This course catalog contains most of the information you need to know about our class offerings and educational opportunities. In addition, information about graduation requirements and scheduling procedures are included. It is important to note that not all courses listed here are offered each semester or year. Some courses may not be offered due to student sign-ups, resources available and/or teacher availability.

Listing of a course under a particular subject heading indicates the course qualifies for meeting subject area requirements for graduation unless stated otherwise. Prerequisites are listed to ensure students have the appropriate level of skills when they enter the class. Classes with prerequisites are generally part of a sequence of courses. It is important to review the prerequisites because students who do not have the necessary qualifications will not be permitted to enroll in the class.

As you prepare for pre-registration and your selection of classes, please keep the following priorities in mind:

1. Graduation Requirement: The high school graduation requirements ensure that each student will attain a certain level of competency, meet the state requirements and complete a well-rounded high school program. A minimum of 24 credits is required for graduation, and seniors must have met all the graduation requirements in order to participate in the graduation ceremony.
2. Future Plans: Very few high school students know exactly what they intend to do after graduation. In fact, interest and plans often change with experience and education. It is important, therefore, to take courses that lay a foundation for post high school training. Whether your future includes a 2 or 4 year college, career training, the military or employment options, you are encouraged to keep your options open. Take advantage of the comprehensive education program Louisiana High School has to offer and select from the variety of courses we have available, including college preparatory, academic, artistic, career and technical education and general courses.
3. Career Pathways: Students are encouraged to select a pathway based on career interest inventories, interests and experiences, and after talking with parents, their counselor and teachers. Courses should be selected that relate to one of the six pathway choices: Industrial \& Engineering Technology, Human Services, Natural Resources Agriculture, Business, Management \& Technology, Arts \& Communication, or Health Services.
4. Aptitudes and Abilities: Students should be realistic about their strengths and abilities. Students are encouraged to enroll in classes that are challenging, rewarding, and motivating.

Best wishes in making your course selections. If you have questions, please contact the counselor, a teacher or the principal.

The LHS Administration

## STUDENT PRE-REGISTRATION

Louisiana High School operates on a semester system, with the length of courses from one semester to a full year. Please keep the following guidelines in mind when completing pre-registration:

- Students will identify their entire year's schedule during pre-registration. Students are asked to take these choices seriously, as every effort will be made to accommodate the students' requests as we build the master schedule.
- Students must take seven classes each semester. Seniors may elect to take six classes and enroll in the Student Outreach Community Service Program or an Academic Lab hour, with counselor approval. Seniors who are behind in credits must enroll in seven classes.
- Some required core credits will be determined by academic standing, allowing for students' individual needs. Parents and staff may be of assistance in selecting the best possible class to meet a given requirement.
- Most classes may be taken only once for credit and may be taken only once per semester. Students may not enroll in more than one period of PE, Academic Lab, or Student Outreach Community Service in a day.
- Schedules will be registered on a first come first serve basis please remember to meet deadlines and turn in your completed scheduling worksheet as soon as you complete it.


## ACADEMIC PROGRESS TOWARD GRADUATION

To be eligible to graduate from Louisiana High School, a student must earn a minimum of 24 credits and meet the course requirements established by the Louisiana R-II School District and the state of Missouri. To attain the 24 credits, the student must successfully pass a minimum of 48 semester classes.

While enrolled at Louisiana High School, students are expected to maintain regular attendance and make consistent academic progress toward graduation. Academic progress includes the successful completion of several required classes. A student's grade level is determined by earned credits. A student who is enrolled full-time and successfully completes all classes is eligible to earn 7 credits each year.

If a student fails a class or falls behind on credits, he/she will be encouraged to attend summer school.

## CONNECTING TO YOUR FUTURE Missouri Career Pathways with the 16 Career Clusters

The Career Pathways are progressive steps of development of skills and knowledge within a specific area of work. There are currently six major pathways. There are 16 career clusters that provide a way for schools to organize instruction and student experiences around broad categories that encompass virtually all occupations from entry through professional levels.

Missouri Career Pathway for Arts \& Communications - Occupations on this path are related to the humanities and performing visual, literary, and media arts. These include architecture, graphic, interior, and fashion design, writing, film, fine arts, journalism, languages, media, advertising, and public relations. The Career Cluster is:

- Arts/AV technology \& Communications - Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

Missouri Career Pathway for Business Management \& Technology - Occupations on this path are related to the business environment. These include entrepreneurship, sales, marketing, computer/information systems, finance, accounting, personnel, economics, and management. The Career Clusters are:

- Business, Management $\mathcal{\&}$ Administration - Planning, organizing, directing and evaluating business functions essential to efficient and productive business operations.
- Finance - Planning, services for financial and investment planning, banking, insurance, and business financial management.
- Information Technology - Entry level, technical, and professional careers related to design, development, support \& management of hardware, software, multimedia, and systems integration.

Missouri Career Pathway for Health Services - Occupations on this path are related to the promotion of health and the treatment of disease. These include research, prevention, treatment, and related health technologies. The Career Cluster is:

- Health Science - Planning, managing, and providing therapeutic services, diagnostic services, health information, support services, and biotechnology research and development.

Missouri Career Pathway for Human Services - Occupations in this path are related to economic, political, and social systems. These included education, government, law and law enforcement, leisure and recreation, military, religion, childcare, social services, and personal services. The Career Clusters are:

- Marketing, Sales \& Service - Planning, managing, and performing marketing activities to reach organizational objectives.
- Law, Public Safety, and Corrections \& Security - Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.
- Education \& Training - Planning, managing and providing education and training services, and related learning support services.
- Government \& Public Administration - Foreign Service, revenue and taxation, regulation, and management and administration at the local, state, and federal levels.
- Human Services - Preparing individuals for employment in career pathways that relate to families and human needs.
- Hospitality \& Tourism - Hospitality \& tourism encompasses the management, marketing and operations of restaurants and other food services, lodging attractions, recreation events and travel related services.

