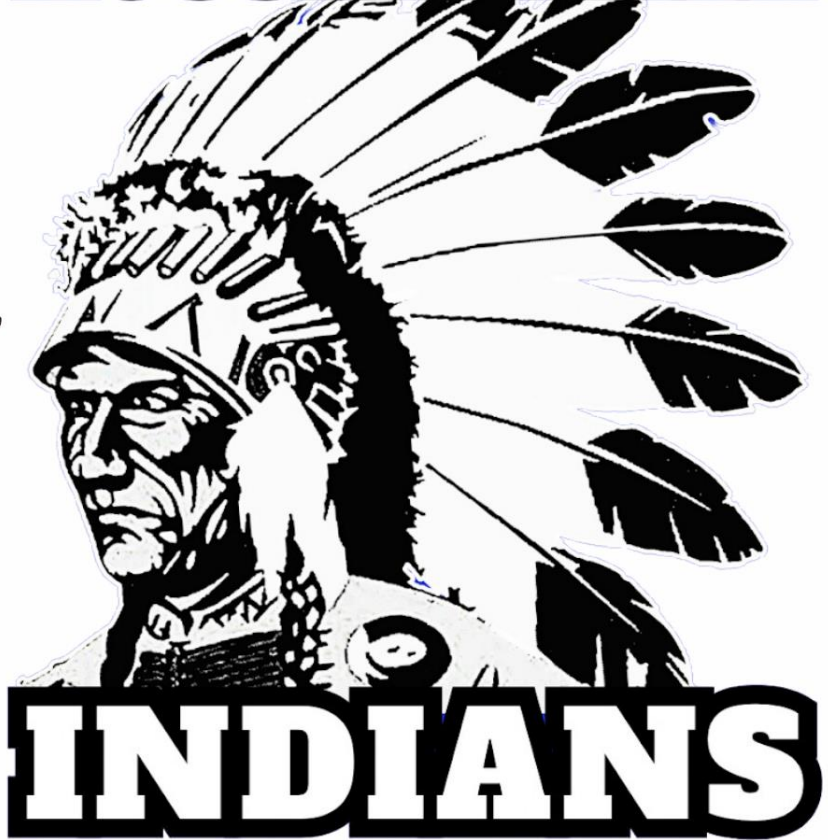


COURSE

Catalog

RUSSELLVILLE



MISSION STATEMENT:

Our mission is to educate all students and
develop the foundation of tomorrow's community
by expecting excellence today.

"Expecting Excellence"

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Graduation Requirements & Honors

One Diploma will be available - a general academic diploma, two certificates are available to receive: Career and Technical Education certificate and College Preparatory Certificate, in which will be marked on the Diploma upon graduation. The requirements for each are as follows:

Course	General Academic Diploma Number of Required Credits	Career and Technical Education Certificate Number of Required Credits	College Preparatory Certificate Number of Required Credits
Language Arts	4.0	4.0	4.0
Math	3.0	3.0	3.0 Algebra 1 in 8th grade will count towards CPC.
Science	3.0	3.0	3.0
Social Studies	3.0	3.0	3.0
Fine Arts	1.0	1.0	1.0
Health	0.5	0.5	0.5
Personal Finance	0.5	0.5	0.5
Practical Arts	1.0	4.0	1.0
Physical Education	1.0	1.0	1.0
Core Electives World Language, Math, Science, Social Studies	n/a	n/a	4.0
General Electives	8.0	5.0	4.0
Assessment Requirements	Pass US Citizenship, United States and Missouri Constitution tests, CPR, Alg 1 EOC, Bio EOC, Gov EOC, ELA 10 EOC Complete at least one CCR Assessment (WorkKeys, ASVAB, ACCUPLACER, ACT)	Pass US Citizenship, United States and Missouri Constitution tests, CPR, Alg 1 EOC, Bio EOC, Gov EOC, ELA 10 EOC Complete at least one CCR Assessment (WorkKeys, ASVAB, ACCUPLACER, ACT)	Pass US Citizenship, United States and Missouri Constitution tests, CPR, Alg 1 EOC, Bio EOC, Gov EOC, ELA 10 EOC Complete at least one CCR Assessment (WorkKeys, ASVAB, ACCUPLACER, ACT)
Additional Requirements	n/a	1 Industry Recognized Credential Certificate See CTE Guidelines	GPA of 3.0 or higher Complete ACT

Attendance Requirement	n/a	95%	95%
TOTAL TO GRADUATE	25 Credits	25 Credits	25 Credits

Sophomore, Junior, Senior Status

To qualify for sophomore status a student must have earned 5.5 credits prior to the beginning of the school year. To qualify for junior status, a student must have earned 11 credits prior to the beginning of the school year. To qualify for senior status a student must have earned 18 or more credits prior to the beginning of the school year.

Graduation Honors: Valedictorian, Salutatorian, Top Twenty Percent

In the interest of encouraging and recognizing outstanding academic achievement, a valedictorian and salutatorian will be selected for each high school graduating class. The valedictorian and salutatorian will be selected according to the following procedure:

1. The valedictorian will be the student with the highest grade point average as computed at the end of eight (8) semesters of high school work.
2. The salutatorian will be the student with the second highest grade point average as computed at the end of eight (8) semesters of high school work.
3. Senior students with Dual Credit Course work for their 8th semester will take the most current reported grade two days prior to graduation into account for weighted credit towards Valedictorian and Salutatorian.
4. In case of a tie for valedictorian, co-valedictorians will be honored.
5. In case of a tie for salutatorian, co-salutatorians will be honored.

To be eligible for valedictorian, salutatorian or top twenty percent honors, a student must be enrolled at Russellville High School in the beginning of the first semester of the junior year and shall be continuously enrolled on a full-time basis (8 attendance bearing classes) until the end of the second semester of the student's senior year. A student who graduates at the end of the seventh semester is not eligible to be recognized in the "top twenty percent" ranking for ceremonial purposes.

Honor Roll

To be eligible for Honor Roll recognition, a student must have a 3.0 average for the semester grading period. Recognition for the academic honor includes:

4.0+	Summa Cum Laude
3.5 - 3.99	Magna Cum Laude
3.0 - 3.49	Cum Laude

Earning Credit Toward Graduation

Cole R1 believes that every student should graduate and participate in commencement ceremonies. However, the manner in which each student acquires 25 units of credit for graduation may be different. While Cole R1 will continue to encourage graduation for all students, the high school will not allow students to be recognized with top twenty percent, salutatorian or valedictorian honors if students choose to either graduate early. In addition extra credits earned beyond the normal school day/summer school will not appear on the high school transcript. Students at risk of not graduating on time, may use credit recovery to get more credits than a normal school day. However, those classes will be marked as Pass/Fail and no GPA will be counted towards overall ranking.

