

LEXINGTON HIGH SCHOOL



CAREER & EDUCATIONAL PLANNING GUIDE

2020-2021

The Career & Educational Planning Guide is available online:

<https://www.lexington.k12.mo.us/>

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Welcome to Lexington High School

The decisions and choices you make as a student at Lexington High School will have a profound and long-lasting effect on your future. You are encouraged to make your own decisions and to be responsible for the consequences of them.

All students should develop a plan of courses according to their individual interests, abilities, and goals. Each spring the student will study and adjust the four-year plan, using input from parents, teachers, counselors and other resources. Parent involvement is critical to the success of the student's four-year plan. It is the responsibility of each student to read carefully all of the registration materials and requirements for graduation, and to be willing to live with the choices they make for the year. Parents should be aware of the requirements and recommendations for their student's chosen pathway.

We challenge you to set high standards for yourself, select courses and organizations which will advance you toward those goals, attend classes daily, and work hard to achieve your goals.

The Purpose of Career Pathways...

The Lexington School District is developing programs to assist all students in choosing and preparing for rewarding careers. A general high school program of studies is simply not enough preparation for today's colleges or for employment in today's complex workplace. Rather, the program of studies must be carefully planned and selected to help ensure that students may achieve their goals.

Choosing a Career Path...

As a part of the A+ Schools program, each student, working with parents and the high school counselor, will develop a course of study centered around one of the six broad career pathways. The course of study may reflect a general area of interest such as health services, or it may concentrate on a specific occupational goal such as becoming a respiratory therapist or a registered nurse. The following activities will enable students to achieve a designated career path:

- Lexington students have been involved in activities designed to expand awareness of a variety of careers.
- Activities to explore careers will continue throughout the next several years.
- By the ninth grade, a student will be able to choose a career path by considering personal interests, personalities and strengths. Then the student can develop a four-year plan by selecting the courses which are relevant to the variety of occupations in the career path chosen.

If Students Change Their Minds...

A career path choice is not a permanent commitment. As students mature and have new experiences, they will learn new things about themselves and may want to change career paths. If a student decides on a new career path, it should be discussed with the counselor, so the student's four-year plan may be adjusted according to the new career direction.

Benefits of Career Pathways for Students

- The need for long range planning is a significant factor not only for your success in high school but also for your future.
- Career pathways provide a plan for all students, based on their interests, abilities, talents, and desired levels of education. All pathways have equal dignity.
- Career pathways provide ALL students with areas of FOCUS, along with FLEXIBILITY and a VARIETY of ideas to pursue as they make decisions regarding course selection.
- Career pathways allow students to see the importance in their selected school courses. Therefore, students are more apt to do better in school.
- Career pathways help parents and other adults provide better assistance to students as they discuss careers and select courses.

What are Career Pathways?

- Career pathways are clusters of occupations grouped together because the people in them have similar interests and strengths.

- All pathways include a variety of occupations that require different levels of education and training.
- Career pathways help you identify a career focus without being locked into a specific occupation.

How can Career Pathways Help You?

- Deciding on a career pathway can help you prepare for your future.
- The intent is not for you to decide on a specific occupation for the rest of your life, but to select a career pathway into which you can begin directing your energies.
- Identifying a career pathway can help you in selecting school courses, activities, and part-time employment. It can help guide your participation in workplace readiness programs like job shadowing and career exploration.

Career Paths

The Missouri Department of Elementary and Secondary Education has set forth six major groups of occupations based on similar types of skills, knowledge and abilities. Students are being encouraged to match their interest with a career path and then take courses that will be beneficial in progressing toward a potential job field. It is not the district's intention to have each student decide on a specific job at this early age. We simply hope that this will provide students with a better focus on school, and increase the relevance of school to life after high school.



Arts and Communications

Occupations related to the humanities, and the performing, visual, literary and media arts. These may include architecture, creative writing, film, fine arts, radio, television and languages.



Business, Management, and Technology

Occupations related to the business environment such as sales, marketing, computer/information systems, finance, and management.



Health Services

Jobs related to the promotion of health and the treatment of disease. These include research, prevention, and treatment.



Human Services

Careers related to economic, political and social systems, including education, government, the military, religion, child care, and others.



Industrial and Engineering Technology

Occupations related to the technologies necessary to design, develop, and maintain physical systems. These include manufacturing, construction, and the related technologies.



Natural Resources

Jobs related to agriculture, the environment, and natural resources. Areas include agriculture sciences, earth sciences, fisheries, forestry, horticulture, and wildlife.

Career Paths are split into 16 Career Clusters. For more details go to <https://dese.mo.gov/college-career-readiness/career-education/career-clusters>.

LHS GRADUATION REQUIREMENTS

SUBJECT	Credit
ENGLISH	4
SOCIAL STUDIES	3
SCIENCE	3
MATH	3
PRACTICAL ART	1
FINE ART	1
PHYSICAL EDUCATION	1
SPEECH	.5
HEALTH	.5
PERSONAL FINANCE	.5
ELECTIVES	8.5
TOTAL	26

TYPICAL COLLEGE ADMISSIONS REQUIREMENTS

(Notice these differ from High School requirements)

Foreign Language: at least 2 units of the same language

English: 4 units

Math: 4 units (Algebra 1 and higher)

Social Studies: at least 3 units

Science: at least 3 units

Fine Art: 1 unit

*ACT/SAT scores & class rank: requirement varies between schools.

*The above credit requirements are minimums, and can be different for each college/university and for different majors. It is always best to take as many core classes as possible.

NCAA College Freshman Eligibility

To be eligible to compete in NCAA sports go to <http://www.ncaa.org/> for an official list of eligibility requirements.

National Association of Intercollegiate Athletics (NAIA)

For information about eligibility to play NAIA athletics, go to <https://play.mynaia.org/>.

WEIGHTED COURSES

Some courses offered at LHS are considered weighted due to their demanding nature. Students enrolled in these courses will receive .33 extra grade points, which can help to increase cumulative GPA and class rank.

