A Legacy of Excellence

2026-27

ACADEMIES AT JONESBORO HIGH SCHOOL

COURSE CATALOG

OUR MISSION

The mission of the Academies at Jonesboro High School is to provide a high quality, research-based education for all students in order to equip them with the essential skills necessary to be successful in today's changing global community. Through strong partnerships with business and community stakeholders, the Academies at Jonesboro High School will ensure high achievement in all subjects through an expanded curriculum and the use of data-driven methods to evaluate and implement proven instructional strategies. The Academies at JHS will foster respect for global diversity and maintain a commitment to create exceptional opportunities for the educational growth of every child.

THE ACADEMY OF BUSINESS, COMMUNICATION ARTS, AND LAW

The Business, Communication Arts, and Law Academy of Jonesboro High School involves emphasis in areas such as visual media, digital communications, computer business applications, financial literacy, accounting skills, law and work-based employment skills. -0Some of the coursework in the academy provides students with industry certification, making them more employable after graduation. Other courses offer employment skills training that students encounter in the real world of business. Visual media and digital communications courses provide students with publishing and design skills for print and digital media. Financial literacy and accounting coursework provides students with skills relevant to the financial aspects of business.

THE ACADEMY OF HEALTH AND HUMAN SERVICES

The Academy of Health and Human Services of Jonesboro High School will serve students interested in the fields of food & natural resources, education, government, health science, hospitality and tourism, and human service. Teachers and students explore these careers with the unifying goal of improving the lives of others locally and internationally. Teachers in this academy foster skills such as resource allocation, team management, adaptability, systems evaluation, effective communication, and many more that can easily transfer into a work-related environment. Students in this academy learn what it means to be active participants in their community, productive citizens of their country, and caring advocates for human rights around the world.

THE STEM ACADEMY

The STEM Academy of Jonesboro High School will provide a rich integrated curriculum of Science, Technology, Engineering, and Mathematics to help students become college and/or career ready by learning to reason and think creatively and critically in order to solve real work problems. In this academy, the students will be engaged in rigorous academic work that will require a mindset of growth and effort with a heavy emphasis on math and pure science. The STEM Academy is for students ready to accept personal responsibility for their learning and achieve the goals they have set for themselves.

NORTHEAST ARKANSAS CAREER AND TECHNICAL CENTER

The Career & Tech Center serves students from 13 school districts in four Northeastern Arkansas counties. We strive to instill in every student the skills necessary to compete for high-demand, high-wage earning positions in order to lead successful lives in the ever-expanding global marketplace. At Northeast Arkansas Career & Tech Center...YOUR CAREER AWAITS!

Jonesboro Public Schools

Graduation Requirements

General Diploma

English (4 credits)

- English 9
- English 10
- English 11
- English 12

History (3 credits)

- US History
- World History
- Civics (½ credit)
- Economics (½ credit)

Math (4 credits)

- Algebra I
- Algebra II
- Geometry
- 4th Math of Choice

Science (3 credits)

- Physical Science
- Biology
- 3rd Science of Choice

Additional Required Courses (9 credits)

- Health (½ Credit)
- Physical Education (½ Credit)
- Fine Arts (½ Credit)
- Oral Communications (½ Credit)
- Computer Science (1 Credit)
- Pathway Level 1 (1 Credit)
- Pathway Level 2 (1 Credit)
- Pathway Level 3 (1 Credit)
- 3 Electives of Choice (3 Credits)

Other Requirements:

- Arkansas History - 8th Grade, No Credit
- Digital Course for Credit
- Pass Arkansas Civics Exam
- CPR, Stop the Bleed, Breast Feeding, Adoption
- 75 Hours Community Service

Classification of Students

10th Grade	11th Grade	12th Grade
5.5 Credits	11 Credits	16.5 Credits

Total Credits Required: 23

Jonesboro Public Schools

Merit Diploma & Honor Graduate Qualifications

Diploma of Merit:

(Complete general diploma requirements and ONE of the following)

- Earn a High Wage, High Demand Industry Recognized Credential
- Complete 12 hours of postsecondary credits
- Arkansas Certified Pre-Apprenticeship leading to Registered Apprenticeship
- AP Scholar Designation
  - Take and pass a minimum of 3 AP classes
  - Score a 3 or better on at least 3 AP exams by end of 11th grade year
- AP Scholar with Honor Designation
  - Take and pass a minimum of 4 APcasses
  - Average a score of 3.25 or higher on all AP exams
  - Score 3 or better on at least 4 AP exams by end of 11th grade grade year
- ASVAB Score of 31 and completion of approved Enlistment Pathway
- Seal of Biliteracy

Diploma of Merit with Distinction

(Complete general diploma requirements and ONE of the following)

- Technical Certificate or higher (e.g, Associate's Degree)
- AP Scholar with Distinction Designation
  - Take and pass a minimum of (5) AP classes
  - Average a score of at least 3.5 on all AP exams
  - Score 3 or better on at least (5) AP exams by the end of 11th grade year
- ASVAB Score of 31 and currently enlisted in the Armed Forces

Honor Graduate Requirements

(in addition to general diploma requirements)

- Earn 3.5 GPA or Higher (cumulative)
- Complete 2 years of the same foreign language
- Complete a Success-Ready Pathway
- No placement at the alternative school | and no more than 5 total days of OSS (grades 10-12)
- Earn a Diploma of Merit OR Diploma of Merit with Distinction

Concurrent Credit Courses at Arkansas State

Starting Fall 2026 • Earn College Credit in High School!