1. Courses offered at Russellville High School
 - a. Students may earn credits toward graduation during the regular school day. One half credit may be earned per class per semester. During regular school hours, Russellville provides the opportunity for each student to earn 32 credits in four years. In order to graduate from Russellville, 25 units of credit must be earned.
 - b. Summer Credit Recovery - Cole R1 provides an opportunity for students to recover credit during the summer. If a student receives a 50- 59.5% in a course during the fall or spring academic year, that course will be recovered in summer school immediately following the academic year, or the student will be re-enrolled in the same course the following school year.
2. Courses offered through Other educational settings

Advanced Placement Classes (AP)

Advanced placement is a national program developed by the Educational Testing Service, which allows academically qualified students to pursue college-level studies while in high school. Students who desire the AP college credit are required to complete an Advanced Placement course (designated AP) and earn the required score on the examination. The cost for the 2025 test was \$97.00 per examination and the costs are the student's responsibility. Exams are graded on a scale of 1-5 and scored by the Educational Testing Service. It is the students responsibility to verify AP credit acceptance at their college choice. Although not all colleges or universities participate in the Advanced Placement program, each college or university determines which of these examination scores they will accept. Up-to-date information concerning university recognition policies can be found at (<http://www.collegeboard.org/ap>). Russellville High School offers AP Calculus, AP Biology, AP Language Composition, AP World History and AP Personal Finance and Business.

Advanced Placement (AP) courses are more difficult and require more homework than regular high school classes. Students enrolled in AP courses have the option to take the AP examination for which the course has prepared them. Exams are 3-4 hours in length and are offered annually on a nationally standardized date and time. Student commitment and payment to take the exam is required no later than the last day of first semester. The cost will be paid by the student. The college board will charge a \$40 late enrollment fee and \$40 fee for cancellation. AP classes are only offered weighted credit when taking the AP exam. Students that take the AP class but do not take the AP Exam will not be awarded weighted credit.

Information on taking these exams is available from the AP coordinator, Mrs. Danielle Greubel.

College Dual Credit Courses

Dual credit courses are postsecondary courses that are taught through online courses offered through Central Methodist University. These courses are not instructed by employees of Cole R1, but are taught by qualified instructors and employees of CMU through online instruction.

1. Arrangements in which Dual Credit courses are taught via online on the Russellville Campus.

The following guidelines will be followed:

- a. Dual Credit courses are postsecondary courses that are taught online but in seat supervision is mandatory to acquire attendance.
 - b. A junior or senior must have a cumulative 3.0 GPA in order to enroll for dual credit courses.
 - c. Students concurrently earn both high school and college credit. The student is awarded college credit immediately upon completing the course, and the course is placed on the transcript of the college offering the course. Students do not have to enroll in college after graduation to receive the credit.
 - d. To earn credit for dual credit classes it will be necessary to complete the entire course of study.
 - e. Grade of a “C” must be made in the class to count for college credit.
 - f. There is no refund if a dual credit class is failed.
 - g. These are offered as semester courses receiving .5 credit on high school transcript and earning 3 college credit hours.
2. To maintain good standing
 - a. Pursue timely graduation regular requirements for a diploma.
 - b. Maintain a 95 percent attendance rate.
 - c. Avoid suspension or expulsion.

Students who are interested in taking Dual Credit courses should contact the high school counselor for information about costs and placement testing. Each student will have a college transcript and grades will apply to a college GPA. Placement tests and scores are required for some classes. Please check with the guidance counselor for a current list of dual credit courses. A student may elect to enroll in the class for high school credit only. Any financial transactions will be arranged between the student/parent and Dual Credit institution.

Minimum College Admission Requirements:

English 4 Units (Two units emphasizing composition or writing skills are required)
Mathematics 3 Units (Algebra and beyond, i.e. algebra II, geometry, calculus, math analysis)
Social Studies 3 Unites (One of which must be a laboratory science)
Visual/Performing Arts 1 Unit (Fine arts courses in Visual Arts, music, theater)
Electives 3 Units (Selected from foreign language and/or combinations of the about course- 2 units of foreign language are strongly recommended)

These are the MINIMUM requirements for admission to public 4-year Missouri Colleges. It is important to check the requirements of each college to determine if their requirements exceed those shown above. For example, the University of Missouri requires two years of foreign language. There are activities

throughout the year to assist parents and students with the college selection and application process.

The following dual credit courses are offered through CMU online at Russellville High School:

Weighted Courses

Russellville High School will offer some courses with a weighted GPA for several reasons:

1. To encourage students to enroll and participate in challenging and rigorous coursework throughout their eight semesters of high school.
2. To reward students who chose to enroll in rigorous courses or who chose to complete courses of study to the highest levels offered with additional grade points.
3. To offer students a chance to recover Grade Points.
4. Because colleges do look at the number of advanced courses students take in high school.

Five grade points will be given to AP courses. Therefore a student, who receives a “B”, will receive a 4.0. This equates to earning an “A” in a regular course. Therefore, their GPA won’t be affected by a lower grade earning. Students taking a Dual Credit course online or in seat will receive a weighted grade on the 4.5 scale.

	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
Current	4.00	3.66	3.33	3.00	2.66	2.33	2.00	1.66	1.33	1.00	0.66	0.00
Weighted	4.50	4.17	3.83	3.50	3.17	2.83	2.50	2.17	1.83	1.50	1.17	0.00
AP	5.000	4.667	4.333	4.000	3.667	3.333	3.000	2.667	2.333	2.000	1.667	0.00

Early Graduation

Students who wish to graduate early must have successfully completed a minimum of six semesters at the secondary level and will be required to meet with the school counselor and submit written notification to the principal. The counselor will notify the student’s parents or guardians of the student’s decision if the student is a dependent. The student will receive a diploma if the student has met the Russellville graduation requirements. Any exception to the minimum six-semester completion requirement of early graduation must be granted by the Board of Education. The student who chooses early graduation will be allowed to participate in the spring graduation ceremonies, but will be considered an alumni for all other activities. Students who fail to complete their plan for early graduation and must return the following semester will be required to participate in a full academic schedule as outlined in board policy and campus procedures the principal or designee must approve any exception. In the event of discrepancy between an administrative procedure and a Board policy, the Board policy will take precedence.

Academic Athletic Eligibility Requirements

MSHSAA Eligibility

Any student participating in a school activity or sport sanctioned by the M.S.H.S.A.A. must receive a passing grade in seven classes (3.5 credits) The previous semester and be enrolled in seven classes (3.5 credits) the current semester. Spring credits will determine eligibility for fall.