SCHEDULE CHANGE POLICY

The class choices that students make each spring for the next school year are very important. After students pick classes, course offerings and the number of sections available are set to accommodate demand. Schedule changes can be difficult due to the fact that some courses are only offered a limited number of times each day. Schedule changes will only be done within the first three days of a new semester. Changes will only be made if there is room available in the class you want to go into. Schedule changes will only be granted if a student fills out a change-request form which requires teacher, parent, and counselor signatures.

Lexington R-V Course Descriptions

COMMUNICATION ARTS

Note: Any student that does not pass a Communication Arts course must repeat the course or complete the course through credit recovery before moving on to the next course.

Course Title: English I

Grade Level: 9

Prerequisite: None – required course for freshman

Length of course: 1 year = 1 credit

This course provides instruction in writing skills, prose, fiction, epic poetry and drama. Critical thinking, composition, vocabulary and grammar skills will be integrated.

Course Title: English II

Grade Level: 10

Prerequisite: English I

Length of course: 1 year = 1 credit

This course provides instruction in prose fiction, prose nonfiction, drama and poetry. Critical thinking, composition, vocabulary and grammar skills will be integrated. Writing will include research and an introduction to formal MLA formatted documentation. English II students will take the state end-of-course test.

Course Title: English II Honors – **Weighted course (Worth .33 more on grade points)**

Grade Level: 10

Prerequisite: B+ or higher in English I and teacher recommendation

Length of course: 1 year = 1 credit

English II Honors is a class designed for students interested in a more challenging course of study in preparation for college. Students will read, analyze, and evaluate various genres of literature; write informally and formally about literature; practice proper research skills and utilize formal MLA formatted documentation, learn and use correct grammar and mechanics; practice ACT skills. English II Honors students will take the state end-of-course test.

Course Title: English III

Grade Level: 11

Prerequisite: Successful completion of English I and English II

Length of course: 1 year = 1 credit

English III is a survey of American literature. In this course we will learn important communication and thinking skills (note-taking; summarizing; reading for comprehension; analyzing; evaluating and writing about literature; research; giving presentations; and participating in group discussions). We will apply these skills to American literature, examining a variety of both authors and genres/media (non-fiction, short story, novel, poem, essay, drama, movie, and radio). ACT Skills and independent reading are also a part of this course.

Course Title: English III Honors – **Weighted course (Worth .33 more on grade points)**

Grade Level: 11

Prerequisite: B+ or higher in English II Honors, or B+ or higher in English II and teacher recommendation

Length of course: 1 year = 1 credit

English III Honors is a survey of American literature with an ACT preparatory component. We will analyze and evaluate a variety of works from American literature as well as American pop culture. Student will become adept thinkers, readers, researchers, and writers. We will also practice intensively the English and Reading sections of the ACT. Independent reading is an expectation for this course.

Course Title: English IV

Grade Level: 12

Prerequisite: English I, II, and III

Length of course: 1 year = 1 credit

In this course, we will study the major authors and periods of British literature from its beginnings with Anglo-Saxon literature through 20th century British and Commonwealth literature. We will examine all the genres of British literature, including the novel, the essay, the short story, the poem and the play. We will learn how to analyze and evaluate literature as well as how to write literary essays. This course includes a mandatory senior project. ACT skills are taught in depth in the course. Independent reading is an expectation for this course.

Course Title: English IV Honors – **Weighted course (Worth .33 more on grade points)**

Grade Level: 12

Prerequisite: English I, II, III & teacher approval, or B+ or higher in English III Honors and teacher recommendation

Length of course: 1 year = 1 credit

This course is more advanced than English IV and is designed for the college-bound student. English IV Honors is an introduction to the basic organizational forms of the essay. It requires students to write in different persuasive settings, including a variety of rhetorical modes. Students are introduced to college writing utilizing the process method of drafting and revising essays that are collected in a portfolio. English IV Honors students also do extensive reading, critical analysis, and intensive research writing according to MLA standards. During the second semester English IV Honors continues the emphasis upon the principles of expository writing and research established first semester. Students will write clear, logical, well-supported essays and develop skills for synthesizing primary and secondary texts in their research papers. In doing so, students will examine the elements of the genres of literature. Selected literary works are used as a basis for student writing, discussions, activities, workshops, and lectures. We will practice intensively the English and Reading sections of the ACT. This course includes a mandatory senior project. Independent reading is an expectation for this course.

Course Title: Speech I

Grade Level: 11-12

Prerequisite: None

Length of course: 1 semester = .5 credit

This is a required course in which all students will deliver original informative, demonstrative and persuasive speeches. Students will also deliver introductions and participate in job interviews.

Students will study the communication process, nonverbal communication, interpersonal communications, and informative interviews.

Successful completion of Speech I is required for graduation.

Course Title: Debate/Film Analysis

Grade Level: 11-12

Prerequisite: None

Length of course: 1 semester = .5 credit

Students will research and present group discussions, Public Forum debates, and

Lincoln-Douglas debates. Also included in the course will be units on film analysis and film history.

SOCIAL STUDIES

Note: Any student that does not pass a Social Studies course must repeat the course or complete the course through credit recovery before moving on to the next course.

Course Title: American History

Grade Level: 9

Prerequisite: None – required course for freshman

Length of course: 1 year = 1 credit

American History is designed to provide students with a background in the history of the United States in its relationships with the countries of the world as well as the domestic scene. The course begins with the Reconstruction period and takes the student into the current period of time.

Course Title: World History

Grade Level: 10

Prerequisite: None – required course for sophomores

Length of course: 1 year = 1 credit

The course will focus on the history of the world. The history starts with the ancient peoples and continues into the modern worlds. The course will explore geographic concepts and how they influenced historical events. North America, Latin America, Africa, and Asia will be the regions of study.

Course Title: American Government/Economics

Grade Level: 11

Prerequisite: None – required course for juniors

Length of course: 1 year = 1 credit

This is a course in the history, principle, and other operations of the United States government. Units of concern include the Constitution and democratic principles, the Presidency, Congress, the national judiciary, political parties, and state government. American Government students will take the state end-of-course test. Students must also take and pass the Missouri & US Constitution Tests in order to pass this course and graduate from Lexington High School.

