

Knox County R-1 School District

Career Pathways Guide

Revised: March 2017

KNOX COUNTY R-I HIGH SCHOOL

The Knox County R-I High School is accredited by the Department of Elementary and Secondary Education of Missouri. It offers a four-year program for Missouri residents. Non-residents may apply for admission by contacting the school administration; tuition payments are required for non-resident students.

DISTRICT MISSION

“We, the Knox County R-I Board of Education, administration, and staff believe that all students can learn and can achieve mastery of basic skills. We believe that our purpose is to educate all students to high levels of academic performance while fostering positive growth in social/emotional behaviors and attitudes. We believe that all other aspects of the school program are secondary to this purpose. Equipped with this focus we are committed to developing the characteristics of an effective school which are a clear school mission, strong instructional leadership, safe and orderly environment, high expectations and a system to measure achievement impact. We are life-long learners.”

EQUAL EDUCATIONAL OPPORTUNITIES

Each student, being limited only by individual differences; should be given the opportunity to develop and achieve to the maximum extent possible. Therefore, the school district will foster an educational environment that provides equal educational opportunities for all students. Education programs, services, vocational opportunities and extracurricular activities will be designed to meet the varying needs of all students, and will not discriminate against any individual for reasons of race, creed, color, sex, national origin, economic status or disability.

PURPOSE OF THIS GUIDE

The purpose of this guide is to provide assistance to students, parents, and counselors in developing the students’ four-year sequence of high school classes and preparing for post-secondary decisions. Students should look at their interests, abilities, and talents to choose one of the six broad career pathways and then consider the possible careers in each pathway. The intent is not for students to decide on a specific occupation for the rest of their lives, but to focus on a broader career path to help them select school courses.

The Career Pathway Guide will help students to focus on and provide relevance to their course selections throughout high school. Each career path provides a suggested program of study for careers in entry and college prep levels. A change in paths or levels of post-secondary education can occur any time during the student’s high school career. It is hoped that career paths will help parents and other adults provide better assistance to students as they develop a four-year sequence of courses at Knox County R-I School.

OVERVIEW AND BENEFITS OF CAREER PATHS

Career paths are clusters of occupations/careers grouped according to participants’ interests and talents or skills. Selecting a career path is not a lifelong commitment; it is a place to begin focusing one’s energies. As students take different courses and learn more about themselves and careers, they will probably change career paths. Students who understand the career path concept will be aware that there are a variety of other related

possibilities if the first path they choose no longer fits them. If different career paths become more interesting, the students can reevaluate plans, make appropriate decision, and pursue other plans.

Benefits:

- All paths include a variety of occupations that require different levels of education and training.
- Career paths provide a plan for all students, whatever their interests, abilities, talents, or desired levels of education.
- Selecting a career path provides all students with an area of FOCUS, along with FLEXIBILITY and a VARIETY of ideas to pursue as they make decisions regarding course selection.
- Career paths allow all students to see a relevance to their selected school courses. Thus, students are more apt to do better in school.
- Career paths help parents and other adults provide better assistance to students as they discuss careers and select courses.

CHOOSING A CAREER CLUSTER

Knox County R-I students complete a career exploration unit in the 8th grade. At the end of the unit, a tentative career cluster is chosen by each student. Interest inventories and aptitude surveys are used in assisting the student in this choice. Students will then produce a 4 year plan to assist them in choosing classes that will guide them along their career cluster.

11th and 12th grade students are encouraged to sign-up for and take aptitude and ability assessments. Sophomores take the ASVAB. Starting with the class of 2016, juniors will be required to take the ACT in the spring of their junior year. The ACT may be taken as many times as necessary for the student to receive their desired score. The PSAT (pre SAT) is a college performance predictor. It may not be used for entry into college, but can indicate to a student how well they are progressing towards college level performance. These tests can also help a student make an informed decision about attending college and what to study in college. The Missouri Connections Career Interest Inventory will be given to all freshman and juniors.

As Knox County's students begin high school and gain new experiences, it is important to remember that planning is an ongoing developmental process with different activities at each grade level. Classroom presentations, workshops, career fairs, college days, testing, inventories, job shadowing, college and military representative visits, individual conferences, school bulletins, counseling office and library reference materials are provided for all Knox County students.

As students have new experiences and participate in these activities, they will learn new things about themselves and may change career clusters. A career path is not a permanent commitment. The following are suggested activities by grade level for students and parents to complete. These activities will help the student prepare for graduation and to look ahead both educationally and occupationally. These are in addition to other activities being conducted by the staff at school.

GRADE 9

1. Solidify Four-year plan
2. Get involved in extracurricular activities
3. Review graduation requirements
4. Participate in Mentoring program
5. Take the Career Interest Inventory on Missouri Connections
6. Develop good study habits
7. Review tenth grade educational plans with parents and counselor; enroll for 10th grade

GRADE 10

1. Take the ASVAB
2. Take the Work Values assessment on Missouri Connections
3. Continue to be involved in extracurricular activities
4. Start to explore post-secondary plans - job shadowing
5. Explore possibility of vocational/technical school programs
6. Review graduation requirements and schedule for 11th grade
7. If interested in taking dual credit courses, take the ACT for qualifying scores in English & Math (See course descriptions for qualifying scores).

GRADE 11

1. Consider taking the PSAT/NMSQT (pre SAT & qualifying test for the National Merit Scholarship)
2. Continue to monitor academic progress
3. Take the ACT (required starting with the class of 2016)
4. Continue to be involved in extracurricular activities
5. Solidify post-secondary plans and begin collecting information about various programs
6. Review graduation requirements and schedule for 12th grade
7. Choose electives that are consistent with post-secondary plans
8. Take the Career Interest Inventory on Missouri Connections
9. Update activities and awards file portfolio

GRADE 12

1. Review post-secondary plans with counselor and parents
2. Take the ACT
3. Prepare an outline of academic activities and awards – ongoing
4. Attend College Fairs
5. Visit prospective college campus
6. Attend FAFSA Night and Complete FAFSA form (financial aid)
7. Meet deadlines for post-secondary plan
8. Contact individuals for possible recommendations and references
9. Complete scholarship applications by posted deadlines

YOUR CHOICES AFTER HIGH SCHOOL

On-the-Job Training: Some occupations do not require training before employment.

Apprenticeship: Apprenticeship is a three- to four-year training program where you earn money while you learn; you are working on the job. You receive a license at the end of training. Examples of trades that use apprenticeship are bricklaying, jewelry making, electrical repair, plumbing, iron working, etc.

Vocational Technical: Programs at these schools are generally one month to two years in length.

Trade Schools: Examples of vocational technical/trade school programs include practical nursing, robotics, and business.

Community/Junior College: Offers two-year “degree” vocational training, associate degrees, or credit transfer to a college or university where you can pursue a bachelor’s degree. Most community colleges have an open enrollment policy for high school graduates and individuals with GEDs. They may offer remedial courses.

College/University: A bachelor’s degree requires approximately four years of college. A master’s degree usually requires one to two years of college beyond the bachelor’s degree. A minimum of a bachelor’s degree is required for about 20 percent of the occupations in the United States. Entrance requirements depend on the desired program/major.