NCAA Eligibility

NCAA Division I and II colleges can offer athletic scholarships; Division III colleges cannot. Before an athlete can play or receive an athletic scholarship at a Division I or II college, he/she must meet NCAA's academic requirements. An athlete wanting to go to a Division I college must have a 2.0 GPA in 16 core courses and the required SAT or ACT score. ACT/SAT Division I eligibility requirements are based on a sliding scale. The higher the core GPA, the lower the test score required. Recommendations for students include:

1. Contact a collegiate sporting program you are interested in as soon as possible to discuss NCAA requirements and to make sure they are taking the right courses. A list of approved core courses for Russellville high school is available online at www.ncaa.org (Initial eligibility clearinghouse).
2. Take the ACT no later than the spring of their junior year.
3. Register with NCAA Clearinghouse in the fall of their senior year, register online at <https://web3.ncaa.org/ecwr3/> call 800-638-3731.

NJCAA Eligibility

NJCAA Division I and II colleges can offer scholarships; Division III colleges cannot. There are no academic eligibility requirements for athletes entering junior colleges. See www.njcaa.org.

NAIA Eligibility

NAIA colleges can award full or partial scholarships. To play a sport or receive an athletic scholarship, an athlete must have 2 of the following 3 NAIA requirements:

1. An ACT composite score of 18 or an 860 on the SAT;
2. An overall 2.0 GPA
3. Graduate in the top half of his/her class. See www.naia.org

LANGUAGE ARTS

LANGUAGE ARTS I

Grade 9

1 credit

L.A. I is the first of four years of Language Arts credits. Language Arts provides instruction in reading, writing, grammatical skills, oral communication, and vocabulary expansion. The literature includes novels, short stories, poetry, and nonfiction. The varied writing experiences are designed to improve sentence structure, paragraph construction, and the overall ability to communicate in writing in multiple formats.

Prerequisite: NONE

LANGUAGE ARTS II

Grade 10

1 credit

L.A. II emphasizes reading comprehension, oral and written communication, grammatical skills, and vocabulary expansion. The literature will emphasize short stories, poetry, and novels. The varied writing experiences are designed to improve sentence structure, paragraph construction, and the overall ability to communicate in writing. ACT practice is highly encouraged.

Prerequisite: Language Arts I

LANGUAGE ARTS III

Grades 11

1 credit

The primary purpose of the class is to prepare the student for the kinds of writing and literature study required beyond high school. This course will focus on American Literature in a variety of forms. In addition, there will be plenty of writing opportunities including research.

Prerequisite: Language Arts II

Language Arts IV

Grades 12

1 credit

This course is designed to build the communication skills necessary for the post-secondary world of work. This will include writing resumes and formal letters, business writing, presentations, and practicing interviewing skills.

Prerequisite: Language Arts III

NOVELS (writing and reading intensive)

Grades 11-12

1 credit

Novels class is designed for juniors and seniors who enjoy reading. Students will read, discuss, write, and complete projects based on the novels read.

Prerequisites: Language Arts II

NOVELS II (writing and reading intensive)

Grades 12

1 credit

Weighted

Novels II is designed for seniors who enjoy reading. Students will read, discuss, write, and complete projects based on the novels read. This class will move at a quick pace.

Prerequisite: Language Arts III or Novels

Social Literacy: Systems of Influence and Law

Grades 11 - 12

1 Credit

Designed for students interested in law, psychology, or communications, this course treats the modern world as a high-level research project. We will dive into the rhetoric of Supreme Court rulings, the ethics

of emerging technology, and the behavioral science of group dynamics. You will replace traditional essays with legal briefs, white papers, and investigative reports, preparing you for the rigorous synthesis and analytical demands of university-level work. Learn to "read" the systems of power that others simply ignore

Prerequisite: LA1 & LA2

Dual Credit COLLEGE COMPOSITION I and II Grades 12 .5 credit

Weighted EN110 –Central Methodist – 3 credit hours per semester - Online

This course focuses on techniques of topic development, drafting, and revision to help students write clear, concise sentences, paragraphs, and essays. EN110 is also the study of grammar, syntax, and diction and their relationship to effective writing.

Prerequisite: Language Arts III or Novels

Dual Credit Public Speaking Grades 11 - 12 .5 credit

Weighted CT101 – State Fair Community College – 3 credit hours - In Seat Spring 2027

Students study the theory of speech communication to develop skills in public-speaking situations. Topics include the speech-communication process, ethics, listening, intercultural considerations, audience analysis, research, speech organization, language usage, presentation aids, and the types of public speaking. Students present introductory, impromptu, informative, and persuasive speeches as well as group presentations\ to improve their public-speaking skills.

Prerequisite: Language Arts II

AP LANGUAGE AND COMPOSITION - Weighted if exam is taken Grade 12 1 Credit

This college-level course is designed to help students gain the reading and writing skills needed for college success. This course is designed to provide students with challenging and rigorous assignments that would be comparable to a freshman level college composition class. The expectations for this course are high. Students will be expected to devote significant time in and out of class to complete assignments. The class will include a significant amount of non-fiction reading, writing, discussion, and AP English Language and Composition exam preparation. The AP exam would be required to receive a weighted credit.

Prerequisite: LA III, or Novels

SCIENCE

PHYSICAL SCIENCE Grade: 9 1 credit

This course investigates the fundamentals of chemistry and physics principles. First semester students will explore the structure and properties of matter, the nature of energy and its role in chemical reactions. Second semester study will include force and motion, matter, and energy.

Prerequisite: None

BIOLOGY I Grade: 10 1 credit

This course deals with book material on basic chemistry, ecology, evolution, cellular biology, genetics, cellular respiration, and photosynthesis. Laboratory study includes cellular transport, photosynthesis, and cellular respiration. Dissection is not a part of this course.

Prerequisite: Physical Science

BIOLOGY II Grades 11-12 1 credit

An advanced biology course that aims to enhance critical thinking skills using scientific research

literature. This course will also improve scientific literacy by creating precise lab reports. The fall semester will have a heavy ecological emphasis focusing on animals and plants and genetics. The spring semester will be geared toward preparing students for anatomy and physiology looking at the anatomical structures of humans following a pg dissection.

Prerequisite: Biology I

CHEMISTRY I **Grades 10-12** **1 credit**

Emphasis will be on the principles of conservation of mass and energy, an understanding of the elements and their reactivity, and knowledge of basic laboratory procedure. Two and three day lab experiments will be performed with a detailed lab report as a conclusion. Drawings and model assembly will be included. This course is an advanced science course requiring written work and significant calculations. Course employs lab safety and lab techniques, use of both extremely small and large numbers, recognize and describe matter at both the macroscopic level and microscopic level, interpretation of the periodic table, and stoichiometric calculations.

Prerequisite: 'C' OR BETTER IN Alg. I, & 'C' or better in Physical Science, available to sophomores with science and math department permission.