SOCIAL STUDIES ELECTIVES

(Not counted towards Social Studies Graduation Requirements)

Course Title: Geography

Grade Level: 10-12

Prerequisite: None

Length of course: 1 semester = .5 credit

The LHS Geography program stresses the major elements of geographical study and analysis (such as location, place, movement, and regions) and their relationships to changes in society and environment. Activities will include map interpretation and identification as well as description and comparison of geographical regions.

Course Title: Current Issues

Grade Level: 10-12

Prerequisite: None

Length of course: 1 semester = .5 credit

Current Issues provides students with an opportunity for in-depth studies of current issues on a local, national, and global level. Present-day news stories will determine topics with constant reference to weekly magazines and daily newspapers. Students will also investigate the geographic, social, economic, political, and cultural backgrounds of current issues.

Course Title: Psychology

Grade Level: 11-12

Prerequisite: American Government, World History

Length of course: 1 semester = .5 credit

This course will study human relations and interactions as well as the individual. The study of the development of personalities, mental hygiene, and testing will be an objective of this class. A new scientific vocabulary will become necessary in the class. This class is an upper level junior and senior class.

Course Title: Sociology

Grade Level: 11-12

Prerequisite: None

Length of course: 1 semester = .5 credit

Students in Sociology will gain a sociological perspective enabling them to view their lives within a larger social and historical context. Sociology encompasses the science of society, social institutions, and social relationships. The development, structure, and functions of human groups and changes in the way they interact will be the main focuses of the course.

SCIENCE

Note: Any student that does not pass a Science course must repeat the course or complete the course through credit recovery before moving on to the next course.

Course Title: Physical Science

Grade Level: 9

Prerequisite: None

Length of course: 1 year = 1 credit

Physical Science is a two-semester course designed to serve as a foundation for other high school courses, especially chemistry. During this course we will cover several well know scientist, the history of atomic structure, the periodic table in terms of basic chemical symbols, patterns, trends and isotopes, composition and classification of matter, chemical bonding, Newton's 3 laws of motion, forces, work, power, momentum, conservation and conversions of energy, and simple machines. Because experimentation is the basis of science, laboratory demonstrations and investigations are an integral part of this course. A basic function calculator and a single subject notebook are required.

Course Title: Biology I

Grade Level: 10

Prerequisite: None

Length of course: 1 year = 1 credit

Biology will focus on the study of life science. Studies will include cell structures, genetics, adaptations, ecology, and biochemistry. Biology I students will take the state end-of-course.

Course Title: Biology II

Grade Level: 11-12

Prerequisite: Biology I

Length of course: 1 year = 1 credit

This course is an advanced study of the topics covered in Biology I. Biology II introduces ecological principles and environmental problems. Studies will include approaches to solution of these problems. This course will also introduce anatomy and physiology relationships to the following human body systems: skeletal, muscular, nervous, and endocrine. Lastly this course will introduce zoology, classification and origin of species.

Course Title: Environmental Science

Grade Level: 11-12

Prerequisite: Biology I

Length of Course: 1 year = 1 credit

Earth and its environments is the study of the environment that includes the physical, biological, and social sciences. (Including but not limited to physics, chemistry, ecology, mineralogy, oceanology, soil science, geology, atmospheric science, and geography). An emphasis will be placed on the history of human impacts such as evaluating energy systems, pollution control

and mitigation, natural resource management and the major problems threatening the global environment today.

Course Title: Chemistry I

Grade Level: 11-12

Prerequisite: Biology I

Length of course: 1 year = 1 credit

Chemistry is a two-semester course designed to provide a basic understanding for an entry level college chemistry course. The second semester builds from skills and concepts learned in the previous semester. During this course we will cover atomic and molecular structure, chemical nomenclature, stoichiometry, gases, solutions, acids and bases, reaction rates, chemical equilibrium, and the periodic table including but not limited to patterns and trends. Students will also learn to solve real-world chemistry problems using previously learned math skills, logic and critical thinking. A good understanding of algebraic equations is essential to be successful in this class. A basic function calculator is required.

Course Title: Chemistry II – **Weighted Course (Worth .33 more on grade points)**

Grade Level: 11-12

Prerequisite: Biology I & Chemistry I

Length of course: 1 year = 1 credit

Chemistry II is a two-semester course designed to provide a basic understanding for an entry level college Chemistry I & II course. This class builds from skills and concepts learned in the Chemistry I. During this course we will cover Stoichiometry, behavior of gases, preparing solutions, Thermodynamics, reaction rates, equilibrium, oxidation-reduction reactions, and acid-base theories. Students will also learn to solve real-world chemistry problems using previously learned math skills, logic and critical thinking. A good understanding of mole ratios and algebraic equations is essential to be successful in this class. A basic function calculator is required.

Course Title: Physics – **Weighted Course (Worth .33 more on grade points)**

Grade Level: 11-12

Prerequisite: B average or higher in Biology I and Chemistry

Length of course: 1 year = 1 credit

Physics is a two-semester course designed to provide a basic understanding of a college physics course. In this course, we will build from concepts learned in Physical Science. We will be covering how different types of energy can be transferred, stored and conserved. We will also cover properties of motion, forces, matter, and mechanical systems. Finally, we will cover information about our solar system. A background in mathematics, including Algebra I and Algebra II, will be needed for this course. You will also need a scientific calculator for this course.

MATHEMATICS

Note: Any student that does not pass a Mathematics course must repeat the course or complete the course through credit recovery before moving on to the next course.

Course Title: Algebra 1 Concepts

Grade Level: 9

Prerequisite: Below Basic on the math portion of grade 8 MAP test and/or teacher recommendation

Length of course: 1 year = 1 credit

The class will stress the development of a precise vocabulary and cover all operations with real numbers, all operations with polynomials, factoring of polynomials, as well as solving linear and quadratic equations. Practice and problem solving strategies as related to various mathematical topics will be emphasized.