Missouri Pathways for Industrial \& Engineering Technology - Occupations in this path are related to technologies necessary to design, develop, install and maintain physical systems as in construction and building fields. These include engineering, manufacturing, construction, service, and related technologies. The Career Clusters are:

- Manufacturing - Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacture/process engineering.
- Science, Technology, Engineering \& Mathematics - Laboratory and testing services, research and development services.
- Architecture \& Construction - Careers in designing, planning, managing, building and maintaining the built environment.
- Transportation, Distribution \& Logistics - Planning, management, and movement of people, materials, and goods by road, pipeline, air rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

Missouri Career Path for Careers in Nature- Occupations in this path are related to agriculture and natural resources. These include agricultural sciences, earth sciences, environmental sciences, fisheries, forestry, horticulture, and wildlife. The Career Cluster is:

- Agriculture, Food \& Natural Resources - The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products and resources.



## LHS CORE AREA STUDY OF SEQUENCES

Language Arts:
(4 Credits Required)
Freshmen:
Sophomore:
Junior Year:
Senior Year:

English I
English II
American Lit, or Honors Lit** (DC W)
Applied English**, Sci Fi Fantasy/Mythology, or Honors Comp I/II** (DC W)

## Mathematics:

(3 Credits Required) All math placements are by teacher recommendation.
Incoming freshmen must score advanced or proficient on the Algebra 1 EOC at the eighth grade level to advance to Geometry their ninth grade year. Math sequence read left to right.
Freshmen:

| Algebra A | Algebra B | Geometry or Interm Alg | Algebra II |
| :--- | :--- | :--- | :--- |
| Geometry | Algebra II | Pre-Calculus/Trig (W) | Hon Coll Alg |
| Geometry | Int Alg, | Alg II | Pre-Calculus/Trig (W) or |
|  |  |  | Hon Coll Alg (W DC) |

Social Studies:
(3 Credits Required)
Freshmen: American History
Sophomore: World History
Junior:
Senior:
Social Studies Elective may be taken 11th grade:
Social Studies Elective may be taken $12^{\text {th }}$ grade:
Government
Geography I/II
History Through Film
Psychology (W) or History Through Film

Science:
(3 Credits Required)
Freshmen:
Physical Science
Sophomore:
Junior/Senior:
Biology or Applied Biology
Community Chemistry* or
Forensics
Honors Anatomy (DC) (W)
Honors Chemistry (DC) (W)* Offered 2019/21
Honors Biology (DC) (W)* Offered 2020/2022
Physics (W)* Offered 2019/21
DC -- Dual Credit W -- Weighted

[^0]
## DESCRIPTIONS OF LHS CLASS OFFERINGS

## ENGLISH

## Language Arts placement for grades 11 and 12 are based on academic standing.

## ENGLISH I - Required Course, 1 credit, grade 9

Language Arts 1 is the first in a sequence of English courses designed to help students improve grammar and mechanics, as well as reading and writing skills. Literature studied will be a mixture of short stories, plays and poetry. A research project is required. Attendance/participation points are recorded daily.

## ENGLISH II - Required Course, 1 credit, grade 10 Prerequisite: English I

Emphasis is placed on the further development of basic skills including improving the student's reading comprehension through a variety of literary genre. Comprehension will be emphasized and demonstrated through projects and tests. Writing skills will be sharpened with attention and practice of analysis and summary, review, research format, creative writing and the essay format. A research project is required. *End of Course (EOC) assessment required. Attendance/participation points are recorded daily.

APPLIED ENGLISH - 1 credit, grade 12 Prerequisite: English I, II, \& III
Students will practice a variety of applications of English and communication arts skills necessary in today's business world. Additionally, students will read a variety of literary genres to develop reading comprehension and analysis skills. Essay writing, summaries, letters and reviews will be emphasized. This is targeted for school-to-work students rather than college preparatory students. A research project is required. Placement determined by academic standing. Attendance/participation points are recorded daily.

## SCIENCE \& FANTASY -- $1 / 2$ credit, grade 11 or 12 offered semester 1. Prerequisite: English I \& II

The course is intended to acquaint the student with a variety of writers in two genres. This course will explore Fantasy in general and Science Fiction in specific both as art and as insights into ourselves and our world with both cultural and psychological themes in mind. Science fiction will include early classic writers like Asimov, Bradbury and Clarke. Fantasy will include a variety of works from prominent short story authors from McCaffrey to Lovecraft, LeGuin and Zelasny. Attendance/participation points are recorded daily.

## MYTHOLOGY - $1 / 2$ credit, grade 11 or 12 offered semester 2. Prerequisite: English I \& II

Classical Mythology is a survey of ancient Greek and Roman stories about heroes, gods and the universe and illustrates the influence of these myths on the art, literature and culture of the modern world. The class will take forays into mythology of other cultures for comparison and contrast purposes. The class is heavily focused on independent reading. Attendance/participation points are recorded daily.

## AMERICAN LITERATURE - 1 credit, grade 11 or 12 Prerequisite: English I \& II

Students will read about the customs and cultures of several different time periods that have led to the construction of our current society. This is an important area of study for our students as the United States was founded on the basis of a variety of cultures. This course will also include a research paper and mandatory outside reading requirements. Attendance/participation points are recorded daily.

HONORS LITERATURE-1 credit, grade 11 or 12 Prerequisite: English I and II; must have at least a 2.5 GPA. This course is available as a Dual-Credit Course with a 3.00 GPA requirement.
The purpose of this study is to supplement the curricula of social and urban studies classes at the secondary level, by introducing Early World Literature and its influences in contemporary society as a means to develop or reinforce basic learning skills. This course also includes mandatory outside reading requirements. Dual Credit requirement: 3.00 GPA. Must have a 3.0 GPA in this course to take Honors Comp. I and Honors Comp. II.

Attendance/participation points are recorded daily.

HONORS COMPOSITION I - ½ credit, grade 12 Prerequisite: American Lit, Intro to Lit, or Contemporary Lit. This course is available as a Dual-Credit Course with a 3.00 GPA requirement.
Honors Composition I is an introduction to expository and argumentative writing, emphasizing reading, critical thinking, and analytical skills. Several short papers are assigned, with emphasis on the writing process. A comprehensive portfolio is required at the end of the semester. This is a dual credit English course, and all materials presented in this class are college level requirements. This course also includes mandatory outside reading requirements. Attendance/participation points are recorded daily.