Job Corps: Vocational/skill training is provided at various locations throughout the nation. Training, room and board, and sometimes child care are provided free to economically disadvantaged youth, male and female, ages 17-20.

Military: Training is available for many jobs while you are enlisted. You also receive financial assistance for college, pay, room and board, and insurance benefits. High School graduation is required.

QUESTIONS AND ANSWERS

Q: What if students change their minds?

- A career path choice is not a permanent commitment.
- As students have new experiences, they will learn new things about themselves and may change career paths. If they decide on new career paths, they can discuss it with their counselor and adjust future course selections accordingly.

Q: What steps are involved in making a career path decision?

- Identify interests, abilities, and talents.
- Consider the possible careers in each path in relationship to those interests, abilities, and talents.
- Decide which career path seems to fit best.
- Select courses that are related to the career path chosen.

Q: How can parents and other interested adults help?

- Assist student in identifying interests, abilities, and talents by discussing strengths with them.
- Share information about careers and work experiences.
- Arrange for students to talk with people about careers that are of interest.

Q: How can I decide which Career Path best fits me?

- Start by thinking about yourself and answering the questions at the top of each career page.
- Consider the possible careers in each path.
- Decide which career path best fits your interests and strengths.
- Select courses that are related to your career path.

EXPLORE YOUR OPTIONS

- Read about careers and training or college in the counseling department’s career center, public library, newspapers, and high school media center.

- Visit work places, observe, shadow and volunteer.
- Investigate technical schools, community, and four-year colleges.

KNOW YOURSELF

EDUCATION	What courses have you taken? With how much academic challenge are you comfortable? Do you want to continue with college, vocational training, or on-the-job training?
INTERESTS	What are you interested in – working with people, working alone, working indoors or outdoors? Develop a list of the types of jobs and conditions you like best, but be flexible. Have you chosen one of the six career paths?
SKILLS & ABILITIES	Make a list of your skills and abilities. Include your organizing skills, your management skills, and your special talents.
EXPERIENCE	What has been your involvement in clubs, social activities, travel, volunteer work, or paid employment? Include the types of responsibilities you have had in these activities.
VALUES	What are your beliefs and attitudes toward yourself, other people, and the world?
STRENGTHS	What are your best personal qualities? What attributes do you want your potential employer to know about you?
AREAS OF IMPROVEMENT	What do you want to improve about yourself?
GOALS	What do you want to accomplish in four to five years? Develop a plan for immediate and long-range goals.

HOW TO USE THIS CAREER PATHWAYS GUIDE

If your answers to “Know Yourself” on the previous page indicate that you want to

Enter the work force immediately after graduation:

- Select courses that give you specific information and skills for employment
- Examine job placement opportunities

Enter the military:

- Graduate from High School.
- Select courses that prepare you for the military occupational specialty (MOS) in which you are interested
- Examine the vocational school options, which are related to your MOS choice
- Contact local recruiters by telephone or talk with them when they visit our school

Enter technical school, community college, four-year college:

- Observe the admission requirements and articulation requirements
- Select the courses required by the school(s) of your choice
- Maintain your record of activities, leadership roles, honors, achievements, and courses completed when applying to schools
- Explore high school educational options that help you develop your lifestyle plan and follow procedures for those you choose

CAREER RELATED ASSESSMENT SCHEDULE

In order to assess students' interests and abilities and assist them in making career plans, a battery of assessments is given to students beginning in their 8th grade year and continuing through their 11th grade year. The assessments are as follows:

The ACT Assessment is the most widely accepted college entrance exam. The exam measures skills in English, math, reading, and science. The ACT also has an optional writing section. The ACT can be taken multiple times and at any grade level.

Eighth Grade Year: The Missouri Connections Career Interest Inventory will be taken. It helps students explore various careers and plan for their futures. It does this by categorizing students' responses to questions into 16 major clusters of interest. This helps students to identify which career and educational goals best relate to their interests. Essentially, it helps eighth graders narrow down their career possibilities by helping them decide what they like to do.

Ninth Grade Year: All students will begin a portfolio as part of the students' ongoing career education and assessment that will be reviewed and updated annually during their four years of high school. The portfolio will include a four-year plan that designates a course of study or career pathway, which requires parent/guardian involvement and allows for change in course of study or career pathways. The Missouri Connections Career Interest Inventory will be taken.

Tenth Grade Year: The Department of Defense's ASVAB (Armed Services Vocational Aptitude Battery) is a multi-aptitude test battery. It consists of 10 short individual tests covering Word Knowledge, Paragraph Comprehension, Arithmetic Reasoning, Mathematics Knowledge, General Science, Auto & Shop Information, Mechanical Comprehension, Electronics Information, Numerical Operations, and Coding Speed. Individual and combined scores given to yield three academic scores: Verbal, Math, and Academic Ability. A career exploration program follows the academic testing, which allows juniors to identify careers that match their abilities, values, and interests. The military also uses this battery to determine which jobs entering persons are eligible for. The Missouri Connections Career Interest Inventory will be taken.

Eleventh Grade Year: Starting with the class of 2016 all juniors will take the ACT in the spring of their junior year. (OPTIONAL)
PSAT/NMSQT-- is a standardized test that measures verbal reasoning skills, critical reading skills, math problem-solving skills, and writing skills. It provides academic competition for recognition and scholarships through the National Merit Scholarship Corporation. It is the qualifying test for the National Merit Scholarships. Students may take the test both the sophomore and junior year remembering the test is designed for juniors.

GRADUATION REQUIREMENTS

Students must complete the following MINIMUM requirements in order to graduate from Knox County High School.

Language Arts	4 credits	Practical Arts	1 credit
Mathematics	3 credits	Physical Education	1 credit
Science	3 credits	Health	.5 credit
Social Studies	2 credits	Personal Finance	.5 credit
Government/Civics	1 credit	Electives	<u>7 credits</u>
Fine Arts	1 credit	Total	24 credits

Language Arts must consist of English I, English II, and English III, English IV, MACC Composition I and II, MACC Speech and Multimedia/Journalism. Other courses may account with administrator approval.

Social Studies must consist of American History and World History.

Graduates must pass the Missouri and U.S. Constitution tests. The MO Constitution is taken during junior year and 80% is passing. The US Constitution is taken during 8th grade year and 70% is passing. Starting with the Class of 2021, students will take the Citizenship test during their freshmen year and 60% is passing.

Beginning with the Class of 2018, each student will be required to receive 30 minutes of CPR instruction and training in the Heimlich maneuver. Science must consist of Biology and two other sciences chosen by the student. One science must include a lab portion.

Students may choose the embedded option. An embedded credit course incorporates competencies from one subject into another (host) subject and allows students to earn credit for both. The embedded content should align closely to state standards that are grade appropriate for the course. For example, in Missouri, those standards would be Show-Me Standards, Grade Level Expectations (GLEs), or Curriculum Frameworks. An example of an embedded credit would be a student earning three units of Vocational Agriculture (AG I, AG II, and 1 or 2 of the following depending on class length--Animal Science, Food Science, Greenhouse Operations and Management, Conservation of Natural Resources, Floriculture, or Landscaping) which could be used to waive one unit of science.