CHEMISTRY II - *Weighted* **Grades 11-12** **1 credit**

This advanced course employs lab safety and lab techniques, use of significant digits and scientific notation, atomic theory, interpretation of the periodic table, ability to identify bonds, molecular geometry, electron orbital configuration, types of chemical reactions, law of conservation of mass, interpretation and use of gas laws, and discuss organic and environmental chemistry, thinking about the chemical reactions that happen in the natural world.

Prerequisite: 'C' OR BETTER in Chemistry I.

PHYSICS - *Weighted* (Not offered in 26-27) **Grades 11-12** **1 credit**

A laboratory-based course where students learn about motion, momentum, energy, gravity, linear, circular, and rotational motion, waves, sound, light, electricity, and magnetism. This course is an advanced science course requiring extensive math and conceptual labs.

Prerequisites: 'C' or better in Alg. 2 & 'B' or better in Physical Science second semester.

HUMAN ANATOMY & PHYSIOLOGY- *Weighted* **Grades 11-12** **1 credit**

The content of this course includes an overall review of the cellular physiology followed by an in-depth study of the structure and function of the biological systems as found in the human body. It is recommended only students interested in a related field for college or desiring a greater understanding of the human body enroll in this course.

Prerequisite: 'C' or better in Biology I

EARTH SCIENCE (OFFERED IN 26-27) **Grades 11-12** **1 credit**

This is an entry level earth science course which will include the investigation and study of the interactions between the four major Earth's spheres in order to explain Earth's formation, processes, history, landscapes, how and why Earth changes over time. Students will participate in laboratory exercises, small group activities, web based investigations, class discussions, projects, and research.

Prerequisite: Biology I

ENVIRONMENTAL SCIENCE (OFFERED IN 27-28) **Grades 11-12** **1 credit**

This is an entry level environmental science course which will include recycling and other hands-on activities. Specifically, this course examines the risks associated with growth in a developing world;

environmental impact of population growth on natural resources; water resource uses; and renewable and nonrenewable sources for power generation.

Prerequisite: Biology I

ASTRONOMY (OFFERED IN 28-29)

Grades 11-12

1 credit

Astronomy is the scientific study of the contents of the entire Universe. This course will provide the student with a study of the universe and the conditions, properties, and motions of bodies in space. The content includes, historical astronomy, astronomical instruments, the celestial sphere, the solar system, the earth as a system in space, the earth/moon system, the sun as a star, and stars.

Prerequisite: Biology I

AP BIOLOGY- *Weighted if exam is taken* Grades 10 (with approval) - 12

1 credit

Organisms are studied from their behavioral, ecological, heredity and evolutionary perspectives. Topics include examination of the human body in health and disease; the relevance of biology to contemporary issues in human society; and introduction to environmental science and ecology with emphasis on the interrelationships of living and nonliving things in ecosystems and how disruptions of these relationships result in environmental problems.

Prerequisite: A in Physical Science or B in Biology

MATHEMATICS

ALGEBRA I FOUNDATIONS

Grade 9

1 credit

Students will learn properties of algebra. They will perform different operations with rational numbers. They will solve linear equations and inequalities. They will learn to graph on a coordinate plane and learn about slope.

ALGEBRA I

Grades 9-10

1 credit

In this course, students learn algebraic concepts such as number systems, operations, and forms. Students engage in activities which require them to identify, analyze, and solve problems involving the following topics: number sentences in the forms $ax+b=c$ and $ax+b=cx+d$, number properties and formulas, order of operations, graphs of lines, slopes, and parabolas, exponents, functions, functional notation and function language. The course emphasizes the need for students to comprehend the abstract and symbolic nature of algebra.

GEOMETRY

Grades 9-12

1 credit

Students learn foundational geometry concepts from synthetic algebraic, and industry perspectives. Students engage in activities which require them to identify, analyze, and solve problems involving the following topics: segments, angles, triangles, quadrilaterals, polyhedral, circles, spheres, transformations, if-then statements, and proofs. Course work includes the study of how geometry relates to algebra, and how geometry concepts are applied in industrial and technological career fields. This course emphasizes the need for students to comprehend the abstract and symbolic nature of geometry.

Prerequisite: Algebra I

ALGEBRA II

Grades 10-12

1 credit

In this course, students learn advanced algebraic number systems, operations, and forms. They engage in activities which require them to communicate using the language of algebra, and explore variations, graphs, linear relations, systems, parabolas, quadratic relations, polynomials, functions, powers, roots,

exponents, and logarithms. The course emphasizes the need for students to comprehend the abstract and symbolic nature of complex algebraic concepts.

Prerequisite: Algebra I.

MATH ANALYSIS

Grades 11-12

1 credit

Areas of study for this course will include exponential, polynomial, rational, logarithmic and piecewise functions, along with trigonometric functions and their inverses. Students will investigate and explore mathematical ideas using methods that will help them gain a deep understanding of fundamental concepts, develop multiple strategies for analyzing complex situations, and acquire appropriate technological skills. Students will analyze situations verbally, numerically, graphically, and symbolically. While mathematical skills will be developed, teaching will focus on building deep understanding of concepts that will enable students to apply mathematical skills and make meaningful connections to life's experiences.

Prerequisite: Algebra II

AP Calculus-*Weighted if exam is taken*

Grades 11-12

1 credit

AP Calculus AB is equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. The AP course covers topics in these areas: concepts and skills of limits, derivatives, integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions. At the conclusion of the course students will sit through the AP exam and a successful score on the AP exam will give the student Calculus I credit at the college level.

Prerequisite: Trigonometry/Math Analysis with a recommended B average, or higher.

Dual Credit COLLEGE ALGEBRA-*Weighted*

Grades 12

1 credit

Truman State University MATH156 – 3 credit hours - **IN SEAT**

A study of equations and inequalities, functions and graphs, systems of equations and inequalities, polynomials and their graphs and logarithmic functions. Students will earn both a high school and credit and college credit. (with a grade of a C or higher).

**Prerequisite: ACT Math subscore > 21,
Students should have taken Math Analysis or
Algebra 2 with a B or higher.**

SOCIAL STUDIES

WORLD HISTORY

Grades 10

1 credit

This course is a survey of human history from the period of the Middle Ages to modern day. . The arts, government, economics, religion and the social movements that have shaped our world will be studied.

AMERICAN GOVERNMENT

Grade 11

1 credit

This course is the study of the three levels of government (local, state, and national). Among the course objectives are instruction in the three branches of government and in the rights and responsibilities of a U.S. citizen. Students will take the U.S. Constitution Test and Missouri Constitution Test as a part of this

course.