HONORS COMPOSITION II - $1 / 2$ credit, grade 12 Prerequisite: Honors Composition I This course is available as a Dual-Credit Course with a 3.00 GPA requirement.
Honors Composition II, a continuation of Honors Composition I, emphasizes longer and more impersonal and critical writing forms. It is designed to teach evaluation of source materials, principles of research, and organization of thought and writing. A thorough use of library resources is required for the bibliography unit and the final research paper. A portfolio is also required. This is a dual credit English course, and all materials presented in this class are college level requirements. This course also includes mandatory outside reading requirements.
Attendance/participation points are recorded daily.
SPEECH - Elective course, $1 / 2$ credit, grades $10,11,12$ This is an elective that does not fulfill the 4 credit Language Arts requirement. This does fulfill the Speech requirement for a College Prep Diploma. Students will become acquainted with the fundamentals of public speaking. Students will research, compose, and deliver various kinds of speeches to student audiences and/or other appropriate groups. Attendance/participation points are recorded daily.

## SOCIAL STUDIES

## AMERICAN HISTORY - Required Course, 1 credit, grade 9

Students will survey the history of the United States from Reconstruction to the present. Students will identify important developments, events, and personalities in chronological order. Activities will include note taking from lectures, class discussions, map work, essay writing, individual and class projects. This course includes the study of the Missouri Constitution, and students must pass the Missouri Constitution assessment to be eligible for graduation.

## WORLD HISTORY -- 1 credit, grades 10, 11 or 12

This course will cover the entire span of world history from ancient to Modern times. This history of Africa and Asia are included. Activities will include note taking from lectures, discussions, map work, essay writing, quizzes, tests and projects. This course is strongly recommended for juniors. Attendance/participation points are recorded daily.

## AMERICAN GOVERNMENT - Required Course, 1 credit, grade 11, End of Course assessment required.

 In American Government class students will analyze the foundations of the American political system. Students will discover how the government established by the Constitution embodies the purposes, values, and principles of American democracy. In addition students will explore federalism and the political process used in the United States. This course includes requirements for graduation, students must pass the United States Constitution test and US Civics Test. Attendance/participation points are recorded daily.
## PERSONAL FINANCE - Required course $1 / 2$ credit, grade 10, 11, 12.

Personal Finance focuses on teaching students to make wise financial decisions. Students will learn about their role in the marketplace and how to sharpen their consumer skills. Examples of topics covered in this course are the process of keeping personal financial records, creating and maintaining a budget, insurance, paying taxes, understanding the importance of saving, investments, retirement planning, consumerism, and credit.

## SOCIAL STUDIES ELECTIVES

## GEOGRAPHY - ½ credit, first semester grade 10,11 , or 12 with teacher recommendation

In this course students will use a variety of methods to look at the world geographically as a whole. The student will learn and use the five themes of geography in order to see the relationship between the people and the world in which they live. The continents of North America, South America, \& Europe will be examined in great detail looking at both their physical \& cultural geography. Grades will be based on note taking, projects, quizzes, \& attendance/participation.

## GEOGRAPHY II $-1 / 2$ credit, grades 10 , 11 or 12 with teacher recommendation

As a continuation of Geography 1, this course will use a variety of methods to cover the physical and cultural geography of the continents of Africa, Asia, Australia, \& Antarctica. The five themes of geography will be applied to show the relationship between the people and the world in which they live. Grades will be based on note taking, projects, quizzes, \& attendance/participation.

## HISTORY THROUGH FILM - 1 credit, grade 10, 11, or 12

An examination of World and U.S. History through the lens of film and movies. Includes the study of primary and secondary sources in order to critically analyze the accuracy of the film, as well as the purpose and direction of the film. We will look at the following time periods:The Ancient World, Age of Revolutions, Age of Imperialism, World Wars, The Cold War and the Modern Era.

HONORS AP PSYCHOLOGY - 1 credit, grade 12 Elective Course,. This course recommended for those seeking a post-secondary degree in Education, Health Science, Psychology, or Sociology. This is a weighted elective that does not fulfill the $\mathbf{3}$ credit social studies requirement. The purpose of AP Psychology is to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. A variety of activities, demonstrations, and projects will be provided to meet this goal of instructing scientific and empirical approaches. There is a rigorous writing and reading component with the course. Grades will be based on writing assignments, projects, presentations, homework, and test scores. To earn the AP credit students must receive a score of 3 or higher on the AP exam given at the end of the year. Attendance/participation points are awarded daily.

## MATHEMATICS

## Math placement is based on academic standing.

PRE - ALGEBRA -- 1 credit, grade 9 Prerequisite for this class are a "below basic," or "basic" with teacher recommendation on the 8 th grade MAP test. This is a course to prepare for the study of Algebra. All topics are middle school review. They will include integers, fractions, expressions, equations and inequalities, percentages, geometry and probability.

## *ALGEBRA A \& B 2 credits, grades 9/10 or 10/11. Algebra A\& B is a two-year sequence course.

ALGEBRAA -- 1 credit Prerequisite for this class are a "basic" or "below basic" with teacher recommendation on the 8th grade MAP test. This is a mathematics course that introduces the basic concepts of Algebra. Application and use of mathematics in applied settings will be introduced. Topics covered will include expressions, linear equations and functions, linear inequalities, and systems of equations and inequalities. Algebra is the foundation of all advanced mathematics classes.

## ALGEBRA B -- 1 credit. End of course assessment required.

The prerequisite for Algebra B is to have passed Algebra A.
This course is a continued sequence mathematics course following the completion of Algebra A . Application and use of mathematics in applied settings will be continued. Topics covered will include exponential properties and functions, polynomials and factoring, quadratic equations and data analysis. Algebra is the foundation of all advanced mathematics classes.


#### Abstract

ALGEBRA I -- 1 credit, grade 9 Prerequisite From 8 grade - 70\% or above on math placement test and teacher recommendation. End of Course assessment required. This is a mathematics course that introduces the basic concepts of Algebra. Topics covered will linear equations and functions, linear inequalities, systems of equations and inequalities, exponential properties and functions, polynomials and factoring, nonlinear equations and inequalities and data analysis. Algebra is the foundation of all advanced mathematics classes.


## INTERMEDIATE ALGEBRA -- 1 credit, grades 10, 11, or 12 Prerequisite: Algebra I or Algebra B \& teacher recommendation. <br> This course is a continuation of the concepts presented in Algebra I/Algebra B. Topics include, but are not limited to, solving equations, solving systems of equations, applying mathematical properties to solve problems. <br> Attendance/Participation points are recorded daily.