The math requirement will be fulfilled through various options, using 1 of the 3 tracks. Track #1 is Fundamentals of Algebra, Algebra I, and Fundamentals of Geometry. Track #2 is Algebra I, Geometry, Algebra II. Track #3 is Geometry, College Algebra, Trigonometry/Statistics or Calculus.

The following table shows the sequence of classes students will take each year:

SUBJECT	FRESHMEN	SOPHOMORE	JUNIOR	SENIOR
English	Language Arts I	Language Arts II	Language Arts III or higher	Language Arts IV or higher
Math	Mathematics	Mathematics	Mathematics	If college bound
Science	Biology or science elective	Biology or science elective	Biology or science elective	If college bound
Social Studies	American History	World Survey	Government	
Physical Education	1 Credit--Recommended for 9 th or 10 th grade			
Fine Arts	1 Credit--Recommended for 9 th or 10 th grade			
Practical Arts	1 Credit--Recommended for 9 th or 10 th grade			
Health/Personal Finance	0.5 Credit of each Recommended 10 th grade			
Electives	7 Credits—see Career Pathways section for specific class suggestions.			
Foreign Language	If college bound take Spanish I and II			

A+ SCHOOLS PROGRAM

Knox County R-I High School has been designated by the Missouri Department of Elementary and Secondary Education as an A+ High School. The A+ vision for the Knox County R-1 School District is to provide all students the necessary knowledge and skills to be successful in their endeavors beyond high school.

Graduates of Knox County R-I High School may be eligible for two years of paid tuition and fees to attend any Missouri public community college, vocational school, or technical school for a period of four years from the date of graduation.

To be eligible, students must meet the following requirements:

- Sign an A+ Participation Agreement
- Attend three consecutive years and graduate from a designated A+ School
- Graduate with a 2.5 cumulative GPA on a 4.0 GPA scale
- Graduate with an attendance record of 95% for the four years of high school

- Complete fifty hours of unpaid tutoring/mentoring (SAM during senior year)
- Maintain a record of good citizenship and avoid the unlawful use of drugs, tobacco and alcohol
- Make a good faith effort to first secure all available post-secondary funds that do not require repayment by submitting the FAFSA to receive funds
- Have achieved a score of proficient or advanced on the Algebra I end of course exam or a higher level DESE approved end –of –course exam in the field of mathematics

CLASS STATUS

To qualify for specific grade status, students must meet the following criteria:

Freshman Status – Promotion from the 8th grade.

Sophomore Status – Minimum of 6 units of credit prior to the beginning of the school year.

Junior Status – Minimum of 11 units of credit prior to the beginning of the school year.

Senior Status – Minimum of 17 units of credit prior to the beginning of the school year.

ACADEMIC LETTER

Letters will be awarded in September of each year and will be given to students not previously receiving the letter and who have earned a grade point average of 8.0 or better in three of the four quarters in the preceding year. Students already possessing a letter will receive the appropriate bar. A gold bar will be given to students on the A honor roll three of four quarters and a silver bar to those on the B honor roll three of four quarters.

GRADE POINT AVERAGE

Knox County High School uses a weighted 4-point scale in calculating honor rolls and student grade point averages. All semester and full year classes are included in the calculation, except classes on a pass/fail grade. A pass grade does not affect grade point average, but a fail grade is calculated in the student grade point average. At graduation, the senior with the highest grade point average is declared the valedictorian, the student ranking next highest is declared the salutatorian. See Board Policy 2523.

Dual Credit

Knox County High School offers several dual credit classes. Students enrolled in these classes can receive college credit in addition to their high school credit. All the dual credit courses are weighted.

PERSONAL PLAN OF STUDY FOR:

Name _____

Graduation Year _____

Choose a Career Path (Circle One)

Business, Management, & Technology

Arts & Communications

Health Services

Industrial & Engineering/Technology

Human Services

Natural Resources

Use the following as a guide for selecting your course schedule for your high school years and beyond.

9 th	10 th	11 th	12 th
LA I	LA II	LA III or DC	LA IV
American History	World Survey	Government	_____
Math: _____	Math: _____	Math: _____	Math: _____
Science: _____	Science: _____	Science: _____	Science: _____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

All students need a total of **24 (25 College Prep)** or more credits to graduate.

Language Arts - 4 credits (4-College Prep) Mathematics - 3 credits (4-College Prep) Science - 3 credits (3-College Prep)

LA I _____

LA II _____

LA III (or DC) _____

LA IV (or DC) _____

Physical Science _____

Biology _____

Other _____

Other _____

Social Studies - 3 credits (3-College Prep)

American History _____

World Survey _____

American Government _____

Personal Finance -.5 unit _____

Foreign Language- (2-College Prep)

Spanish I _____

Spanish II _____

Health-.5 _____

Practical Arts-1 Fine Arts-1

Physical Education-1 _____

Electives – 7 credits

Post-Secondary Education/Training (Cluster)

Major Area of Study or Training: _____

Circle Post-Secondary Education/Training Choice for
grades 13, 14, & beyond:

**Career Center 2-Year College University Military
Other**

Name or Post-secondary Institution:

Short-Term Educational/Career Goal:

Long-Term Educational/Career Goal:

Career Related Activities/Job Shadowing/Work Experiences:

Go through your **Plan of Study** above and make sure you have all the requirements you need to graduate.

YOU MUST HAVE SUCCESSFULLY MET ALL GRADUATION REQUIREMENTS TO GO THROUGH THE GRADUATION CEREMONY

All students are required to return to the counselor their official class selection with their parent's signature:

Parent's signature _____

Student's Signature _____

Date _____

Please check one of the following:

Initial ___ 9th Review ___ 10th Review ___ 11th Review ___

CAREER PATHS

Arts and Communication

These occupations are related to the humanities and the performing, visual, literacy, and media arts. They may include audio and video technology and film, printing technology, visual arts, performing arts, journalism and broadcasting, and telecommunications.

Business, Management and Technology

These occupations are related to the business environment. They may include network systems, information support and services, interactive media, programming and software development, management and entrepreneurship, professional sales and marketing, buying and merchandising, marketing, distribution and logistics, e-marketing, financial and investment planning, business financial management, banking, insurance, management, business management and accounting, human resources, business analysis, and administrative and information support.

Natural Resources Agriculture

These occupations are related to the environment and natural resources. They may include food products and processing systems, plant systems, animal systems, power, structural and technical systems, natural resources and environmental systems, and agribusiness systems.

Human Services

These occupations are related to economic, political and social systems. They may include early childhood development, counseling and mental health services, family and community services, personal care services, consumer services, restaurants/food/beverage services, recreation, amusement, and attractions, travel and tourism, lodging, public management and administration, governance, national security, foreign service, revenue and taxation, correction services, emergency and fire services, security and protective services, law enforcement, legal services, administration and teaching.

Industrial and Engineering Technology

These occupations are related to the technologies necessary to design, develop, install or maintain physical systems. They may include engineering, design, construction, maintenance and operations, production, manufacturing, installation and repair, quality assurance, logistics and inventory control, health safety and environmental assurance, transportation, warehousing and distribution, sales and service.

Health Services

These occupations are related to the promotion of health and the treatment of disease. They may include biotechnology research and development, therapeutic services, diagnostics services, health informatics, and support services.

ARTS & COMMUNICATIONS-Creative Path

Are you....Creative, Imaginative, Innovative, Original, Good at Communicating Ideas?