Course Title: Algebra 1 Concepts Lab

Grade Level: 9

Prerequisite: Concurrently taking Algebra 1 Concepts

Length of course: 1 year = 1 credit

The lab provides time for extra math practice and to re-teach problem solving strategies.

Course Title: Algebra 1

Grade Level: 9

Prerequisite: None

Length of course: 1 year = 1 credit

This course is designed to cover the first course in Algebra in one year. The class will stress the development of a precise vocabulary and cover all operations with real numbers, all operations with polynomials, factoring of polynomials, as well as solving linear and quadratic equations. Practice and problem solving strategies as related to various mathematical topics will be emphasized. Upon successful completion of Algebra 1 the student will have the skills essential for the study of higher mathematics. Algebra 1 students will take the state end-of-course test.

Course Title: Algebra 1 Honors

Grade Level: 9

Prerequisite: Advanced on the math portion of grade 8 MAP test and/or teacher recommendation

Length of course: 1 year = 1 credit

This course is accelerated. Designed for the serious math student interested in developing a basic understanding of the language and structure of Algebra, the class will cover all operations with real numbers, all operations with polynomials, factoring of polynomials, as well as solving linear and quadratic equations. Problem solving strategies and applications as related to various mathematical topics will be emphasized. Upon successful completion of Honors Algebra 1 the student will have the skills essential for the study of higher mathematics. Algebra 1 Honors students will take the state end-of-course test.

Course Title: Geometry

Grade Level: 9 & 10

Prerequisite: Algebra I

Length of Course: 1 year = 1 credit

Geometry is designed so a student will gain an understanding of the structure of a mathematical system. Particular attention will be given to enhance reasoning ability, a logical approach to solving problems, and the concept of a proof. This course will allow a student to increase their deductive and inductive reasoning skills, algebra skills, explore and apply various geometric facts and formulas, and will be more able to think creatively.

Course Title: Algebra 2

Grade Level: 10 & 11

Prerequisite: Geometry

Length of course: 1 year = 1 credit

This course covers a variety of functions (linear, quadratic, polynomial, and rational). Students learn to graph, compare and manipulate various functions in order to solve problems. Students also study properties and applications of exponents and exponential functions. Students develop rigorous problem solving skills, logical reasoning and mathematical communication skills required for success in higher math courses. Algebra 2 students will take the state end-of-course test if they took Algebra 1 in 8th grade.

Course Title: Math Analysis & Trigonometry - **Weighted Course (Worth .33 more on grade points)**

Grade Level: 11 & 12

Prerequisite: Algebra II

Length of course: 1 year = 1 credit

Math analysis is an in-depth study of functions, analytic geometry, sequence and series, combination and permutation, and includes an introduction to calculus. Trigonometry involves the study of triangles, circular functions, inverse functions, vectors and complex numbers with an emphasis on applications. This is a challenging upper-level math course for juniors and seniors.

Course Title: Calculus – **Weighted Course (Worth .33 more on grade points)**

Grade Level: 12

Prerequisite: Algebra II and Math Analysis & Trigonometry

Length of Course: 1 year = 1 credit

This course introduces limits, differentiation and integration of functions. Students will find and evaluate finite and infinite limits graphically, numerically and analytically. They will find derivatives using a variety of methods including the Chain Rule and Implicit Differentiation. They will use the First Derivative Test and the Second Derivative Test to analyze and sketch functions. Subsequently, students will find anti-derivatives using a variety of methods including substitution. They will evaluate integrals using methods including numerical integration. They will understand and apply Riemann sums, definite integrals and the Fundamental Theorem of Calculus.

PRACTICAL ARTS

Business

Course Title: Computer Applications

Grade Level: 9

Prerequisites: None

Length of course: 1 semester = .5 credit

This course is meant as an introductory computer class for the student to learn fundamentals of computers including spreadsheets, word processing, database, desktop publishing, basic web design, Microsoft Office and PowerPoint. This class is a prerequisite for the following business classes.

Course Title: Personal Finance

Grade Level: 11-12

Prerequisites: None

Length of course: 1 semester = .5 credit

By wisely managing their money, students become citizens that are more responsible. A thorough understanding of financial concepts, with practical application through activities and projects, will enable students to leave this course with applicable, useful skills for life. This course surveys the basic personal financial needs of most individuals and emphasizes the basics of budgeting, saving, checking, investments, credit, the wise use of insurance, and paying and preparing income tax returns. Students taking this course will learn to better prepare for their financial futures.

Course Title: Yearbook love

Grade Level: 11-12

Prerequisite: B average in all English classes, word processor proficient, recommendation from teacher

Length of course: 1 year = 1 credit

This is a lab course in which the school's yearbook is produced. Students need strong writing, communication, and organizational skills. This course requires work responsibilities beyond the school day in the form of photography assignments, interviews, and selling ads. As much of the yearbook is composed on the computer, a working knowledge of word processing and desktop publishing is helpful. Students are expected to make a two-year commitment to the staff as juniors.

Marketing

Course Title: Marketing I (Fundamentals of Marketing)

Grade Level: 10-12

Prerequisites: None

Length of course: 1 year = 1 credit

This course is for students interesting in careers in retail, business administration, wholesale and service occupations. Marketing is all of the activities involved in moving goods and services from the producer to the consumer. Instruction includes economics, salesmanship, supply and demand, and human relations, and how these factors interact in a free enterprise system. Students taking marketing classes have the opportunity to participate in DECA.

Course Title: Sports & Entertainment Marketing

Grade Level: 10-12

Prerequisites: None

Length of course: 1 semester = .5 credit

Sports and Entertainment Marketing is a unique and innovative course designed for students with an interest in the sports and entertainment industry. This course stresses the utilization of fundamental marketing concepts and will include an orientation to the sports and entertainment industry. Marketing strategies along with topics in sponsorship, pricing, marketing research, endorsements, and promotions will be part of this course. The course will develop critical thinking, decision making and communication skills through real world applications. Students will be prepared to handle specific tasks associated with either industry. Students taking marketing classes have the opportunity to participate in DECA.