GEOMETRY - 1 credit, grades 9, 10, 1112 Prerequisite: Algebra 1 EOC score of proficient or advanced at the eighth grade level is required for enrollment in this course freshmen year.
Geometry is the study of shapes and forms, the relationship between them and the proof of these relationships. Topics will include essentials of geometry, reasoning through proofs, parallel and perpendicular lines, congruent triangles and triangle relationships, circles, probability, transformations and solids and volume. This course develops logical thinking and an ability to make critical evaluations. This is a college preparatory course.

ALGEBRA II - 1 credit, grades 10, 11, 12 Prerequisite: Algebra I, Geometry/teacher recommendation, This is a mathematics course that continues the study of Advanced Algebra Concepts; including matrix algebra, conic sections, factoring techniques, and trigonometry. Successful completion of previous coursework is required for all 10, 11, and 12 grade students. Attendance/participation points are recorded daily.

## HONORS PRE CALCULUS W/ TRIG - 1 credit, grades 11 \& 12 Prerequisite: Algebra II/teacher recommendation <br> This mathematics course continues the study of Advanced Algebra, provides a continuation of trigonometry and conic sections. Successful completion of previous mathematics courses is required for all 10, 11, and 12 graders. <br> This class is a MUST TAKE class for All Students Planning to Attend College. EOC is required for all students taking this course. Attendance/participation points are recorded daily.

HONORS COLLEGE ALGEBRA - 1 credit grade 12 Prerequisite: ACT Math subscore $>/=22$ \& teacher recommendation. This course is recommended for all students seeking a post- secondary degree. This is a one semester course that consists of the study of equations and inequalities. Students will have the opportunity to take this as a dual credit course and receive 3 hours of college credit for successful completion of the course. Prerequisite for Dual Credit: ACT Math subscore $>/=\mathbf{2 2} \boldsymbol{\&}$ teacher recommendation. Attendance/participation points are recorded daily.

INTEGRATED MATHEMATICS - 1 credit over a two year period, grade $11 \& 12$ Prerequisite: Enrollment at Pike/Lincoln Technical Center This is a 2 year ( 4 semester program), 1 credit which counts as an elective credit for tech students it does not fulfill the math credit requirement. This course is embedded in the tech prep programs and is designed to emphasize the use of high-level mathematics and problem solving skills. The curriculum will include basic math calculations, measurements, ratio and proportions, statistics, basic algebra, and geometry/trigonometry.

Successful completion of the exit exam is required for high school credit. This math class will prepare students for union and apprenticeship tests.

## SCIENCE

## PHYSICAL SCIENCE - 1 credit, grades 9, 10, 11, 12

This course is an introduction for physics and chemistry. Students will be able to gain laboratory skills that will help them succeed in higher -level science courses. Students will study the basic principles of matter and energy, force and motion, the process of scientific inquiry, as well as the impact of science and technology on the environment. Homework and problems based on algebraic equations are included in this course. Attendance/participation points are recorded daily.

## APPLIED BIOLOGY - 1 credit, grades 10, 11, 12 End of Course assessment required.

This course provides students with a comprehensive overview of biological functions in the natural world. Genetics, natural selection, cell structure and division among other topics are covered during this course.
Attendance/participation points are recorded daily. Instructor approval of student registration required for enrollment in this course, limited space available.

## BIOLOGY - 1 credit, grades 10, 11, 12 End of Course assessment required.

This course is a comprehensive study of life from the single cell organism to the multi-cellular organism including man. In addition to studying the relationships of living organisms to one another, plant and animal classification, anatomy, microbiology, ecology and other related issues are explored. Dissection and lab work are a part of this college preparatory course. Attendance/participation points are recorded daily.

## SCIENCE ELECTIVES

Chemistry in the Community- 1 credit grades 11, 12 Chemistry in the Community teaches chemistry concepts on a "need to know" basis. Each unit starts with a significant chemistry-related concern or issue that serves as a framework for developing chemistry concepts. Each unit ends with an activity where the theme is revisited by applying the chemistry introduced in the unit.

## FORENSICS- 1 credit grades 10, 11, 12 Prerequisite: Physical Science and Biology.

This course is designed to give students an overview of Forensic Science and to see how a crime scene is investigated. The laboratory portion of the course is designed to give students hands-on experience to reinforce lecture material. A few of the topics learned during this course will include: DNA Analysis, Hair and Fingerprint Analysis, and Toxicology. Some coursework will involve mathematics. Attendance/Participation points are recorded daily.

HONORS ANATOMY - 1 credit grades 11, 12 Prerequisite: 1 credit Biology, Dual-Credit Prerequisite: 3. 0+ GPA, 2.0 or higher in Biology. This course recommended for those seeking a post-secondary degree in the Biology or Health Science related field.
This course will study the structure and functions of the various systems on the human body including how these systems interact with one another. Students interested in nursing, medicine, dentistry, or other health-related fields should consider enrolling in this course. Attendance/participation points are recorded daily.

HONORS PHYSICS - 1 credit, grades 11, 12. Prerequisite: 3.0 GPA in Algebra I, Physical Science and Geometry, This course is recommended for those seeking a post-secondary degree in Science or Engineering related fields. Offered in the odd number-years. Students will learn about the pursuit of science and scientific data, velocity, acceleration, gravity, Newton's Laws of Motion, vectors, momentum, energy, and more. Physics is a problem-solving course. The student must have proficient math skills. Attendance/participation points are recorded daily.

HONORS BIOLOGY - 1 credit grades 11, 12 Dual-Credit Prerequisite: $\mathbf{3 . 0} 0$ or higher accumulative GPA, 2.0 or higher in Biology. This course will be offered during the 2020/21 \& 2022/23 school years. This course recommended for those seeking a post-secondary degree in Science or Health Science related field.
This course further develops the key concepts of Biology. The student will be expected to complete a rigorous study of living organisms. The course will include laboratory activities in addition to textbook assignments. The subject material will range from the microscopic level to multi-cellular organisms. Historical material and economic aspects are presented throughout the course.