Possible Arts, Audio/Visual Technology, and Communications Occupations

- | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • Fashion Designer • Industrial Designer • Photographer/Camera Operator • Visual Artist • Radio/Television Announcer/Newscaster • Journalist • Model | <ul style="list-style-type: none"> • Florist • Merchandise Display Worker • Set Designer • Interpreter/Translator • Reporter/Correspondent • Actor/Director/Producer • Musician | <ul style="list-style-type: none"> • Graphic Artist • Motion Picture Camera Operator • Sign Painter and Letterer • Public Relations Specialist • Technical Writer • Dancer/Choreographer • Archivist |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Suggested Career Specific Electives	Speech, Yearbook, Multimedia/Journalism, Art I, Digital Art, Draw/Paint, Sculptures, Arts & Crafts, Desktop Publishing, Video Editing, Band, Composition, Graphic Arts And Printing (Vo-Tech)
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BUSINESS, MANAGEMENT & TECHNOLOGY-Business Path

Can you...Lead, Organize People, Plan Activities for Others, Talk with People, Work with Numbers or Ideas, Carry Through with an Idea?

Possible Business, Management & Technology Occupations:

- | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • Accountant/Auditor • Education Administer • Stockbroker/Securities • Marketing Research Analyst • Court Reporter | <ul style="list-style-type: none"> • Cashier • Real Estate Agent/Broker • Personnel/Training • Adjuster/Investigator/Collection • Postal Clerk/Mail Carrier | <ul style="list-style-type: none"> • Construction Contractor • Appraiser • Sales Representative • Bookkeeping/Accounting | <ul style="list-style-type: none"> • Insurance Agent/Broker • Health Services Mgr • Retail Sales Manager • Computer Systems Analyst |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Suggested Career Specific Electives	Computer Applications, Coding, Video Editing, Intro to Business, Accounting I & II, Psychology, Economics, Sociology, AG I & II, Ag Business, Ag Management, Speech, Computer Technology (Vo-Tech)
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HEALTH SERVICES-Health Path

Are you interested in...Helping People Get/Stay Well, How the Body Works, Observing and Noting Changes in Patients?

Possible Health Services Occupations:

- Physical Therapist
- Speech/Language
- Optometrist
- Podiatrist
- EMT/LPN
- Occupational Therapist
- Pathologist
- Dietitian
- Veterinarian
- Dental Hygienist
- Registered Nurse
- Dentist
- Physician
- Respiratory Therapist
- EEG/EKG Technologist
- Chiropractor
- Audiologist
- Pharmacist
- Medical Records Technician
- Surgical Technician

Suggested Career Specific Electives	Chemistry I & II, Anatomy/Physiology, Psychology, Family & Consumer Sciences, Agriculture classes, Health Services (Vo-tech), Child Care (Vo-Tech)
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HUMAN SERVICES-Helping Path

Are you...Friendly, Open, and Outgoing, Understanding and Cooperative, Good at solving Problems, Interested in Making Things Better for Others?

Possible Human Services Occupations:

- College Professor
- Archivist/Curator
- Lawyer/Judge
- Police Officer
- Guard
- Cosmetologist/Barber
- Elementary/Secondary Teacher
- Court Administrator
- Paralegal
- Firefighter
- Special Agent
- Flight Attendant
- Counselor
- Adult/Vocational Education Teacher
- Chef/Cook
- Social Worker
- Animal Caretaker
- Rail Transportation Worker
- Librarian
- Special Education Teacher
- Correction Officer
- Detective
- Truck Driver

Suggested Career Specific Electives	Computer Applications, Forensics, Psychology, Family & Consumer Sciences, Agriculture classes, Industrial Technology classes, Child Care (Vo-Tech), Computer Technology (Vo-Tech)
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INDUSRTIAL & ENGINEERING TECHNOLOGY-Building & Fixing Path

Are you...Mechanically Inclined, Good with your Hands, Practical, Good at Building Things, Interested in Knowing How Things Work?

Possible Industrial & Engineering Technology Occupations:

- | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • Bindery Worker • Electrical/Electronics Engineer • Carpet Installer • Roofer • Drywall Worker • Water Treatment Plant • Air Traffic Controller | <ul style="list-style-type: none"> • Prepress Worker • Mechanical/Petroleum Engineer • Welder/Tool/Die Maker • Surveyor • Aircraft/Auto/Diesel Mechanic • Heating/Air Conditioning • Broadcast Technician | <ul style="list-style-type: none"> • Aerospace/Nuclear Engineer • Machinist • Electrician • Architect/Landscape • Painter • Sheet Metal Worker • Computer Programmer | <ul style="list-style-type: none"> • Civil/Industrial/Chemical Engineer • Bricklayer • Insulation Work • Carpenter • Glazier • Aircraft Pilot |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Suggested Career Specific Electives	Computer Applications, Ag I & II, Metals, Woods, Electrical, Drafting I, II, III, Industrial Arts, Auto Collision (Vo-Tech), Construction Trades (Vo-Tech), Auto Mechanics (Vo-Tech)
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NATURAL RESOURCES AGRICULTURE-Nature Path

Are you...Interested in Nature, Physically Active, Interested in Plants and Animals, Curious about the Physical World, Good at Observing, Learning, Investing, or Problem Solving?

Possible Natural Resources Agriculture Occupations:

- | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • Chemist • Agriculture Scientist • Farm Worker • Nursery Worker | <ul style="list-style-type: none"> • Geologist/Geophysicist • Biological Scientist • Farm Operations Manager | <ul style="list-style-type: none"> • Meteorologist • Forester/Conservationist • Coop. Extension Personnel | <ul style="list-style-type: none"> • Physicist/Astronomer • Agriculture Engineer • Fish/Game Specialist |
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Suggested Career Specific Electives	Computer Applications, Chemistry, Ag I & II, Animal Science, Ag Management, Ag Plant, Floriculture, Horticulture, Botany, Zoology,
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COURSE DESCRIPTIONS

COMMUNICATION ARTS

Language Arts I

LA 109

This course is designed to help students with their mastery of basic skills. Literature study presents varied human experiences through forms of short stories, drama, non-fiction, poetry and the novel. Language student includes a strong emphasis on grammar, usage, spelling, and vocabulary. Composition concentrates on variation of sentence structure in the organization of paragraphs.

R 1.0 Grade 9

Language Arts II

LA 110

Students will study grammar and vocabulary to increase communication skills within and beyond the classroom. By studying all genres of literature, students will acquire the knowledge and skills to gather, analyze and apply information and ideas. Classroom activities and projects are designed to aid the student in acquiring the knowledge and skills necessary to recognize and solve problems as well as in making decisions and acting as responsible members of society.

R 1.0 Grades 10

Prerequisites: LA I

Language Arts III

LA 111

This course focuses on American Literature, literary elements, vocabulary, grammar, style and essays. Language Arts III students will learn the fundamentals of research and will write a research paper for this course. Language Arts III students will learn the fundamentals of research and will write a research paper for this course.

R 1.0 Grades 11

Prerequisites: LA I, LA II

Language Arts IV

LA 112

This course is designed to help students become exposed to epics and classical literature while reviewing classical literature while reviewing elements, style, comprehension, analysis, vocabulary, and grammar. Students will also learn steps of obtaining a job including but not limited to applications, resumes, cover letters and interview. Career research is also covered in this class.