Course Title: Entrepreneurship

Grade Level: 10-12

Prerequisites: None

Length of course: 1 semester = .5 credit

An introductory course designed to familiarize students with the world of small business, and analyze the personal strengths and weaknesses of students relative to launching a career in entrepreneurship. Attention is given to planning, financing, starting and managing a small business.

Course Title: Marketing Internship

Grade Level: 11 & 12

Prerequisites: Students must take Marketing at the same time

Length of course: 1 year = 1 credit

Marketing Internship is a program where students apply what they have learned in the Marketing classroom to an internship or job. Students must already have the internship or job prior to starting the internship. Students are allowed to leave and go to work the last two class periods of the school day.

Agriculture

(Three Agriculture science based classes can substitute for one high school science credit.)

Course Title: Agriculture Science I

Grade Level: 9-12

Prerequisites: None

Length of course: 1 year = 1 credit

Ag Science I is a course designed for instruction in animal science, agricultural mechanics, career, leadership, and supervised agriculture experience. Units include agribusiness, food

science, animal reproduction, animal nutrition, and large and small animal production. Students will have the opportunity to join FFA and participate in all Lexington FFA Chapter activities.

Course Title: Agriculture Science II

Grade Level: 10-12

Prerequisites: Agriculture Science I

Length of course: 1 year = 1 credit

Ag Science II is a course designed for instruction in plant and crop science, soils, and supervised agricultural experiences. Students will have the opportunity to join or continue membership in FFA and participate in FFA Chapter activities.

Course Title: Conservation & Fish and Wildlife Management

Grade level: 11-12

Prerequisites: Agriculture Science I

Length of course: 1 year = 1 credit

Course study includes: Careers; History of Fish & Wildlife Management; Fish and Wildlife Values; Management & Conservation of Natural Resources; Soils; Natural Resources; Outdoor Recreation Resources; Energy and Mineral Resources; Concepts and Issues of Genetically Modified Organisms; Conservation Philosophy; Habitat Management; Animal Life histories; and Wildlife Protection.

Course Title: Agriculture Construction

Grade Level: 11-12

Prerequisites: Agriculture Science I

Length of course: 1 semester = .5 credit

This course is designed to develop skills in welding, cutting, and project construction. Students will learn arc welding, MIG welding, oxyacetylene cutting and welding, plasma arc cutting, and project plan reading skills. The majority of class time will be spent on hands-on exercises and individual or group project construction. This class will be limited to 10 students. (Does not count toward 3 Ag=1 Science)

Course Title: Agriculture Management

Grade Level: 11-12

Prerequisites: Agriculture Science I

Length of course: 1 semester = .5 credit

Units include human relations, verbal and written communications, microcomputers in agriculture, economic principles, farm planning, agribusiness functions, and business management (Does not count toward 3 Ag=1 Science)

Course Title: Agricultural Economics

Grade Level: 11-12

Prerequisites: Agriculture Science I

Length of course: 1 semester = .5 credit

This course combines farm and agribusiness management content based on agricultural economic principles. Computer applications are included to enhance student understanding and utilization of current technology. (Does not count toward 3 Ag=1 Science)

Course Title: Greenhouse

Grade Level: 11-12

Prerequisites: Agriculture Science I

Length of course: 1 semester = .5 credit

Students will learn about the greenhouse industry: types of structures, how to manage a greenhouse business, and how to grow plants in a greenhouse. This class will be limited to 10 students.

Course Title: Floriculture

Grade Level: 11-12

Prerequisites: Agriculture Science I

Length of course: 1 semester = .5 credit

This course includes the production, arrangement, and retailing of flowers. Included are fresh, silk, and dried flowers used to make corsages, wedding bouquets, table flower arrangements, and seasonal holiday decorations.

Course Title: Advanced Crops

Grade Level: 11-12

Prerequisites: Agriculture Science I

Length of course: 1 semester = .5 credit

Studies include growing systems, plant selection, production practices, harvesting and storing, marketing, fertilization, soils, conservation, chemicals, integrated pest management, water quality and biotechnology.

Course Title: Advanced Livestock

Grade Level: 11-12

Prerequisites: Agriculture Science I

Length of course: 1 semester = .5 credit

This course includes studies in animal production, management, marketing, nutrition, breeding, production records, selection, animal health, waste management, and biotechnology. Artificial insemination of beef and swine as well as embryo transfer will be covered.

Course Title: Veterinary Science

Grade Level: 11-12

Prerequisites: Agriculture Science I

Length of course: 1 semester = .5 credit

This course includes studies in animal care, management, breeding, selection, animal health, waste management, and biotechnology, proper veterinary clinic procedures. Animals studied will include animals commonly cared for in a veterinary facility.

Course Title: SAE (Supervised Agriculture Experience)

Grade Level: 12

Prerequisites: Agriculture Science I

Length of course: 1 year = 1 credit

This course provides for the enrollment of students that are released on school time to complete a cooperative occupational experience in an approved training station in agriculture. A signed training agreement and training plan must be completed for each student.

Family & Consumer Sciences

Course Title: Hospitality & Tourism

Grade Level: 10-12

Prerequisite: None

Length of Course: 1 semester = .5 credit

This course introduces students to one of the world's largest and fastest growing industries- the hospitality and tourism industry. Content includes information about the numerous segments of the hospitality industry, the many different areas of career opportunities and career paths. The interrelated nature of hospitality, travel and tourism are explored. Students are introduced to the different segments of the industry such as lodging and cruising, food and beverage service and management, club management, attractions and recreation, and assemblies and event management. It is the foundational course for advanced study in marketing, hospitality, culinary or tourism.

Course Title: Global Foods

Grade Level: 10-12

Prerequisite: None

Length of Course: 1 semester = .5 credit

This course explores the cultural impact on our food choices and dietary behaviors. Foods from across the continents will be compared and contrasted in relation to cultural influences, food production, marketing, preparation and consumption. Food choices that promote healthy lifestyles and environmental conservation will be emphasized. Food preparation labs will stress safety, sanitation and efficiency. This course will provide students with an opportunity to become more knowledgeable and gain a better understanding about the diverse cultures present within our own society and throughout the world. Students will study the cuisines of different cultures. As well as the factors that influence a culture's choices.