HONORS CHEMISTRY - 1 credit grades 11, 12, Dual-Credit Prerequisite: $\mathbf{3 . 0}$ or higher GPA in Algebra I and Physical Science, 4 hours college credit. This course will be offered during the 2019/20 \& 2021/22 school years. This course recommended for those seeking a post-secondary degree in the Health Science field. An introduction to general chemistry and elementary physical chemistry, including atomic theory and structure of the periodic table, reactions and properties of elements and compounds.

## FOREIGN LANGUAGE

***Many colleges and universities require a minimum of 2 years of foreign language study to qualify for admission. Spanish III \& IV is highly recommended if seeking a post-secondary degree at the University of Missouri Columbia.

SPANISH I-1 credit, grades 9, 10, 11, 12 - C average (2.0) and a desire to learn the language
Spanish One is a year long course designed to introduce students to the Spanish Language. The key emphasis of this course is placed on the study of Spanish vocabulary, grammar, and pronunciation. This class also introduces students to Spanish culture, including the geography, history, and literature of Spanish-speaking areas throughout the world. Attendance/participation points are recorded daily.

## SPANISH II-1 credit, grades 10, 11, 12, Prerequisite: Spanish I with a C average,

Spanish Two is a yearlong course designed to strengthen a students' understanding of the Spanish language and culture. Students will continue to expand their knowledge of Spanish vocabulary, grammar, and pronunciation. This course places more emphasis on Spanish grammar and usage, more advanced vocabulary, cultural awareness, reading and writing, and improved Spanish conversation. Attendance/participation points are recorded daily

HONORS SPANISH III - 1 credit, grades $11 \& 12$ Prerequisite: C or above in Spanish II, Spanish Three is a yearlong course designed to strengthen students' understanding of the Spanish language and culture. Students will continue to expand their knowledge of Spanish vocabulary, grammar and pronunciation. In addition, this course places an emphasis on Spanish reading and writing, the study of literature, cultural awareness and effective Spanish conversation. Attendance/participation points are recorded daily.

HONORS SPANISH IV - 1 credit, grade 12 Prerequisite: C or above in Spanish III, This course is a sequel to Spanish III. The students increase their working knowledge of Spanish through class discussion, group activities, writing and literature studies, and cultural studies. The grammar system is regularly reviewed throughout the course. Attendance/participation points are recorded daily.

## FINE ARTS

BAND - 1 credit, grades 9, 10, 11, 12, Prerequisite Instrumental music at Middle School level or with teacher approval This instrumental music course is a combined marching band and concert band program. The marching band performs at home football games and at a variety of parades, events, and competitions during the fall semester. The concert band performs at scheduled concerts, assemblies, and contests. Performances are required and take place outside of school hours and on weekends. Members of the concert band are encouraged to audition for conference and district band, as well as enter music contests. Students will have the option to participate in Solo and Small Ensemble events for MSHSAA music festivals. This course can be repeated through four years. Attendance/participation points are recorded daily.

## CHOIR - 1 credit, grades 9, 10, 11, 12

This course is a non-audition choir that is open to all who desire to sing. However, students are required to participate in several performances throughout the year. These performances include the Christmas Concert, Spring Concert, MSHSAA Festival, and Graduation. Some performances, such as participation in the MSHSAA Festival and Graduation may be scheduled on weekends. Students will be encouraged to participate in the conference choir and all-district choir auditions. Some students will be encouraged to present solo performances or small group ensembles for the MSHSAA music festival in the spring term. In addition to singing, students will be expected to learn how to follow a choral score, and will do some written work including quizzes and semester finals on basic music theory as related to sight-singing. Sight-Singing is the ability to look at a new piece of music not previously seen, heard, and sing that piece of music. This course can be repeated through four years. Attendance/participation points are recorded on a daily basis.

## GUITAR- 1 credit, grades 9, 10, 11, 12

This course is designed to provide a musical introduction to playing the acoustic guitar. Through in-class instruction, individual practice, and playing assignments, the student will advance in their understanding of music and guitar pedagogy. The daily objective of the course is to foster and promote musical growth through the playing of an instrument by the student. The student will also learn about instrument care and maintenance (i.e. changing strings, guitar upkeep, and proper care of the instrument). With experience, the student will be able to play a variety of chords common to contemporary music, read a "lead sheet" and play single line melodies. The overall objective is to provide the student with the introductory knowledge on the guitar to continue playing after the course has ended. This course may only be taken once and students should have little to no prior experience.

## ART I - 1 credit, grades 9, 10, 11, 12

This is a year long introductory course that includes basic drawing techniques as well as general terminology and art history. Art I is designed for students to utilize a variety of approaches and techniques available in art. This class provides experience in working with new media, both two and three dimensional. The students are to express their creativity while exhibiting responsibility for meeting deadlines for assigned projects. Student work may be submitted to various art shows throughout the community. Attendance/participation points are recorded on a daily basis.

## Art II - 1 credit, grades 9, 10, 11, 12 Prerequisite Art I.

This is a year long course primarily focuses on previously learned techniques from Art 1 and expands into various media, such as, painting in the second semester. Both two and three dimensional works will be assigned. Students are encouraged to express individuality while still being held accountable to meet requirements and deadlines. Student work may be submitted to various art shows throughout the community. Attendance/participation points are recorded

ADVANCED ART (ART III \& ART IV) - $\mathbf{1}$ credit, grades $\mathbf{1 1 \& 1 2}$ Prerequisite: Art I \& Art II. This course is recommended for those who have a genuine interest in the visual arts or are seeking a post-secondary degree in the Art field. This combined course allows students to continue to develop individual skills, explore multimedia approaches to creative problems and introduces portfolios and show expectations. Art III will consist of Art Appreciation and Art History. In both Art III \& Art IV students are required to complete a ceiling tile as part of his/her grade. The tile will be left in the classroom for display for years to come. Attendance/participation points are recorded daily. Art II and IV may be combined or separated due to class numbers.

## PRACTICAL ARTS

## C0MPUTER BUSINESS APPLICATIONS - ½ credit, grades 9, 10, 11, 12

This is a beginning course in computers beyond exploratory keyboarding. This course offers a review of Keyboarding techniques, Instruction in the fundamentals of MS Office. This includes word processing, spreadsheets and presentations, as well as a variety of types of business and personal communication options such as letters, reports, and tables. Attendance/participation points are recorded daily.