E 0.5 Grades 11, 12

Prerequisite: LA III or College English I

Mass Media (Yearbook)

LA 303

Production of the yearbook will be the primary focus of this class. As the year progresses students will be learning an online publishing interface, exploring what makes an effective photograph and how to take one, and writing copy and captions for each layout in the book. Students will be required to sell commercial advertisements, interview students and staff, layout information, meet deadlines, and work as a team. This hands-on course demands that the student be a self-starter and motivated in order to achieve quality design and text. The work may require that the student attend school activities outside of the regular school day.

E 1.0 Grade 9,10,11,12

Prerequisite: Application to enroll & Desktop Publishing preferred

Multimedia Journalism

LA 303

The course is a reporting and production course in which students gather information using journalism practices, such as in-person interviews, conduct research and learn to use various technologies to produce journalism stories for online and print distribution. Students will create numerous original stories using varied structures and writing techniques. Students will also learn the basics of photojournalism and caption writing. The work may require that the student attend school activities outside of the regular school day.

E .5 Grade 11, 12

MACC Composition I**LAL101**

This course teaches process writing, from pre-writing to revision. Focus is on reading and critical thinking, essay writing, and literary analysis. Course provides practice in computer assisted writing and oral communication

E 1.0 Grade 11, 12

Prerequisites: **Dual Credit if 17 in Reading and 18 in English portions of ACT & GPA 3.0****Weighted****MACC Composition II****LAL102**

Students are introduced to research writing through originality, organization, and persuasion. Focus is on critical thinking when conducting research, considering sources, and synthesizing information.

E 1.0 Grade 11, 12

Prerequisites: **College English I & GPA of 3.0****Weighted****College Speech****SPK 101**

This course studies the role of speaking in communication in both formal and informal situations. The course includes a study of the communication process, the role of the listener, methods of speech organization, informative and persuasive techniques, and effective delivery.

E 1.0 Grade 11, 12

Prerequisites: **Dual Credit; no ACT required; GPA of 3.0****Weighted**

MATHEMATICS

All mathematics courses require teacher's permission in addition to prerequisites

Fundamentals of Algebra**MT 113**

This course is targeted to help students with math computation to build foundation needed for Algebra. The course will review and solidify concepts of mathematical factors including multiplication, division, addition, and subtraction in addition to introducing beginning algebra concepts such as solving equations, linear equations, slope/rate of change, and systems of equations.

R 1.0 Grade 9, 10, 11, 12

Fundamentals of Geometry**MT 111**

This course is designed to introduce students to the basic concepts of geometry. Students will be exposed to real-life, job-related mathematical skills to prepare them to think logically and problem solve in society. In addition to this, students will be exploring geometric theorems and a review of basic algebraic concepts.

R 1.0 Grade 10, 11, 12

Algebra I**MT 112**

This is a traditional algebra course designed to help students understand the basic structure of algebra and apply basic algebraic concepts to problem solving.

R 1.0 Grade 9, 10

Geometry**MT 201**

This course will increase the student's ability to carry on logical thinking and employ geometric processes. Students will study figures and measures, parallel lines, congruent, polygons, quadrilaterals, trapezoids, and asymmetric polygons and coordinates.

E 1.0 Grade 9, 10, 11

Prerequisite: "C" or higher in Algebra I or teacher recommendation

Algebra II**MT 200**

This course is an extension of Algebra I, studying equations and inequalities, polynomials, roots, quadratic equations, exponents, logarithms, statistic, and probability. This class will help students improve logical thinking skills.

E 1.0 Grade 10, 11, 12

Prerequisites: "C" or higher in Algebra I or teacher recommendation

Precalculus Algebra**MTH 140**

Topics include solving equations, various functions and their graphs, including polynomial and rational functions and exponential and logarithmic functions; and introductions to analytic geometry. The course includes systems of equations and inequalities.

E 1.0 Grade 11, 12

Prerequisites: **Algebra II, Geometry, Dual Credit-20+ on the math portion of ACT & GPA 3.0**

Weighted

Precalculus Trigonometry**MTH 145**

This course includes angle-based trigonometric functions and their inverses, multiple angle formulas, identities, trigonometric equations, radian measure, arc length, angular velocity, graphs of trigonometric functions, and solution of right triangles.

E 0.5 Grade 11, 12

Prerequisites: **Algebra II, Geometry, Dual Credit-22 on the math portion of ACT & GPA 3.0**

Weighted

College Statistics**MTH 160**

This course includes elementary probability and statistical inference, descriptive statistics, testing hypotheses and estimation, t-distribution, chi-square distribution, correlation and significance. Prerequisite: Successful completion of Algebra II

E 0.5 Grade 11, 12

Prerequisites: **Algebra II, 22 on the math portion of ACT or taken College Algebra & GPA 3.0**

Weighted

College Analytic Geometry and Calculus MTH 201

Students are introduced to plane analytic geometry, including limits, continuity, derivative for functions of a single variable, differentials, indefinite and definite integrals, and applications of the derivative and integral.

E 1.0 Grade 12

Prerequisites: **Trigonometry, Dual Credit-24 on the math portion of ACT & GPA 3.0**

Weighted

SCIENCE

Physical Science**SC 109**

A basic course designed to introduce the sciences of chemistry and physics providing a general knowledge of these physical sciences.

R 1.0 Grade 9

Introduction to Chemistry

The course will consist of introductory chemical concepts ranging from atomic structure to chemical reactions. The course topics include matter and energy, chemical bonding, intermolecular forces, and acid/base concepts and nuclear changes.

Grade 9, 10

Biology**SC 200**

Students will use the methods of scientific investigation to gain an understanding of important biological concepts. Students will gain an appreciation of the natural world from the level of the molecule to the global biosphere.

R 1.0 Grade 10

Chemistry I**SC 301**

This course is a study of matter and the change it undergoes. Topics studied include measurement and solving problems, atoms, the periodic law, chemical bonding, formulas and compounds, reactions and equations, stoichiometry, gas, liquids, solids, solutions, acids, bases, pH. This course includes hands-on laboratory approximately one per unit.

E 1.0 Grade 10, 11, 12

Chemistry II**SC 401**

This course is designed to reinforce concepts students learn in Chemistry I. Emphasis is placed on lab work to give students an opportunity to review lab skills and procedures and also to acquire new skills.

E 1.0 Grade 11, 12

Prerequisite: Chemistry I

Weighted

Botany**SC 403**

This semester long course will introduce students to the structure and function of the plant kingdom. Through laboratory exercises, activities, projects and lecture, students will gain knowledge about the plants and their importance to humans and the world. Students will also learn how plants are classified.

E 0.5 Grade 11, 12

Prerequisite: Biology

STEM: Science is fun!

A year long course where students will learn about real life problems and how to solve them through the uses of science, technology, engineering, and math. This class is completely hands on learning.

Grade 11, 12

Prerequisites: Physical Science & Biology

Zoology**SC 404**

This semester long course will cover the structure, function and behavior of animals. Through laboratory exercises, activities, projects and lecture, students will gain knowledge about animals and how they impact the world in which we live. Comparative anatomy of animals through dissection will be a focus and will relate structure to function. Students will also learn how animals are classified.