AMERICAN HISTORY

Grade 12

1 credit

This is the study of the historical development of the U.S. It will give an understanding of the democratic ideals which have formed our American system of government. Special attention will be given to political, social and economic trends. Students will do independent reading and writing.

ANCIENT HISTORY

Grade 10-12

1 credit

This course focuses on the study of major events, individuals, ideas, and changes in the ancient world from the Neolithic Revolution through the Roman Empire. An emphasis will be placed on ancient Egypt, the ancient Middle East, ancient India, ancient China, ancient Greece, and ancient Rome. Ultimately, we will be studying people, their beliefs, their actions, and the results of their actions.

WORLD GEOGRAPHY (Not offered in 26-27)

Grade 9-12

.5 credit

This course is a study of people, places and environment from a physical and cultural perspective. Through a variety of classroom activities, students will gain an appreciation and understanding of the interdependent world in which they live. Students will analyze and evaluate the connection between their local and global communities. The course will emphasize the practical and responsible application of geography to life situations.

HISTORY THROUGH SPORTS (Not offered in 26-27) Grade 10-12

.5 credit

This elective class will examine the development of sports in America. The historical study will focus on helping students gain a better understanding of the inner relationship that sport has on social, economic, cultural and political forces that are at work in the United States as well as the world. The course will examine the historical context as well as the significance of gender, race, ethnicity and social class.

CURRENT EVENTS (Not offered in 26-27)

Grade 10-12

.5 credit

Using current events, this elective course focuses on world and local issues that affect students' everyday lives, such as economics, government and conflict. This course uses newspapers, online media, cartoons, and newscasts to support class discussion.

Dual Credit PSYCHOLOGY- *Weighted*

Grades 11-12

.5 credit

PY101 – General Psychology- SFCC – 3 credit hours - Online- **In Seat for Fall 2026**

An introduction to psychology, this course essentially deals with how people manage to cope with various demands and pressures of daily life. In addition, students deal with the theories behind various psychotherapies and mental illness. It will also cover personality, motivation, emotions, learning and memory. Course evaluation is derived from class and homework assignments.

Dual Credit SOCIOLOGY -*Weighted*

(Not offered in 26-27)

Grades 11-12

.5 credit

SO101 – Introduction to Sociology - Central Methodist – 3 credit hours - Online

A study of social interaction and its products; culture, personality, social groups, institutions, and social change.

AP US History - *Weighted upon taking exam* Grades 10-12

1 Credit

In AP U.S. History, students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change. The course also provides eight themes that students explore throughout the course in order to make connections among historical developments in different times and places: American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social

structures.

**Prerequisite: An “A” average in World History
or/and teacher recommendation.**

AGRICULTURE

The Agriculture program is designed to prepare students for future academic and career paths by offering technical courses designed to develop practical production and management skills. Students are immersed in an educational environment which offers opportunities for hands-on experience and a sound foundation for a career in agriculture/natural resources.

Membership in the Russellville FFA Chapter is intracurricular with the agriculture education program. This means that all students will be members of the FFA and certain dues will apply.

AGRICULTURAL SCIENCE I

Grade 9

1 credit

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. FFA membership is required and FFA activities are conducted in class.

AGRICULTURAL SCIENCE II

Grade 10

1 credit

A course designed for instruction in animal agriculture components including animal species, health, and nutrition, plant management pertaining to the forestry industry, parliamentary procedure, and additional instruction in agricultural mechanics, career development, leadership, and supervised agricultural experience. FFA membership is required and FFA activities are conducted in class.

Prerequisite: Ag Science I

FLORAL DESIGN

Grade 10-12

.5 credit

credit also counts as Fine Art

This semester-long course will offer students the opportunity to learn plant identification, floral maintenance and running a floral shop. Students will learn principles of design, design arrangements, sales, careers, leadership, record keeping, and have a supervised agricultural experience. Students will also participate in the National FFA Organization and learn much needed leadership skills. FFA membership is required and FFA activities are conducted in class.

Prerequisite: Ag Science II

GREENHOUSE

Grades 10-12

.5 credit

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. Students will also grow plants for the greenhouse sale in the spring. FFA membership is required and FFA activities are conducted in class.
Prerequisite: Ag Science II

AG CONSTRUCTION – METALS I & II

Grades 11-12

1 credit

This course utilizes metal working in the development and construction of major metal shop projects. Metals I will consist of eight tests over various metalworking practices, a small and medium project. Metals II will consist of three to four tests over advanced metalworking practices and several medium or two large projects. Metals II students must apply for the class with a list of projects that they plan to build during the school year before they are allowed in the class. FFA membership is required and FFA activities are conducted in class.

Prerequisite: Ag Science II

AG WOODS

Grade 11-12

1 credit

This course utilizes wood working in the development and construction of major woodshop projects. Students will be required to build a small, medium and large project in class in order to receive credit for the class. FFA membership is required and FFA activities are conducted in class.

Prerequisite: Ag Science II

ANIMAL SCIENCE**Grade 11-12****1 credit**

Advanced study in animal production, management, marketing, nutrition, breeding, production records, selection, animal health, waste management, and biotechnology may be included in this course. FFA membership is required and FFA activities are conducted in class.

Prerequisite: Ag Science II**Dual Credit AG BUSINESS - *Weighted* In seat****Grades 10-12****.5 credit**

Dual Credit. This course will help students develop the skills needed to participate in a sales type career in a project based context. Students will build their understanding of sales and complete a capstone project. Students will also start their own cooperative as a class and work to potentially turn a profit and sell various made items This class also covers budgeting, economics, and today's agriculture issues. This is a dual credit class offered through State Fair Community College. FFA membership is required and FFA activities are conducted in class.

Prerequisite: Ag Science II**AG MECHANICS****Grades 11-12****.5 credit**

This course includes electrical wiring, electrical motors, concrete masonry, plumbing and sewage disposal, farm fences, product handling and processing equipment, and farm buildings. FFA membership is required and FFA activities are conducted in class.

Prerequisite: Ag Science II**PERSONAL AG FINANCE (Not offered in 26-27)****Grades 10-12****.5 credit***Counts as Personal Finance Credit*

This semester course is designed to inform the student on money making decisions for their future. Students learn about budgeting, credit scores and building credit, insurance, taxes, investing and retirement. FFA membership is required and FFA activities are conducted in class.

Prerequisite: Ag Science II**CDE ENHANCEMENT****Grades 11-12****.5 credit**

This spring semester course is a general agriculture knowledge class. Students will learn specific agriculture objectives when they choose a particular Career Development Event or Leadership Development Event over the course of the semester. FFA membership is required and FFA activities are conducted in class.

Prerequisite: Ag Science I/II**FOOD SCIENCE****Grades 10-12****.5 credit**

This semester course is designed to learn the relationship between science, food and nutrition. Application of food science for the selection, preservation, processing, packaging, distribution and use of safe food will be learned. FFA membership is required and FFA activities are conducted in class.