BUSINESS TECHNOLOGY - 1 credit, grades 10, 11, 12. Prerequisite: Computer Business Applications or $\mathbf{9 0 \%}$ proficiency on keyboarding test. This course is recommended for those seeking a post-secondary degree in Business, Graphic Design, or Journalism related fields. Business Technology is course 1 of 3 that is required to complete the Career Education Sequence of Courses for Business Management.
This computer course utilizes office technology to enhance computer application skills and communication. A variety of software applications and technologies are included in the instruction. Applications include the Microsoft Office Suite: word processing, spreadsheets, presentations, desktop publishing, database, and email. Adobe CS4 Photoshop is also introduced. An Employment/Careers Unit is also included. Attendance/participation points are recorded.

DESKTOP PUBLISHING/MULTIMEDIA - 1 credit, grades 10, 11, 12. Prerequisite: Computer Business Applications. This course is recommended for those seeking a post-secondary degree in Business, Graphic Design, or Journalism related fields. Desktop Publishing/Multimedia is course 2 of $\mathbf{3}$ that is required to complete the Career Education Sequence of Courses for Business Management.
First semester is designed to acquaint students with the proper procedures to create a variety of high-impact, professional-looking publications for business, organizations, school, or personal use by utilizing desktop publishing programs. Second semester will focus on teaching proper web page design techniques and how to manage a collection of web pages and other multimedia programs. Students will also assist with maintaining the school web site as well as the school newsletter and produce the graduation Rose Ceremony presentation. Attendance/participation points are recorded daily. (Business Technology recommended, but not required.)

DESKTOP PUBLISHING/YEARBOOK - 1 credit, grade 11, 12 Prerequisite: Business Technology or Desktop Publishing/Multimedia with an $85 \%$ minimum average. This course is recommended for those seeking a post-secondary degree in any Digital Design/Advertising/Public related fields.
Using Online Design, Adobe Photoshop and other advanced computer applications as well as digital cameras, students will directly apply their skills to produce the LHS yearbook, The Alamo. Students will also use marketing skills in selling ads and placing yearbook orders. Attendance/participation points are recorded daily.

ACCOUNTING -1 credit, grades $10,11,12$. This course is recommended for those seeking a post-secondary degree in any Business related fields. Accounting $I$ is course 3 of 3 that is required to complete the Career Education Sequence of Courses for Business Management. This course is designed to build a basic understanding of manual and automated accounting principles, concepts, and procedures. Activities include using the accounting equation, completing the accounting cycle, entering transactions to journals, posting to ledgers, preparing end-of-period statements and reports, managing payroll systems, completing banking activities, calculating taxes, and performing other related tasks. Personal calculators, pencil and eraser are required materials.
Attendance/participation points will be recorded daily.

## INTRODUCTION TO BUSINESS/ECONOMICS -- 1 credit, grade 11, 12 Recommended for those seeking a

 post-secondary degree in Business related fields.In this upper level course students will examine the way in which economics affects the lives of individuals and businesses. Focusing on the law of supply and demand, we will examine how businesses both react to and influence the decisions of individuals and the fiscal policies imposed by the government. This course will also examine economic systems and institutions, the history of economics, distribution and consumption of goods and services within the economy, including a general overview of American business, forms of business ownership, personnel management, labor-management relations, and public and human relations. Attendance/participation points are recorded daily.

## AGRICULTURAL SCIENCE \& INDUSTRIAL TECHNOLOGY

## AGRICULTURAL SCIENCE I-- 1 credit, grades 9-12

This is a beginning course in agriculture designed to introduce the student to the agricultural industry. Units of instruction in this course include leadership, agribusiness, animal system, food products and processing, plant system, and basic shop projects in metal and wood. All classes are project based and involved labs that correlate to the units. Attendance/participation points are recorded daily.

## AGRICULTURE COMMUNICATION/LEADERSHIP--1 credit, graded 10-12 Prerequisite; Ag Science I

This course is recommended for FFA members who seek better communication and leadership skills. In this class we will focus on ethics in the media, gather and analyze research, analyze agricultural issues, develop leadership skills, writing skills, oral communication and much more. Students who take this class will be required to complete a SAE record book and final project. FFA membership is required.

## Green House Management -- 1 credit, grades 10 - 12

This course focuses on a variety of subject matter involving production of greenhouse crops, basic landscaping principles, propagation techniques, floral design, and basic hydroponics. Attendance/participation points are recorded daily.

AGRICULTURE CONSTRUCTION --1 credit, grades 10-12 Prerequisite; Completed Ag Science I. This course may be repeated for Ag Construction II credit once.<br>This course focuses on SMAW, MIG, and TIG welding, metalworking practices and wood working skills. Other units of instruction will include electrical wiring and plumbing 1 quarter). There will be the addition of the plasma table and computer design in agriculture construction ( 1 quarter). This is a hands-on course. Special attention is paid to safety in the work environment. Students will construct a variety of shop projects, some of them being quite complex. Attendance/participation points are recorded daily.

*** Students enrolled in any of the Agricultural courses are encouraged and invited to join the Louisiana FFA Chapter. It is a requirement to be part of the National FFA Organization to have a type of agricultural class. Please contact Miss.O'Hara if you are interested in joining but do not have an agricultural course.***

## PHYSICAL EDUCATION AND HEALTH

## PHYSICAL EDUCATION -- 1 credit, grades 9, 10, 11, 12 Required class

This course is required for graduation. This course will combine fitness activities along with team and individual sports throughout the year. It will offer the student the opportunity to experience a number of activities that will help them develop their levels of fitness. Students must dress-out to meet participation requirements. This course may be repeated. Attendance/participation points will be recorded daily.

## PERSONAL FITNESS - 1 credit, grades 9, 10, 11, 12 Maximum class size 18

This co-ed course is a physical conditioning class involving a personalized program of weightlifting and cardio-vascular conditioning, and safety involved with each. Student athletes are encouraged to take this class. This course also has a leadership training component. This course may be repeated. Attendance/participation points will be recorded daily.