E 0.5 Grade 11, 12

Prerequisite: Biology

Anatomy/Physiology**SC 304**

This course expands the knowledge acquired in Biology by application to the human body. In addition to studying the various organ systems (skeletal, muscle, digestive, reproductive, nervous, excretory, and endocrine), three unifying themes are discussed; the interrelations of body organ systems, homeostasis, and complementary of structure and function.

E 1.0 Grade 11, 12

Prerequisites: Physical Science, Biology, Chemistry is helpful

Weighted

Physics

This year long course is the study of the natural world. It deals with the fundamental particles of which the universe is made, and the interactions between those particles, the objects composed of them (nuclei, atoms, molecules, etc) and energy. **Physics** is the science of Nature - of matter and energy in space and time.

Grade 12

Prerequisites: Algebra II, Physical Science, Biology

Weighted

SOCIAL STUDIES

American History**SS 109**

This course will cover American History from Reconstruction to modern day America. It will focus on the major events and personalities of recent American History. Highlight of this course will include settling the West, the two world wars, the cold war, and finally modern America.

R 1.0 Grade 9

World Survey SS 200

A sophomore level required course, which explores ancient civilizations, the Middle Ages and Twentieth Century events. An overview of geography is an integral part of each unit. The long-term impact of civilizations, nations, and individuals is studied. Economic, social, and political influences over time are also studied. Students develop critical and analytical thinking skills and work on research and writing skills as well.

R 1.0 Grade 10

Government SS 300

This course is designed to make students knowledgeable of governmental processes and prepare them to be informed and involved citizens. Students will study the development of our government and issues relating to our rights and responsibilities. In addition, the Missouri Constitution will be studied and the required test will be given.

R 1.0 Grade 11

Current Events SS 201

This course will provide students with the opportunity to study in-depth events, which are happening in the present. In addition to studying events, people and places that are currently in the news, the course will examine the “history” behind some of these events.

E 0.5 Grade 11, 12

Semester OR Year Long

Geography This course explores how physical features of the earth, population settlement patterns, human activities, customs, and traditions contribute to defining a place, a culture and a people. The course examines how the land, features, people and cultures of the world affect the social, political, and economic character of nations and regions. Students will also learn about genealogy through research.

Grade 9, 10, 11, 12

Year Long

Practical Arts

BUSINESS EDUCATION

Personal Finance SS 301

This one semester course is based on the Missouri Personal Finance Competencies and presents essential knowledge and skills to make informed decisions about real world financial issues. Students will learn how choices influence occupational options and future earning potential. Students will also learn to apply decision-making skills to evaluate career choices and set personal goals. The course content is designed to help the learner make wise spending, saving, and credit decisions and to make effective use of income to achieve personal financial success. R 0.5

R .5 Grade 10

Computer Applications BUS 203

A basic, introductory course using personal computers using Microsoft Windows and Office Suite applications. This course also covers PC history, hardware, software and operating concepts. The student will receive hands on experience in MS Windows, Word, Excel, PowerPoint and other programs. This course is a prerequisite for all other computer courses.

E 1.0 Grade 9, 10, 11, 12

Desktop Publishing BUS 202

Students develop proficiency in using desktop publishing software, Photoshop and Indesign, to create a variety of business publications such as flyers, brochures, newsletters, etc. They also design and create custom items for individuals. In addition, students will learn to create Web pages and use multimedia equipment including scanner and digital camera.

E 1.0 Grade 9, 10, 11, 12

Accounting I**BUS 201**

Accounting I introduces students to the basic double-entry accounting concepts and related career opportunities. The student will analyze and record business transactions in journals, ledgers, and prepare financial documents. Students learn to keep records for three types of business – sole proprietorship, partnership, and corporations. Students will work on accounting problems and complete two simulations (one with actual source documents) covering the complete accounting cycle. Thus students have the opportunity to develop accounting skills for personal use, the workplace, and for more advanced study of accounting.

E 1.0 Grade 10, 11, 12

Accounting II**BUS 301**

This course is designed to provide the student with an opportunity to develop in-depth knowledge of accounting procedures and techniques using an automated accounting system. With the use of computers, students will review basic accounting procedures; and will learn: departmental and payroll accounting, partnership and corporation accounting, accounting control systems, accounting for taxes, notes and drafts, cost accounting, special problems in accounting for sales, and how management uses accounting data. It is designed for any student planning to continue the pursuit of a business or accounting program in college, as well as for those who have an interest in accounting careers upon high school graduation.

E 1.0 Grade 11, 12

Prerequisite: Accounting I

Computer Programming

This semester course focuses on converting problems into detailed plans, writing code into computer language, testing, monitoring, debugging, documenting and maintaining computer programs. Students will also design programs for specific uses.

Grade 9, 10, 11, 12

Web Design**BUS 302**

The goal of this class is to give you the knowledge and practical experience of being a Web designer. It will give you an all-around ability to understand web development as it applies to personal and professional use. Students in this course will create dynamic web pages using HTML, CSS and web design software (Macromedia Dreamweaver), and will focus on basics-typography, graphics and page layout. This class will consist of discussions, Web assignments, lab projects, Internet searches, and group work.

E 0.5 Grade 11, 12

Prerequisite Computer Application or Desktop Publishing

Multimedia (Video Editing)**LA 412**

Students will learn to produce a professional video. Topics include storyboarding, creating shot lists, camera operation, and editing of video/audio. Students will learn a basic understanding of the technology behind video as an information medium, and some of the ways in which it is created to achieve its desired effect on an audience. Upon completion, students should be able to demonstrate production skills and techniques as it relates to producing a variety of video formats. This class is responsible for producing the 8th grade promotion video and the senior graduation video.

E 0.5 Grade 10,11,12

Prerequisite Computer Application or Desktop Publishing

INDUSTRIAL TECHNOLOGY

7th and 8th Industrial Technology

This course will allow students to explore basic wood processing practices involving basic hand tools, basic electrical circuits and how alternative energy is produced. Students will then build and test a bicycle generator one year. The next year students will build a candy dispenser. Students also will turn their very own ink pen on the wood lathes every year. If some student get their projects completed early they have the option of making their own small project or they can assist on other projects under way in the shop. During this time students will have the opportunity to learn the torchmate software so they are familiar with it when they get into high school.

Electrical

Scientific theory of magnetism and electricity. This course will introduce students to the generation and distribution of electrical energy. Students will practice using Ohm's Law and Watt's Law to DC and AC circuits containing resistors, and/or capacitors, and/or inductors in series, parallel, and series/parallel combinations. The lab will include the use of testing equipment, bread boarding, and troubleshooting of basic DC and AC circuits. An introduction to residential wiring according to the NEC will also be covered. Student will build and solder their own multimeter and work on electrical projects around the school if they should arise.

Grades 11, 12

Prerequisites: Algebra II

Drafting I (1st semester)

Introduction to 2D engineering drawing using AutoCAD. This course will include orthographic projections, proper dimensioning, instruction of tolerances, section views, and fasteners. The final project will be to produce a complete set of working drawings.