Course Title: Foods I & II

Grade Level: 9-12

Prerequisite: None

Length of Course: 1 semester each = .5 credit

This course is designed to introduce the student to the basic principles of food preparation, including: understanding of food and kitchen safety and sanitation practices, basics of nutrition and healthy menus, chemistry of foods and cooking processes, food costs and budgeting, food

identification, basic culinary terminology and techniques, proper use of kitchen tools and equipment, elements of food preservation, food quality checkpoints during production and government regulations affecting food and the consumer. Food labs and demonstrations play a significant role in the course.

Course Title: Nutrition & Wellness

Grade Level: 9-12

Prerequisite: None

Length of Course: 1 semester = .5 credit

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

Course Title: Child Development I & II

Grade Level: 9-12

Prerequisite: None

Length of Course: 1 semester each = .5 credit

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

Course Title: Family Living & Interpersonal Relationships

Grade Level: 9-12

Prerequisite: None

Length of Course: 1 semester = .5 credit

This instructional program prepares individuals to understand the nature, function, and significance of human relationships within the family/individual units. It includes instruction in the concepts and principles related to various family living conditions, including abuse prevention; the establishment and maintenance of relationships; the preparation for marriage, parenthood, and family life; and the socialization and developmental needs of individuals.

Course Title: Housing & Interior Design

Grade Level: 9-12

Prerequisite: None

Length of Course: 1 semester = .5 credit

Housing and Interior Design focuses on personal and family housing needs, options for meeting those needs, and the impact of the housing industry on the economy. Attention is given to student competencies addressing housing needs, trends, finance, construction and artful principles as applied to housing. Other topics emphasize competencies related to management of furnishings and appliances, conservation, green design, home technology, and career opportunities in housing. Students achieving these competencies will develop an appreciation

for housing and interior design. Upon successful completion of the course, the student will be able to make informed decisions in securing and maintaining a personal or family home.

Course Title: Fashion Design

Grade Level: 9-12

Prerequisite: None

Length of Course: 1 semester = .5 credit

Fashion Design explains the qualities and skills necessary to become a fashion designer. You'll learn about the many related career opportunities available besides that of fashion design and gain an inside look into today's fashion business. Students will learn how becoming a fashion designer involves many core related principles to completely understand the many facets of the fashion business. This course is ideal for students, seamstresses and anyone interested in the fashion business and design quality. Since a fashion designer wears many hats, you will gain knowledge about everything from haute couture to budget clothing and that design is about performing research, knowledge of fabric, coordinating color and texture and monitoring quality and fit.

Course Title: Leadership & Service

Grade Level: 9-12

Prerequisite: None

Length of Course: 1 semester = .5 credit

Through a series of lectures, guided interaction, and group exercises, students will explore the principles of relational leadership and learn to develop individual and group leadership skills to impact their lives and their communities. Content areas include decision-making, goal setting, effective communication, servant leadership, organization and time management skills, and concrete strategies to implement change.

FINE ARTS

Course Title: Music Appreciation

Grade Level: 9-12

Prerequisite: None

Length of Course: 1 year = 1 credit

Music Appreciation is a non-performance course designed to enrich the student's understanding of the importance of music in their own life and within the context of today's society and culture throughout the world. Through music history, theory, and listening activities, the student will be exposed to and study a broad range of musical styles and genres. One formal written report will be required each quarter. This class will help one understand and respect music in its different forms around the world. It will also help them understand the importance of music in their lives.

Course Title: Band

Grade Level: 9-12

Prerequisite: Successful completion of 5th, 6th, 7th and 8th grade band or permission of director

Length of course: 1 year = 1 credit

Band is an auditioned ensemble open to wind, percussion, drum major, twirlers and flag corps members. The ensemble rehearses daily and performs at all home football games, various marching competitions and parades. A mandatory band camp is held during the summer in order to prepare for fall activities. Members of the Marching Band also perform at the annual Christmas concert and all pep assemblies. During second semester band members perform in All-District Band, MRVC Conference Band, State Music Festivals, commencement exercises and various concerts throughout the semester. Students are also encouraged to participate in MRVC Conference Band and district/state solos and ensembles. Before and/or after school rehearsals and performances are required and part of the grade. Members must pay an activity fee to participate.

Course Title: Piano

Grade Level: 9-12

Prerequisite: None

Length of course: 1 year = 1 credit

In this course students will learn to play the piano. Students will gain a solid foundation in basic two-hand piano skills. Learn music theory, including how to read notes, rhythms, and musical symbols on a staff.

Course Title: Concert Choir

Grade Level: 9-12

Prerequisite: None

Length of course: 1 year = 1 credit

Concert Choir is an auditioned ensemble in which students with healthy singing techniques are accepted. The ensemble concentrates on developing choral tone, diction, exploring musical styles, and increasing sight reading skills. This group performs in the fall, Christmas, winter, and spring concerts as well as participates in the District Music Festival.

Course Title: Theatre

Grade Level: 9-12

Prerequisite: none

Length of course: 1 year = 1 credit

Students will gain respect for the art of theatre through developing their skills as actors and audience members. Each student will develop the skills of an actor through movement, vocal exercises, and character development. Students will also evaluate the risk that an artist must take and therefore gain an appreciation and respect for theatre thus becoming a better audience member as well. Students will study the master teachers and different method acting processes, script analysis, the role of a director, theatre history, and professional careers in theatre.

Course Title: Advanced Theatre

Grade Level: 10-12

Prerequisite: C or higher in Theatre

Length of course: 1 year = 1 credit

Students will organize themselves into a theatre company, read plays, and select a suitable play for the class to perform; perform a memorized monologue audition; perform a role in the one-act play; and perform a technical job for the production. Students will perform their one-act play on a selected date for an audience and will evaluate their own production.