## HEALTH - $1 / 2$ credit, grade $9,10,11,12$ Required course,

This is a semester course that prepares individuals to understand the related aspects of health and wellness with special emphasis on nutrition, emotional health and physical health, as well as the relationship of individual health to the wellness of the whole family. Additionally, illness prevention and the basic care of the ill, including the elderly, the young child, and the person with disabilities, will be studied. Attendance/participation points are recorded daily.

## ELECTIVES

FRESHMEN SEMINAR - 1 credit, grades $9 \boldsymbol{\&} 10$ Freshmen seminar is a course designed to ease the transition to high school. The course will focus on improving the social, emotional aspects and 7 academic skills of high school students. This course is also intended to strengthen the relationships between students \& teachers as well as among students. Topics will include study skills, time management, relationship skills, academic skills and responsible decision making. Participation points will be recorded daily and will comprise a majority of the course guide. Placement in this course is based on academic standing.

## ACT PREP -- $\mathbf{1 / 2}$ credit, grades $11 \& 12$

This semester long course is designed to assist students in preparation for the ACT college admission examination. Course work focuses on specific strategies for improving student scores. Students work on the test subsections which include reading, language arts, mathematics, and science. This is a self-paced computer based course in which students work independently.

## STUDENT OUTREACH COMMUNITY SERVICE - ½ credit, grade 12

This program is designed for seniors who have completed their core curriculum who have a genuine interest in contributing to the Louisiana Community. It is an opportunity to make a connection at both a professional \& personal level using individual skills in a productive way. Students will be assigned a cooperating teacher/school secretary who they will volunteer with at the elementary/middle/high school one class period each day. Attendance, cooperation and professionalism are key components of this program. Students will be evaluated each term by their cooperating teacher and the program facilitator. Admittance into this program is based on demonstration of responsibility, attendance, courteousness, and academic achievement. Requirements for Louisiana Elementary School placement are based on students having access to their transportation.

## LHS FLEX WORK RELEASE PROGRAM - 1 credit, grade 11 \& 12 Prerequisite: Completed Flex Work Release application, Counselor, Principal, and parent approval, the student must have met most of their graduation requirements and will be eligible for a diploma if they attend school part of the day. FWR students must maintain a 95\% attendance rate and refrain from being expelled or suspended while participating in the program. FWR program is a semester-long course that provides students work experience through on-the-job training. Students attend school part of the day and work in the general public in the afternoon or evening. Students will work no more or less than 2 instructional hours per school day in a position that focuses on the career path stated in the student's ICAP developed in conjunction with the Louisiana R-II district. Any student accepted in the FWR program must show proof of employment at the beginning of the school year and every two weeks thereafter.

## MISSOURI COURSE ACCESS and VIRTUAL SCHOOL PROGRAM (MOCAP)

MOCAP was developed out of SB603 being signed into law. Its mission is to offer Missouri students equal (online) access to a wide range of high-quality courses, flexibility in scheduling, and interactive online learning that is neither time nor place dependent. The intended spirit of SB603 was to give students access to courses that are not offered or cannot be taken due to scheduling conflicts. At LAR2, our first choice is always to have students participate in our current curriculum course offerings. MOCAP (SB 603) obligates LAR2 to offer online credit advancement in school or out of class at LAR2's expense up to a full-time course load. Otherwise, it would be at the expense of the family.

LAR2 is defining MOCAP as:

- Providing courses we do not offer or conflict with student schedule
- Out-of-Class online learning
- Not over seven (7) courses per semester
- Meets MOCAP eligibility requirements

The District partners with LAUNCH, an online course provider, to bring a full catalog of quality courses to LAR2 students. If you have more questions about virtual schooling please contact Mr. Nick Heggemann at Louisiana High School.

## PIKE/LINCOLN TECHNICAL CENTER

Pike-Lincoln Technical Center is an educational institution designed to offer career, technical, and community education to residents of Pike, Lincoln and surrounding counties. Pike-Lincoln Technical Center offers top-quality instructional staff, a positive and professional environment, state-of-the-art equipment, and first-class facilities in which to learn.

The instructors and staff at Pike-Lincoln Tech Center work with advisory committees made up of area employers, community members and educational leaders to keep programs current and to align course curricula and technology with the needs of today's workforce. Pike-Lincoln Technical Center is accredited by the Missouri Department of Elementary and Secondary Education and is currently in the candidacy process of obtaining North Central Association Accreditation. Pike-Lincoln Technical Center has been designated as a High Schools That Work site along with only six other Technical Centers in the state.

The "Tech School " offers two-year technical education programs primarily to students in grades 11 and 12. These programs prepare a student for skilled employment following graduation from high school; however, students are also prepared to continue their studies at a vocational/technical college, a community college or a four-year university. The programs are three hours in length during the morning, and students attend regular classes at Louisiana High School in the afternoon hours. Fourth hour is used for travel time and lunch, so a student enrolled at the Technical School program is limited to six credits per year. The Louisiana R-ll School District pays the tuition and provides transportation. However, students must supply his/her required materials specific to the area of study he/she has chosen. Students are invited to apply during the spring semester of their sophomore year. This is a competitive application process, and not all students who wish to attend courses are chosen for the Tech School program. Applicants are evaluated on the basis of attendance, grades, school citizenship, and other factors.

In addition to the training and experience students receive through PLTC programs, they are able to take an additional credit in both mathematics and language arts. PLTC offers 1 credit (for a two-year program) in both Integrated Mathematics and Tech Communications.

INTEGRATED MATHEMATICS - Prerequisite: Accepted in a PLTC program. Credit: 1 high school credit for a two-year program. This course is designed to emphasize high level mathematics and problem-solving skills. The curriculum includes: basic math calculations, measurements, ratio and proportion, statistics, basic algebra and geometry/trigonometry.

TECHNICAL COMMUNICATIONS - Prerequisite: Accepted in a PLTC program. Students must be a senior. The student must have successfully completed the freshman and sophomore language arts requirement at the sending school. Juniors may be approved by the sending school counselor on a case-by-case basis. Credit: 1 high school credit. The focus of the curriculum is reading, writing, and communicating as it relates to the workplace and career field. Students will study and apply the principles, techniques, and skills needed in technical communication and will do so with clarity, conciseness, and accuracy. Emphasis will be placed on writing. Students will produce memos, letters, job applications, work orders, reflection papers, journals, informal and formal proposals, resumes, career plans, and presentations. Much of this work will be used to produce student portfolios. In addition, students will read novels and participate in lessons as they relate to the reading.