Prerequisite: Ag Science II**SAE COOPERATIVE****Grades 11-12****2 Credits (3-4 Hours off campus)**

The purpose of this program is to assist students in being prepared to meet the demands of the workplace and to tie the workplace to the learning environment. The program will allow students to leave school for employment that pertains to their career path. Students will have completed all prerequisites and be simultaneously enrolled in Agriculture upper-level class. Students will be enrolled in 4 hours of in seat instruction. Students will be required to provide verification of their hours worked via paystub each week. The employer will be asked to complete an evaluation of the student employee to assist in determining the course grade.

Prerequisite Ag 1 and Ag 2

ACCOUNTING**Grades 10-12****.5 Credit**

Students will delve into the world of financial record-keeping, analysis, and reporting. This course provides a comprehensive introduction to fundamental accounting principles and practices, including journal entries, financial statements, and basic taxation concepts. Students will learn how to analyze and interpret financial data and gain insights into the importance of financial literacy in professional settings. Throughout the course, hands-on activities and real-world case studies will be integrated to enhance understanding and practical application of accounting concepts.

SPORTS AND ENTERTAINMENT MARKETING (Not offered in 26-27) Grades 10-12 .5 Credit

Students will learn how companies promote products and services in the fast-paced sports and entertainment industries. From creating advertising campaigns for major events to studying the impact of celebrity endorsements, students will develop valuable skills in marketing strategy, consumer behavior, and brand management.

INTERNATIONAL BUSINESS (Not offered in 26-27) Grades 9-12**.5 Credit**

This course provides a comprehensive foundation in international business, equipping students with knowledge and strategies to navigate the complexities of global trade, finance, and cultural influences. Through case studies, real-world examples, and interactive discussions, students will gain practical insights into the challenges and opportunities of operating in global marketplace. The curriculum is designed to foster critical thinking and problem-solving skills, preparing students for careers in international business and global commerce.

AP BUSINESS WITH PERSONAL FINANCE Grades 10-12**.5 Credit**

AP Business with Personal Finance is an introductory, college level business and personal finance course. Students explore the business disciplines of entrepreneurship, marketing, finance, accounting, and management through real world business application, case studies, and project-based learning. In addition, students learn and apply all the National Standards for Personal Financial Education created by the Council for Economic Education and the JumpStart coalition for Personal Financial Literacy, fulfilling the Personal Finance graduating requirement.

Prerequisite: Any given Business Course**SBE Cooperative****Grades 11-12****2 Credits (3-4 Hours off campus)**

The purpose of this program is to assist students in being prepared to meet the demands of the workplace and to tie the workplace to the learning environment. The program will allow students to leave school for employment that pertains to their career path. Students will have completed all prerequisites and be simultaneously enrolled in Business upper-level class. Students will be enrolled in 4 hours of in seat instruction. Students will be required to provide verification of their hours worked via paystub each week. The employer will be asked to complete an evaluation of the student employee to assist in determining the course grade.

Prerequisite Intro to Business and Computer Applications

VISUAL ARTS

ART I

Grades 9-10

1 credit

This course serves three purposes - to give a foundation for further art courses, to meet the fine art requirement for graduation, and to create an awareness and appreciation for art expression. This course uses a “flipped classroom” structure, all materials and information will be given to succeed. Students' creativity should be strengthened as they explore each medium and technique. Supply list for this course: Wooden Pencil and Chromebook.

ART II

Grades 10-11

1 credit

course is designed to further develop the fundamentals of art and their application with more experience in the use of art mediums. This class uses a “flipped classroom” structure as students explore different mediums and techniques to produce art, they will also learn time management. Once techniques have been mastered they will further explore the medium of their choice. Supply list for this course: Wooden pencils and Chromebook. .

Prerequisite: Art I

Art III

Grades 11-12

1 credit

This course is designed to further develop a student’s specific expression of interests. It is encouraged for students to focus on and further explore the specific mediums and techniques they enjoy and excel in. Students will be allowed to build their own curriculum and focus on their particular styles while meeting specific deadlines and requirements. The premise of this class is for students to discover their niche and hone their skills.

Supply List: is determined by the student’s medium of focus. The basics supplies will be provided students may need to purchase their own canvases.

Prerequisite Art I & II

SENIOR PORTFOLIO

Grade 12

1 credit

This course is for students wanting to build their experience and portfolio for after Graduation. Students who plan to attend college with a degree in the arts or begin the workforce with experience in design are to use this class to build their resume. Students will continue working in their preferred mediums and honing their craft while organizing and archiving their pieces for future use. Students will build their own curriculum and be required to meet deadlines.

Supply List: Supply List: is determined by the student’s medium of focus. The basics supplies will be provided students may need to purchase their own canvases.

Prerequisite Art I, II, & III

DIGITAL ART

Grades 10-12

1 credit

This is an introductory course that focuses on digital media. This course will focus on using the elements and principles of design to create and apply art in everyday aspects such as marketing and photography. Students will use a variety of programs to develop techniques for digital media. Supply list for this course: Chromebook or another device. Headphones and wireless mouse (optional).

Prerequisite Art I

DIGITAL ART II

Grades 10-12

1 credit

This course is designed to further develop the fundamentals of digital media. Students will focus on compositions, design, and layouts in the everyday aspects of marketing and photography. Students will use a variety of programs to further develop strategies and techniques in digital media for real world application. Supply list for this course: Chromebook or another device. Headphones and wireless mouse (optional).

3D ART (Not offered in 26-27)**Grades 10-12****1 credit**

This course offers the opportunity of working with three-dimensional art forms. A variety of mediums will be explored with an emphasis on repurposing materials. Students will use deductive reasoning to create their own process of building armatures and substructures. Individual creativity and development is encouraged.

Supplies Needed: Recycled material such as containers, newspaper, and cardboard. Duct Tape.

Prerequisite: Art 1

PERFORMING ARTS

HIGH SCHOOL BAND**Grades 9-12****1 credit**

The varsity band is primarily concerned with performance; however, the daily practice schedule includes drills on basic fundamentals, improvement of tone, technique, style, and interpretation. Activities and practice sessions are scheduled throughout the entire calendar year. During the summer, there will be regular practice sessions and multiple performances. Marching band practice starts in July and continues throughout the fall semester, with performances locally and out of town. Concert band and pep band activities are scheduled throughout the remainder of the school year.

This is a full course of study. Prospective students must conference with the director of bands prior to enrolling.

GUITAR I**Grades 9-12****1 credit**

This one-year course is designed for students with no previous guitar experience. Students will receive guidance and direction in solving problems related to playing the guitar at a beginning level and will learn many of the different styles, skills and techniques required to become a successful guitarist.