Grades 9, 10, 11, 12

Drafting II (2nd semester)

Students will be introduced to Solid works program and apply it to create solid models. From these models students can create fully dimensioned orthographic projections, isometrics, various sections, and animated assemblies. They then can be printed on the 3D printer.

Grades 9, 10, 11, 12

Woods I

This course will introduce students to basic wood processing practices involving basic hand tools and machine operations. Students will become proficient in using measuring tools and project layout techniques. Students will be assigned 4 small projects that will use a variety of hand tools and must be completed before students will be able to choose one heirloom project to construct from a predetermined list.

Grades 9, 10, 11, 12

Woods II

This course will introduce students to the more advanced wood processing practices involving shapers, routers and other machining operations. Students will be required to make a set of plans complete with a material list for five predetermined projects. These include a headboard, cabinet, steamer trunk, checkerboard, toolbox, or hedge bow (**without arrows**).

Grades 10, 11, 12

Metals

This course will start with the basics of arc, mig, tig welding, and oxy welding and cutting. Students will be graded on a variety of welds from each process. Students will then submit their final assignment for dye testing. Students will also learn basic machining methods, and will master the use of measuring instruments such as calipers, micrometers, and snap gauges to manufacture parts with tolerances of $\pm .001$. Students will be required to layout and mark pieces for proper hole, and thread placement. Threading will be completed by the use of taps, or cut threads on the lathe and this course will be complemented by the TorchMate design software where students will be able to design a project and then cut their parts out on the Torchmate. Every student gets a 2x2 foot piece of 16 Ga. metal to design and cut from. This class will also work on projects for customers that may need welding, machining, or cut on the TorchMate. Students will design and make projects to sell for donations to help fund the Ind. Tech Program. This will all come full circle with a class trip to Vermeer Mfg. in Pella, Ia. and a trip to Clow Valve foundry and machine shop in Oskaloosa Ia. This trip will assist in tying together lessons in the classroom and the welding lab, as well as, giving students insight into the various manufacturing processes.

Grades 9, 10, 11, 12

Industrial Tech

This course will introduce students to residential maintenance. Student may have the opportunity to build a shelter for the PTO. They will work on various projects ranging from cabinet building, residential maintenance, metals projects, framing and construction. Students will also be able to design, write a bill of materials, and build projects of their choosing. Other maintenance projects from around the school will also be available for students to practice on. Students will also learn to operate the the Lincoln TorchMate. Students will get a 2x2 foot square of metal to design and cut for themselves. This class will also work on projects for customers that may need welding, machining, or cut on the TorchMate. Students will design and make projects to sell for donations to help fund the Ind. Tech Program. In addition to all this students will become Master Certified Technicians through Briggs and Stratton as well as through Stihl for 2-cycle engines.

Grade 10, 11, 12

Prerequisite: Metals and Woods I

VOCATIONAL AGRICULTURE

Exploring Agriculture

A general literacy course designed to introduce and apply life skills related to one of America's basic industries - agriculture. Units of instruction will be selected from Introduction to Agriculture, Plant Science, Animals in Society, Products from Agriculture, Natural Resources and Conservation, Leadership and Personal Development, and Basic Home and Farmstead Safety and Maintenance. Available every year

Grades 7, 8

Quarter class

Agricultural Science I

AG 109

A course designed for instruction in animal science, agricultural mechanics, career exploration, leadership and personal development, and supervised agricultural experience. Units may include agribusiness, natural resources, and food science. Available every year

E 1.0 Grade 9

Agricultural Science II

AG 200

A course designed for instruction in plant and crop science, soils, entomology, horticulture, and forestry, and additional instruction in agricultural mechanics, career development, leadership, and supervised agricultural experience. Available every year

E 1.0 Grade 10, 11, 12

Prerequisite: Ag. Science I

Supervised Agricultural Experience Co-op (FLEX)

This course provides for the enrolment 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. Available every year.

Grade 12

Prerequisites: Ag. Science I, Ag. Science II and one other Ag class

Conservation of Natural Resources

This course prepares students for activities in the conservation and/or improvement of natural resources such as oil, water, air, forests, fish and wildlife for economic and recreational purposes. Available during even years

Grade 11, 12

Year Long

Prerequisites: Ag. Science I, Ag. Science II

Food Science and Technology- This course includes the areas of food chemistry and nutrition, food additives, food packaging and labeling, evaluation of foods, food microbiology, food processing, food fermentation, principles of sanitation and quality control. Available during even years

Grades 11, 12

Semester Long with Communication

Prerequisites: Ag. Science I, Ag. Science II

Agricultural Communications and Leadership

This semester course will enable students to develop the knowledge, attitudes and skills to demonstrate positive leadership for agriculture. Areas of focus include public speaking, extemporaneous speaking, impromptu speaking, written communication, meeting people, good first impressions, personal goals, team work, team/organizational goals, organizing groups to take action and evaluation of team/organizational actions. Available during even years

Grade 11, 12 Semester Long with Food Science Prerequisites: Ag. Science I, Ag. Science II

Landscaping

This course includes the basic techniques of landscape design, landscape construction, installation, and maintenance. Available even years

Grades 11, 12 Semester long (With Floriculture) Prerequisites: Ag. Science I, Ag. Science II

Floriculture-This course includes the production, arrangement and retailing of flowers. It includes fresh, silk, or dried flowers to be used in the design of corsages, wedding bouquets, table flower arrangements, and seasonal holiday decorations. Available even years

Grades 11, 12 Semester Long (with Landscaping) Prerequisites: Ag. Science I, Ag. Science II

Greenhouse Operation and Management

This course develops a basic understanding of greenhouse techniques. The production of greenhouse crops will be used to demonstrate procedures such as plants started from cuttings, seeds, grafts, and layering. Students will manage their own crop as a greenhouse project. Available during odd years

Grades 11, 12 Year Long Prerequisites: Ag. Science I, Ag. Science II

Animal Science

Advanced study in animal production, management, marketing, nutrition, breeding, production records, selection, animal health, waste management, and biotechnology may be included in this course. Available odd years

Grades 11, 12 Year Long Prerequisites: Ag. Science I, Ag. Science II

Agricultural Management and Economics

This course combines farm management, agribusiness management, and content based on agricultural economic principles. Computer applications are included to enhance student understanding and utilization of current technology. Units include human relations, verbal and written communication, microcomputers in agriculture, economic principles, farm planning, agribusiness functions, and business management. Available during odd years

Grade 11, 12 Year Long Prerequisites: Ag. Science I, Ag. Science II

FINE ARTS

Art I FAA 109

Students will learn techniques that allow them to create a series of drawings, paintings and sculptures incorporating the use of the elements of art and principle of design. Students will be expected to research a famous artist.

E 1.0 Grade 9, 10, 11, 12

Drawing (1st semester) FAA 201

During this semester class, students will expand previous knowledge of drawing and explore new ideas. Students will be required to keep a sketchbook.

E 0.5 Grade 10, 11, 12 Prerequisite: Art I

Paint (2nd semester)**FAA 109**

During this semester, students will develop painting skills and techniques using acrylic paints. Students will explore the style of many artists throughout history, while developing their own paintings. The subjects considered and studied are, landscapes, still-life, the figure and abstraction.

E 0.5 Grade 10, 11, 12

Ceramics (1st semester)**FFA 110**

This semester course is hands-on. Students will concentrate on the basics of forming clay on and off the potters wheel. Students will be expected to research famous potters.