## PIKE LINCOLN TECHNICAL CENTER PROGRAMS INCLUDE:

## AUTO COLLISION TECHNOLOGY I \& II

- Repair and refinish vehicle bodies
- Remove dents
- Replace crumbled parts, surface preparation and painting
- Paint mixing and tinting
- Spot and MIG welding
- Frame-straightening
- Customized painting
- National average hourly wage: $\$ 16.21$


## AUTO MECHANICS TECHNOLOGY I \& II

- Engine performance
- Engine repair
- Steering and suspension
- Brake systems and service
- Transmissions
- Heating and Air Conditioning
- Wheel Alignment
- Use electronic analyzers, brake lathe, wheel alignment, hydraulic lifts
- Customer relations
- Hourly mid range salary in Missouri: \$8.51-\$14.79


## BUILDING TRADES TECHNOLOGY

- Build a house for someone in the community!
- Planning and layout
- Floor, wall and roofing framing
- Carpentry, construction wiring, exterior finishing
- Drywall, interior and exterior trim
- Roofing materials and procedures
- Bidding and estimating
- Blueprint reading
- Leadership training
- Hourly mid range salary in Missouri - $\$ 16.25$


## 3D MODELING I \& II

- Primitive Based Models
- 3D Max, Maya, Mudbox
- Sketchbook, MotionBuilder
- Photoshop
- 3D Visualization
- Surface mapping
- Animation techniques
- Image manipulation
- Design concepts
- Rendering and post-production
- Character animation


## COMPUTER TECHNOLOGY \& NETWORKING I \& II

- A.C. and D. C. electronics
- Semiconductors
- Electronic circuits
- Digital techniques
- Electronic test equipment
- Computer maintenance and repair
- Projects- repairing computers, TV's, VCR's stereo's, etc
- National Average hourly wage for electronic technicians - \$17.39


## DIESEL MECHANICS TECHNOLOGY I \& II

- Service and maintenance of medium and heavy-duty trucks
- Electronic diagnostic analyzers
- Precision measuring devices
- Wheel alignment equipment
- Hydraulic presses


## HEALTH SCIENCES I \& II

- Health care and career exploration
- Anatomy and Physiology
- Medical terminology
- Microbiology and Infection Control
- Clinical experiences in hospitals, nursing homes, dental and veterinary offices
- National average hourly salary for nurse aide - $\$ 8.59$


## LAW ENFORCEMENT

- Basic Police Science
- Criminal Justice
- Correctional Systems Exploration
- Explore Armed Forces Careers


## WELDING TECHNOLOGY I \& II

- Use welders, torches, grinders, plasma cutters
- Learn stick, MIG, and TIG welding
- Gas cutting, plasma cutting, brazing
- Inspections and testing of welds
- Business Operations
- National average hourly salary for welders - $\$ 13.40$


## LHS ALTERNATIVE EDUCATION PROGRAM

The purpose of the Louisiana Alternative School program is to offer a learning environment designed to help students whose life circumstances could result or have resulted in an interruption of education or the student dropping out of school. The alternative school consists of students who need a flexible program to accommodate their individual needs.
The Louisiana Alternative School program has a student-centered focus, which accommodates Louisiana Middle and High School students. The small, nurturing environment of the program affords each student the maximum amount of attention necessary to improve academic and social skills.
The Louisiana Alternative School program is a full-day program that provides a unique opportunity for students to earn a diploma in an alternative setting. Characteristics of the program include small class sizes, individualized instruction, and positive behavior development. Students are offered a full range of courses and academically related experiences which are similar to those offered in the traditional school setting. Additionally, the Louisiana Alternative School offers the Missouri Option program for students who qualify.
The Louisiana Alternative School features independent learning, credit recovery and individualized services. This program provides a truly unique opportunity for students to successfully complete their education. Admission into this program is based on academic standing \& subject to approval by the Louisiana R-II Alternative Education Advisory Board.

## MISSOURI OPTION PROGRAM

The Missouri Option Program is designed to target students who have the capability to complete the Missouri High School Graduation requirements, but, for a variety of reasons, lack the credits needed to graduate with their class and are at risk of leaving school without a high school diploma.

The program specifically targets students who are 17 years of age or older, who are at least one year behind their cohort group, or who are identified as being at risk for other significant reasons identified in the Louisiana R-II Missouri Option Program plan.

Students must complete a minimum of 15 hours of academic instruction per week and also be enrolled in other school supervised instructional activities that lead to a student being classified as a full-time student. Missouri Option students must pass all portions of the HiSET examination, all End of Course examinations appropriate for their grade level, pass the required Constitution and Civics tests, complete $1 / 2$ hour CPR training, and complete and pass Government, Health, and Personal Finance courses. In addition, students must participate in appropriate substantive counseling and life-skills training that will assist them with job readiness, financial management, and independent living skills.

Admission into this program is based on academic standing, TABE Test scores, and is subject to approval by the Louisiana R-II Alternative Education Advisory Board.

## MISSOURI COURSE ACCESS and VIRTUAL SCHOOL PROGRAM (MOCAP)

MOCAP was developed out of SB603 being signed into law. Its mission is to offer Missouri students equal (online) access to a wide range of high-quality courses, flexibility in scheduling, and interactive online learning that is neither time nor place dependent. The intended spirit of SB603 was to give students access to courses that are not offered or cannot be taken due to scheduling conflicts. At LAR2, our first choice is always to have students participate in our current curriculum course offerings. MOCAP (SB 603) obligates LAR2 to offer online credit advancement in school or out of class at LAR2's expense up to a full-time course load. Otherwise, it would be at the expense of the family.

LAR2 is defining MOCAP as:

- Providing courses we do not offer or conflict with student schedule
- Out-of-Class online learning
- Not over seven (7) courses per semester
- Meets MOCAP eligibility requirements

The District partners with LAUNCH, an online course provider, to bring a full catalog of quality courses to LAR2 students. If you have more questions about virtual schooling please contact Mr. Nick Heggemann at Louisiana High School.


[^0]:    *Denotes classes that are offered every other year see counselor for scheduling.
    **Teacher Recommendation needed to be scheduled into class.