Course Title: Oral Interpretation

Grade Level: 9-12

Prerequisite: None

Length of course: 1 year = 1 credit

This course involves performing speech tournament entries -- duet acting, dramatic or humorous interpretation, prose or poetry reading, storytelling, extemporaneous speaking, original oratory, radio speaking, and reader's theatre. Students are able to practice each event in class and be evaluated by the teacher and the students' peers. Students must attend at least two tournaments to receive full credit.. (.5 Speech // .5 Fine Art credit is given)

Course Title: Technical Theatre

Grade Level: 9-12

Prerequisite: None

Length of course: 1 year = 1 credit

In this course students will learn the basic techniques, principles and practices of technical design for the stage. Included units of study are: design elements, play analysis (with an emphasis on design), set construction, lighting techniques, costuming, properties, and makeup. Students will assist with the annual musical and play productions.

Course Title: Art I

Grade Level: 9-12

Prerequisite: none

Length of course: 1 year = 1 credit

Art I includes a study of art history, art criticism, and aesthetics through studio exploration of two and three dimensional fine art, craft media, and techniques. Primary focus during this beginning stage program will consist of objectives which will cover elements and principles, composition, color, perspective, aesthetic scanning, art history, exploration within various realms, and employment within the arts.

Course Title: Advanced Art

Grade Level: 10-12

Prerequisite: Art I

Length of course: 1 year = 1 credit

Advanced Art consists of an expanded study of art history, art criticism and aesthetics through studio exploration of fine art and craft media and techniques. This two-semester course will assist students in acquiring an advanced knowledge and understanding of art and will encourage the development of personal ideas, creative sensibility, aesthetic and technical abilities.

FOREIGN LANGUAGE

Course Title: Spanish I

Grade Level: 9-12

Prerequisite: Recommended C average in Language Arts

Length of course: 1 year = 1 credit

In a first-level course, students learn basic vocabulary, fundamental structures, and cultural concepts which enable them to communicate orally and in writing at a novice level in Spanish. The first year of Spanish is designed to introduce students to the linguistic and cultural structures necessary for basic communication in Spanish. This course is conducted mostly in English; however, Spanish is often implemented in order to strengthen the skills of the student

Course Title: Spanish II

Grade Level: 10-12

Prerequisite: Spanish I (C or better), Recommended C average in Language Arts

Length of course: 1 year = 1 credit

In Spanish II students will build upon prior knowledge and continue to develop vocabulary, structures and cultural concepts which will enable them to communicate orally and in writing at an advanced- novice level in their target language. The second year of Spanish is designed to enhance the student's oral and written performance in Spanish. Students will demonstrate the ability to converse, write, and comprehend structures in Spanish. This class will be taught in English; however, Spanish will often be implemented to strengthen the skill of the student.

Course Title: Spanish III **Weighted Course (Worth .33 more on grade points)**

Grade Level: 11-12

Prerequisite: Spanish II (B or better), Recommended B average in Language Arts

Length of course: 1 year = 1 credit

This course will build upon principles covered in Spanish I and II in order to help students become more fluent and knowledgeable of the Spanish language. Students in Spanish III continue to develop skills in speaking, listening, and writing. At this level, there is increased emphasis on vocabulary development, oral proficiency, expression in the past tenses and various other tenses. The course moves at a quick pace and new material will be presented most class periods. Students continue to expand knowledge of the culture of Spanish-speaking peoples.

Course Title: SPAN 2601 - College Intermediate Spanish I - **Weighted Course (Worth .33 more on grade points)**

Grade Level: 11-12

Prerequisite: Spanish II (B or better), Recommended B average in Language Arts

Length of Course: 1 semester = .5 credit (3 college credit hours)

Spanish 2601 course is a three-credit hour college level course for students who have completed 2 successful years of Spanish as a foreign language. This course is designed to develop the language and academic skills necessary for achieving an intermediate level of communication in Spanish. Speaking, writing, reading and listening skills will be developed. The

course moves at a quick pace and new material will be presented most class periods. Students in this course must have an “acceptable proficiency as demonstrated by adequate high school course work in Spanish level 2,” as stated in the University catalog, or have successfully completed Spanish 1602.

Course Title: SPAN 2602 - College Intermediate Spanish II - **Weighted Course (Worth .33 more on grade points)**

Grade Level: 11-12

Prerequisite: Spanish II (B or better), Recommended B average in Language Arts

Length of Course: 1 semester = .5 credit

Spanish 2602 course is a three-credit hour college level course for students who have completed Spanish 2601 at UCM. This course is an intermediate level course that seeks to expand and reinforce the student’s knowledge base of vocabulary, grammar, and the cultural contexts in which Spanish is spoken. Speaking, writing, reading and listening skills will be developed. The course moves at a quick pace and new material will be presented most class periods. Students in this course must have an “acceptable proficiency as demonstrated by adequate high school course work in Spanish level 2,” as stated in the University catalog, or have successfully completed Spanish 1601, 1602 or 2601.

HEALTH

Course Title: Health

Grade Level: 9

Prerequisite: none

Length of course: 1 semester = .5 credit

An instructional program designed to motivate and assist students to maintain and improve health, prevent disease, and reduce health related risk behaviors. The varied topics include: wellness, nutrition, growth and development, mental and emotional health, grief and loss, conflict resolution, tobacco, alcohol, drugs, disease prevention, abstinence, teen sexuality, contraception, STD’s, and HIV/AIDS. Assessment is accomplished through daily assignments, notebook assignments, test, and performance modules.

PHYSICAL EDUCATION

Course Title: Weight Training

Grade Level: 9-12

Prerequisite: Beginning Weight Training

Length of course: 1 year = 1 credit

This course is the study and application of advanced weight training techniques. This course is designed to give the student experience in advanced lifting techniques, personal goal setting, and nutritional information to assist with a more rigorous workout.

Course Title: Physical Education

Grade Level: 9-12

Prerequisite: none

Length of course: 1 year = 1 credit

This class offers activities which strive to promote fitness for living in our new age of leisure time. These objectives are met through various individual sports such as badminton, bowling, handball, pickle ball and tennis; and through various team sports such as basketball, flag football, team handball, softball, speedball and volleyball.