GUITAR II**Grades 9-12****1 credit**

This one-year course is designed for students with previous guitar experience. Students will receive guidance and direction in solving problems related to playing the guitar on an intermediate level and will learn many of the different styles, skills, and techniques required to become a successful musician.

MUSIC APPRECIATION (Not offered in 26-27) Grades 9-12**1 credit**

Music Appreciation is a survey course designed to take the student through the history of music, from the Middle Ages and Renaissance through the Romantic and Modern time periods, and everything in between. Students will learn basic music theory in relation to history

PHYSICAL EDUCATION

TEAM SPORTS**Grades 9-10****0.5 or 1 credit**

Students will study and participate in such teamwork activities as volleyball, touch football, softball, hockey, basketball, soccer, and bound ball.

BODY CONDITIONING**Grades 9-12****0.5 or 1 credit**

Students will participate in a workout routine designed to improve his/her personal level of fitness and muscle tone. Students will be instructed in the proper methods of weight lifting. Students will also participate in athletic development activities such as change of direction drills, running mechanics and speed drills.

WALKING FOR FITNESS**Grades 9-12****0.5 or 1 credit**

Students will learn how to use walking as a means of healthy exercise to maintain a healthy lifestyle. Emphasis is placed on developing an individual level of walking performance. Practical applications of principles of exercise and the components of an effective cardiovascular workout are used in achieving fitness through a walking program.

HEALTH**Grade 10-12****.5 credit**

This is a required course for graduation. Students will be provided information which will promote positive decisions affecting their physical well-being. Topics will include chemical substances, cardiovascular resuscitation (CPR), nutrition, sexually transmitted diseases (STD's) and other current health issues.

FOREIGN LANGUAGE

**SPANISH I
credit****Grades 9-12****1**

Spanish is an introductory course to the Spanish language and culture. On this level, speaking, understanding, reading, and writing are emphasized, although the major emphasis is on speaking and understanding. Through a series of basic dialogues in the textbook, the student becomes familiar with pronunciation and intonation. These dialogues are then incorporated into conversations throughout the chapters.

SPANISH II**Grades 10-12****1 credit**

Spanish II is a continuation of Spanish I. It continues to focus on speaking, understanding, reading, and writing. More emphasis is beginning to be placed on the culture of the Hispanic country and its people.

Prerequisite: Spanish I**SPANISH III & IV - *Weighted*****Grades 11-12****1 credit**

Spanish III and Spanish IV are weighted classes. This means a student needs to work above and beyond to do exceptional work. Also, these are fast paced classes and deadlines must be met. This curriculum meets all the learning objectives set forth by the College Board and is based upon the three modes of communication: Interpretive, Interpersonal, and Presentational. There will be bell work, writing, reading, checks for understanding, listening activities, and presentations. These classes engage students with power points, visuals, games, songs, relevant topics and more activities that are engaging and relevant to everyday life.

Prerequisite: Spanish

NON-CORE ELECTIVE

PERSONAL FINANCE

Grades 10-12

.5 credit

This is a required course for graduation if not taking AP Business with Personal Finance.

Understanding and managing personal finances are key to one's future financial success. This 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.

YEARBOOK

Grades 11-12

1 credit

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

Prerequisite: Application process and advisor approval required

A+ MENTORING

Grades 12

.5 credit (One Semester Only)

This course is a senior level course designed to give students valuable skills in communication, educational process and student mentoring. It will allow students to acquire tutoring hours which are required for the A+ program.

Students must have an A+ contract on file, be meeting A+ requirements and earning a 2.5 or higher GPA in order to participate in A+ mentoring. This is a non-repeating course. To take A+ more than one semester it must be approved by the A+ Coordinator

CADET TEACHING

Grades 12

.5 credit (One Semester Only)

Cadet Teaching is a senior only course. It is a program designed for students who are seriously considering teaching as a profession. This course is an elective course that gives students the opportunity and experience of working in a classroom setting. Students must be academically on track and have good attendance to take this course. ***This course is not the same as A+.*** Students will be expected to write weekly reflections, formulate a lesson plan, and deliver a lesson plan to a class of students. The objectives of Cadet Teaching are: To encourage students to explore their interests in the teaching profession. To aid students in evaluating themselves and their abilities as it relates to being a successful teacher. To aid students in identifying the age range of students or subjects they would be interested in teaching. To gain insight into the inner workings of a class room and dealing. To encourage students to know the personal satisfaction of their responsibility in guiding and teaching students.

Students must have a "C" average, good school attendance, and be seriously considering teaching as a career choice. To take Cadet Teaching more than one semester it must be approved by the Cadet Teaching Coordinator.

SCHOOL TO WORK/SAE/SBE (Ag or Business Students)

Grades 11 & 12

1-2 credits

The purpose of this program is to assist students in being prepared to meet the demands of the workplace and to tie the workplace to the learning environment. The program will allow seniors to leave school for employment that pertains to their career path. Students will be required to provide verification of their hours worked via a paystub each week. The employer will be asked to complete an evaluation of the student employee to assist in determining the course grade. **Students will also have coursework that will be due every two weeks. Students must be enrolled in at least 4 hours of in seat instruction.**



Career and Technical Course Work 3 credits

A career goal or objective directed toward employment or continuing education is highly recommended to enroll in any of these programs. All Nichols classes are by approval only. Enrollment is done through the high school counseling office.

All courses at Nichols Career Center offer 3 credits toward high school graduation each year. RHS students must apply to attend NCC during the spring of the year prior to their attendance. Requirements for attendance include being on-track to graduate in four years of high school, having good attendance, good disciplinary report, and a career goal appropriate to a NCC program.

Students enrolled in a NCC program will enroll in 3 morning classes at RHS. They are released to go to Nichols after the 3rd hour class. Students will have lunch before leaving for Nichols and must ride the bus to and from Nichols Career Center unless their specific program requires personal transportation. Permission to drive must be obtained through the office.

Articulated Credit

Nichols Career Center has developed articulation agreements with State Fair Community College, Linn State Technical College, Ozark Technical Community College and several art institutes. These agreements allow students who meet certain criteria at their high school to obtain college credit at these institutions. Details and restrictions may be obtained from the program instructor, the counseling office at Nichols Career Center, or the cooperating institution.

Auto Collision Technology I/II

Grades 11-12

Skills are achieved through classroom studies and hands-on activities in a well-equipped shop area. Basic skills developed include safety; fundamentals of collision repair; auto glass; part replacement; cutting metal; plastic repair; welding; straightening body panels; masking; refinishing; and detailing. Students receive a Missouri competency profile that will indicate to potential employers and post-secondary institutions the student's ability and skills achieved throughout the two-year course. Attendance and effort are major factors of the student's grade. This program is ASE (Automotive Service Excellence) certified. Articulation Agreement.