E 0.5 Grade 10,11,12

Sculpture (2nd semester)**FFA 111**

During this semester, students will explore the different mediums available to create 3-dimensional artwork. Glass, plaster, recycled items, foam board, and other mediums will be used. Students will be expected to research famous sculptors.

E 0.5 Grade 10,11, 12

Arts and Crafts**FAA 108**

This year long course will introduce basic ceramic pottery, mosaic tile, paper and fiber crafts, drawing with pencil or pastel, painting with oils, acrylic or watercolor, comic or cartoon art, basic bead, wire wrap, fused or metal jewelry and stained glass offered throughout the year. Basic elements and techniques of design, composition and drawing are emphasized in this course. The student is also offered the opportunity to work creatively in water color, tempera, pastel and many other media. The student learns to express himself and understand the basic application of media.

E. 1.0 Grade 9,10,11,12

Advanced Art**FAA 300**

This course is designed to meet the needs of those students whose career paths may require or allow further explanation of art. This course will focus on painting, sculpture and design.

E 1.0 Grade 10, 11, 12

Choir**FAM 201**

This class offers an opportunity for students to work intensively with vocal music. Students will learn to evaluate, interpret, and perform different types of vocal music. In addition to singing, students will learn about the physiology of the voice, proper vocal technique, and music theory pertinent to singing. Instructor will audition students before enrollment is completed for honor choir.

E 1.0 Grade 9, 10, 11, 12

Band**FAB 200**

Students enrolled in band will have the opportunity to continue their personal music development of skills and knowledge needed in instrumental music performance. As a part of the group, band students will work towards excellence in performance marching, concert, small ensemble and solo events. Students are expected to attend all performances and rehearsals.

E 1.0 Grade 9, 10, 11, 12

PHYSICAL EDUCATION AND HEALTH

Basic Physical Education PE 109

This course is designed for 9th and 10th grade students with no previous high school physical education credit. Students will perform fundamental skills and gain a basic knowledge of rules and strategies related to the individual, team, and lifetime sports. Physical fitness is the emphasis of the course. R 1.0 Grade 9, 10

Advanced Physical Education PE 200

This course is designed for students who have successfully completed Basic Physical Education. Curriculum will emphasize more advanced skill and strategy levels in all team lifetime, and fitness activities.

E 1.0 Grade 10, 11, 12 Prerequisites: Basic P.E.

Health HE 200

This is a required sophomore course that will cover the areas of infectious and non-infectious diseases, nutrition, drug, alcohol, tobacco abuse, mental wellness, first aid, human reproduction, systems of the body, AIDS, and STDS. These topics will be covered because of their importance of mental, physical and social well-being.

R 0.5 Grade 10

Weight Training PE 302

This course is designed for high school students. They will perform stretching exercises in a warm-up period, perform basic plyometric form running exercises in a cardiovascular period, and perform general conditioning lifts, which concentrate on developing the overall individual strength.

E 1.0 Grade 9, 10, 11, 12

Advanced Weight Training PE 301

This course is designed for high school students who have successfully completed Basic Weight Training. Curriculum will emphasize more advanced exercises in the areas of plyometrics, weight training, speed, and agility to increase overall health.

E 1.0 Grade 10,11,12

FOREIGN LANGUAGE

Spanish I FL 110

Spanish I will provide students with a general introduction to the Spanish language, culture, and grammar.

E 1.0 Grade 9, 10, 11, 12

Spanish II FL 111

Spanish II builds upon knowledge gained in Spanish I. This course will also reinforce the skills learning in Spanish I: listening, speaking, reading and writing.

E 1.0 Grade 10, 11, 12 Prerequisites: Spanish I with a grade C or Higher

Spanish III FL112

This course builds upon knowledge gained in Spanish I & II. The course is a continuation and recycling of knowledge acquired in Spanish I and Spanish II, as well as an introduction to new vocabulary, structures, and expressions.

E 1.0 Grade 11, 12 Prerequisites: Successful completion of Spanish I & II

OTHER

Game Design

In this course students will learn how to develop games using the software Unity, from inception to completion. Students will create several unique games during the course and learn the tools needed to become a game developer.

Grade 10, 11, 12

Digital Art

Digital Art will explore digital art creation and techniques utilizing iPad and Mac technology. Software that will be explored include Photoshop, Illustrator, and a variety of compatible iPad apps. Students will create art in a variety of styles, from painting to graphic design.

Grades 10, 11, 12

Prerequisites: Art I

SWAT (Students Working to Advance Technology)

This course is a hands-on study of technology use in the classroom. Students will gain skills in Apple apps and devices as well as other technologies used by teachers and students at all grade levels. Students will use their skills and knowledge to help students and teachers across the district use the technology effectively.

Grades: 9, 10, 11, 12

Prerequisites: Application with Mrs. Orton

A+ PARTICIPANTS

SAM – Student Academic Mentoring ELE 300

This curriculum will include strategies of tutoring/mentoring of younger students in an academic setting. The course is available to students in the A+ Program.

E 0.5 Grade 12

Pass/Fail

VOCATIONAL/TECHNICAL EDUCATION

This educational program is available through the Kirksville Area Vocational/Technical Center. Students are transported for the morning sessions. Students may select from the following programs of study:

Auto Collision Auto Mechanics * PLTW Biomedical Construction Trades Digital Design & Graphics Child Care EMT - Basic

The school district will provide transportation to Kirksville. KCHS is allotted a designated number of openings in various classes. Students wishing to enroll in the Vo-Tech Programs should contact the counselor. Students may articulate credits in some of the courses to post-secondary programs at area community colleges. E 3.0 Grades 11, 12

*Project Lead the Way

HIGH SCHOOL ONLINE

The Missouri Virtual Instruction Program (MoVIP) online education courses are self-paced so students can move through the classes at a faster or slower pace if necessary. Missouri students can access a variety of courses through MoVIP that are not currently offered by their local school district. The only provider Knox County will use is Mizzou K12 Online.

R or E 0.5 Grades 11, 12

Requirements:

1. Students who are of junior or senior standing are eligible to enroll in online courses.
2. High school students must meet with the guidance counselor in order to enroll in high school online courses.
3. Online courses will not be offered during 1st or 7th hour.
4. Students will be assigned a specific supervisor, who will be a member of the Knox County R- 1 staff. Students will report to their direct supervisor's classroom during the period in which the online course takes place.
5. Once students have been enrolled in the online class, they may not choose to "drop" the course.
6. Online courses run on a semester basis. Most online courses begin later and end later than our local school calendar. It is the duty of the student to report their final semester grade to the high school office or guidance counselor. Students should present proof from the instructor (email, final grade sheet) that they have completed the course. Until a final grade has been recorded, students will receive an "Incomplete" for the online course on their grade card. After a reasonable amount of time, with no proof of completion, the student will receive an "F" as a final grade.
7. If a student fails to complete an online course or fails the semester by not completing the work, under normal circumstances, that student will not be allowed to enroll in any subsequent online course.
8. No online classes will be "weighted" for the purposes of calculating GPA or class rank.
9. The school district will not pay for online classes in which student receives "dual" credit from a postsecondary community college or 4-year college or university.