Course Title: Fitness Walking

Grade Level: 9-12

Prerequisite: none

Length of course: 1 year = 1 credit

This course is designed to teach and apply the principles of walking for fitness benefits, utilizing the five major components of cardiorespiratory endurance, muscular strength, muscular endurance, flexibility, and body composition. A variety of health and wellness issues will be addressed.

NON-CREDIT OPTIONS

Course Title: A + Tutoring

Grade Level: 11-12

Prerequisite: Teacher approval, enrollment in LHS A+ Program, 2.5 GPA, and 95 % attendance rate.

Length of course: 1 semester, zero credit

Students are assigned to a classroom at one of the Lexington R-V District schools and tutor students in order to satisfy the A+ tutoring requirement.

TRADE & INDUSTRIAL

Course Title: Automotive Technology

Grade Level: 11-12

Prerequisites: None

Length of course: 2-Year Course = Year 1 – 3 Practical Arts, Year 2 – 3 Practical Arts (Could also earn 1 Comm. Arts, 1 Math embedded credit if all competencies are completed)

Instruction will include understanding and repairing all major systems of an automobile.

Students will work with a computerized 4-wheel alignment system, a Hunter front-end alignment system, electronic and computerized ignitions diagnostic equipment, a Coats tire changer, AMOCO brake lathe, starter and alternator test bench and a computerized wheel balancer.

Course Title: Collision Repair Technology

Grade Level: 11-12

Prerequisites: Computer Applications

Length of course: 2-Year Course = Year 1 – 3 Practical Arts, Year 2 – 3 Practical Arts (Could also earn 1 Comm. Arts, 1 Math embedded credit if all competencies are completed)
Instruction provides the student with the ability to earn I-Car Pro Level 1 Certificate for refinish and non-structural technician. Refinish includes: remove trim and hardware, prep and prime vehicle and parts, use and maintain spray guns, mix, store, and dispose of hazardous materials, understand the corrosion protection process, sand, buff, and detain a refinished vehicle.
Non-structural includes: remove and install trim and hardware, identify various vehicle materials, bolt-on-parts, and movable glass, perform steel cosmetic straightening and plastic repair.

Course Title: Computer Maintenance and Networking

Grade Level: 11-12

Prerequisites: Computer Applications class and basic knowledge of computer operations or demonstrated knowledge of personal computer systems.

Length of course: 2-Year Course = Year 1 – 3 Practical Arts, Year 2 – 3 Practical Arts (Could also earn 1 Comm. Arts, 1 Math embedded credit if all competencies are completed)

Students will learn computer networking, trouble shooting, repair, and support. Students will also learn to design, build, and maintain Local and Wide Area Computer Networks. Other areas of study include installing and configuring hardware, software, and printer problems. Second year students will work with computer problems within the district, telecommunication cabling, and CISCO networking.

Course Title: Industrial Welding

Grade Level: 11-12

Prerequisites: None

Length of course: 2-Year Course = Year 1 – 3 Practical Arts, Year 2 – 3 Practical Arts (Could also earn 1 Comm. Arts, 1 Math embedded credit if all competencies are completed)

Instruction includes three basic types of welding stick operations including electrode, MIG and TIG. Students will also learn the three basic cutting principles including oxyacetylene, plasma arc, and carbon arc. These methods are then applied to the construction and metal fabrication industry. Blueprint reading and metallurgy are also taught to supplement the student's skills.

HEALTH & HUMAN SERVICES

Course Title: Culinary Arts

Grade Level: 11-12

Prerequisites: None

Length of course: 2-Year Course = Year 1 – 3 Practical Arts, Year 2 – 3 Practical Arts (Could also earn 1 Comm. Arts, 1 Math embedded credit if all competencies are completed)

The focus of study in culinary arts will be food service terminology, equipment identification and use, knife skills, and basic food preparation. This class is designed to prepare students to create restaurant quality meals. Successful completion of this course will prepare students for entry-level positions in full-service restaurants, hotels, and continued education in a culinary

program at the college level. Skills that will be attained include: Demonstrate knowledge of the hospitality industry, practice appropriate sanitation and safety procedures, plan and develop meals, demonstrate knowledge of good nutritional standards, read and follow multi-step recipes, gain leadership skills through classroom and Skills USA activities, and demonstrate proper table settings and service techniques

Course Title: Health Occupations

Grade Level: 11-12

Prerequisites: None

Length of course: 2-Year Course = Year 1 – 3 Practical Arts, Year 2 – 2 Practical Arts (Could also earn 1 Comm. Arts, 1 Math, and 1 Science embedded credit if all competencies are completed)

This is an excellent introduction to the world of health care for those wishing to enter that field. Students learn basic skills in patient care. Areas of study include anatomy and physiology, emergency procedures, basic microbiology, and interpersonal relations. Students spend one quarter the first year in actual healthcare facilities doing job shadowing. The entire second year is spent working in a healthcare facility where the student performs entry level duties.

Course Title: Early Childhood Professions and Teaching Professions

Grade Level: 11-12

Prerequisites: None

Length of course: 2-Year Course = Year 1 – 3 Practical Arts, Year 2 – 3 Practical Arts (Could also earn 1 Comm. Arts, 1 Math embedded credit if all competencies are completed)

This course will prepare students for entry into the workforce, a college degree program to pursue a career as an early childhood professional, or a career with children. The course will be structured around the Child Development Associate (CDA) national credentialing program, and the Career Pathways for the Teaching Profession. Students will acquire skills in child growth and development, nutrition, program planning and management, safety, behavior, guidance, recreational and play activities, child abuse and neglect, parent-child relationships, learning experiences for children and maintenance of children's environment. Laws, regulations and policies related to child care services and maintenance of children's environment will be covered. Students will have the opportunity to apply skills learned in lab settings through observation/participation in public and private schools. College credit through UCM partnership is also available for these courses: CFD1010, CFD1230, CFD1220, FLDX2150, and EDFL2250 while students are in this program.