Automotive Technology I/II 12

Grades 11-12

This two-year course is an in-depth study into automotive repair and diagnosis, leading to a career in the automotive field. Each year is designed to "stand alone." One year's course of study will include engine performance, air conditioning, and brakes. The next year students will study electrical systems, suspension, and steering. Skills that students learn throughout school are utilized in this course: math and science skills to solve automotive repair problems and communication skills in relating problems and solutions to customers and supervisors. The curriculum is computer based, and students learn a hands-on skill with hands-on learning in addition to written work. The program is ASE (Automotive Service Excellence) certified. Articulation Agreement.

Building Trades I/II **12**

Grades 11-

This course is designed for students wishing to enter one of the building trades such as framing, drywall, roofing, concrete work, painting, or other related trades. The first year is an introductory course designed to teach the basics of carpentry. Areas of study include the following: safety, hand and power tools, plans, specification and codes, footing and foundations, concrete placing and finishing, floor, wall, ceiling, and roof framing, roofing, windows and exterior doors, exterior wall finishing, doors and interior trim, painting, staining, and finishing, and cabinet making. Students can earn a 10-hour OSHA card. The main class project of second year students is the construction of a five to six room house done by the students in as much as building codes permit. Students may qualify for the Carpenter's Apprenticeship union at a 55%, 60%, or 65% level of journeyman wages. For selected students a school-to-work and internship is offered. Scholarships are available from the HBA (Home Builders Association). The program is accredited by the AGC (Association of General Contractors). Articulation agreement.

Computer Technology I/II

Grade 11-12

(Prerequisite – “B” or better in Algebra I or a subsequent course such as Geometry)

This program provides students the opportunity to acquire real-world skills dealing with computers by using application software, the Internet, hardware and software installation and troubleshooting, networking and programming. First-year students will enhance their problem solving skills by learning the Java programming language and such markup languages as HTML, DHTML, and JavaScript. In addition, students will receive training in network creation, usage, and manipulation. While considerable time is dedicated to “hands-on” learning activities, multiple learning styles are addressed through the program. Second-year students will enhance their problem solving skills by learning advanced topics in the Java programming language. Web design and technologies will be expanded upon using the Adobe suite of products including PhotoShop, DreamWeaver, and Flash. In addition, students will receive advanced training in network creation, manipulation, and server administration. Those considering this course should know the fundamentals of Algebra and have basic computer skills that include knowledge of word-processing and spreadsheet software such as MS Word and Excel. Articulation agreement.

Culinary Arts I/II

Grade 11-12

Culinary Arts I is the first year of a two-year program of study in the restaurant and hospitality field. Classroom instruction and hands-on training are combined to give the student full benefit of the career and technical education program. Students work in an instructor-supervised kitchen practicing, preparing, and serving foods. They also cater luncheons and banquets as part of the hands-on training. Food and equipment safety are stressed in the culinary arts program. Pre-requisite: Foods I (if offered at sending school)

Culinary Arts II is the second year of a two-year program of study in the restaurant and hospitality field. Classroom instruction and hands-on training are combined to give the student full benefit of the career and technical education program. Students work in an instructor-supervised kitchen practicing, preparing, and serving foods. They also cater luncheons and banquets as part of the hands-on training. Food and equipment safety are stressed in the culinary arts program. (*Pre-requisite: Culinary Arts I*)

Graphic Communications I/II

Grades 11-12

Students gain hands-on experience in the computer and printing lab, learning the various aspects of the graphic communications field. Students will illustrate and design artwork dedicated to design and layout using desktop publishing (InDesign), illustrating (Illustrator), and digital imaging and animation (Photoshop). Students will prepare layouts to be printed on paper, vinyl and textiles. These units include typography, design, color theory, screen printing (t-shirts), vinyl sign making, offset press and bindery. Second year students will build on skills from year one to create advanced projects. Problem solving and communication with the client are stressed. During the second year the majority of the course is hands on, and students are allowed to specialize in their area of interest. Upon completion of year two, students will

be ready to enter the job market at an entry level or pursue a degree in the diverse field of graphics.
Articulation Agreement

Health Sciences

Grade 12

This is a one-year program for senior students who wish to pursue a career in the health field. Students will be introduced to specialized areas through guest speakers and job shadowing in health-related occupations. Basic anatomy and physiology will be included in the curriculum. Students may become certified as a nursing assistant (CNA) provided they meet the necessary requirements before graduation. Clinical experience will be obtained at local hospitals and nursing homes during the second semester. Students must meet all competency requirements, demonstrates appropriate clinical conduct, and maintain an 80% average per term before moving to the clinical portion of the class. Students must also provide their own transportation to the clinical sites. Suggestion: Student should have previous courses in life sciences.

Heating, Air Conditioning and Refrigeration I/II Grades 11-12

This class is designed to provide occupational and technical information related to the heating and cooling industry. Basic skills taught in this class are fundamentals of refrigeration, installation and service troubleshooting of residential air conditioners and furnaces, sheet metal fabrication, and electrical wiring of both house wiring circuits and control wiring circuits. The second year of the class is designed to provide the students with advanced troubleshooting and problem-solving skills for all types of furnaces and air conditioners. Fundamentals of commercial refrigeration, commercial air conditioners and furnaces, and advanced sheet metal fabrication are also taught. Students prepare and test for certification of section 608 of the Clean Air Act. Articulation Agreement.

Mechatronics

Grades 11-12

(Prerequisite - Algebra I with a C or better and Computer Applications I.)

The focus of the Mechatronics is a multidisciplinary field of science that includes a combination of mechanical engineering, electronics, computer engineering, telecommunications engineering, systems engineering and control engineering. As technology advances, the subfields of engineering multiply and adapt. Mechatronics' aim is a design process that unifies these subfields. Originally, mechatronics just included the combination of mechanics and electronics, hence the word is a combination of mechanics and electronics; however, as technical systems have become more and more complex the definition has been broadened to include more technical areas. We also include robotics, 3D design in Autocad, 3D printing, Pneumatics design and control, Programmable logic controller, and much, much more.

Opportunities in Dual Credit with State Fair Community College, Articulation agreement with State Technical College.

Welding I/II Grades 11-12

Instruction will be given in gas, stick, MIG, and plasma cutting and welding processes. Practice in the preparation of metal for welding and correct application of the welding rods will be included. Students will work on projects after completing welding competencies set for that year. During the second year, instruction will be given in advanced stick, advanced MIG, and TIG processes. Practice in the preparation of metals for welding, methods of testing welds, and correct applications of proper welds will be included. Students will work with mild steel, and stainless steel.