ENGLISH

- Composition I
- Composition II
- World Literature I
- World Literature II

HISTORY

- AP U.S. History
- AP World History

WORLD LANG.

- AP Spanish I and II

EDUCATION

- Introduction to Education
- Education Technology

MATHEMATICS

- College Algebra

FINE ARTS

- Fine Arts: Music

Save Time & Money - Get a Head Start in College!

Students must score an approved score on the ACT or ACCUPLACER.

For specific scores, reach out to your school counselor.

Arkansas State University • www.astate.edu

Concurrent Credit Courses at BRTC

Starting Fall 2026 • Earn College Credit in High School!

JONESBORO

SCIENCE

- Biological Science & Lab
- Human Anatomy & Physiology I (**Virtual**)
- General Chemistry I & Lab

MATH

- College Algebra*
- Math Reasoning / Quantitative Literacy

ENGLISH / COMM.

- Freshman English **I***
- Freshman English **II***
- Oral Communications (Virtual - 9th Grade)

SOCIAL SCIENCES

- Principles of Macroeconomics
- Principles of Microeconomics
- Intro to Psychology (Virtual)
- Principles of Sociology (Virtual)

FINE ARTS

- **Fine Arts: Visual** (Virtual - 9th Grade)

Save Time & Money • Get a Head Start on College!

Students must complete a state-approved college readiness assessment (ACT, SAT, ATLAS, ALE, ACCUPLACER, or equivalent) prior to enrollment. No minimum qualifying score is required for participation through Jonesboro High School.

Students must maintain a 2.5 GPA.

Black River Technical College • www.blackrivertech.edu

CLASSIFICATION OF STUDENTS

10TH GRADE: 5.5 Credits (Must include 1 credit each for English 9 and Math)

11TH GRADE: 11 Credits

12TH GRADE: 16.5 Credits

GRADUATION: 23 Credits

REGISTRATION AND COURSE SELECTION

Course selection is one of the most important decisions students make in high school. Students are encouraged to collaborate with their parents/guardians, counselors, and teachers to select courses that align with their postsecondary goals.

Jonesboro Public Schools students develop a **four-year high school plan** to guide course selections, ensure graduation requirements are met, and align coursework with individual interests and future plans.

REGISTRATION AND COURSE SELECTION

In accordance with Act 930 of 2017, all Arkansas students must have a Student Success Plan in place by the end of 8th grade.

Student Success Plans:

- Guide students along pathways to graduation
- Address accelerated learning opportunities
- Identify academic deficits and interventions
- Include college and career planning components

Jonesboro Public Schools students can access their digital Student Success Plan to create and update their four-year plan, explore program options, review graduation requirements, and research career pathways.
Students, in collaboration with their parent/guardian and the school, will review and update their four-year plan annually to guide high school course selections.

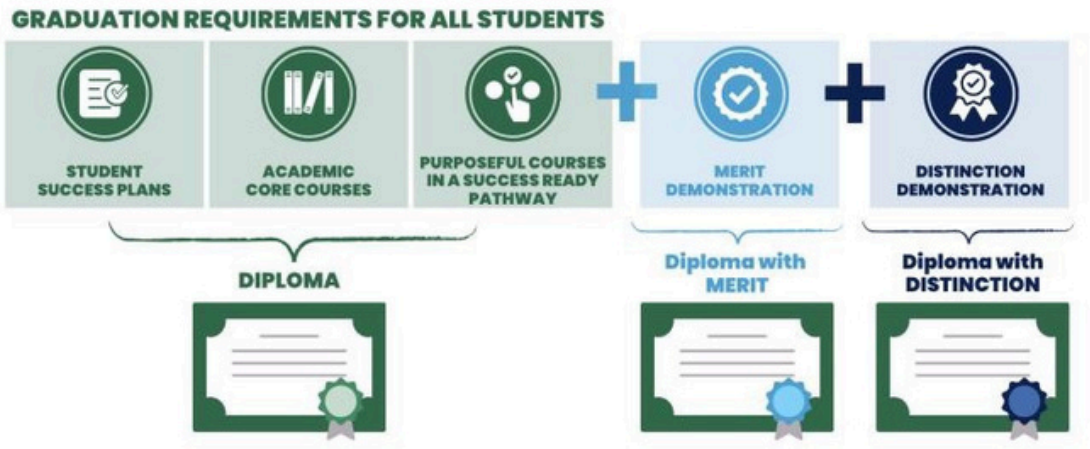
COMMUNITY SERVICE

Students are required to complete **75 hours of verified community service** to graduate. Hours may be earned during grades 9–12, including the summer prior to 9th grade.

Students and families may choose the organization or location where service hours are completed. All hours must be **verified by an adult supervisor**. Verification may be submitted in the form of an email, certificate, signed form, or letter confirming the hours served.
Students must upload verification documentation when submitting their hours through the school's designated Google Form. Please visit the school website for the link to submit community service hours.

SUCCESS READY PATHWAYS

Class of 2028 and beyond



Beginning with the Class of 2028, the State of Arkansas has expanded graduation options through Success Ready Pathways. In addition to earning a traditional high school diploma, students may pursue:

- Diploma with Merit
-
- Diploma with Distinction
-

These diploma options recognize students who complete more rigorous coursework and demonstrate readiness for college, career, or military pathways. Requirements may include advanced coursework, career-focused pathways, industry credentials, concurrent credit, Advanced Placement (AP), or other accelerated learning opportunities.

Students should work closely with their counselor to understand the specific requirements for each diploma option and to ensure their four-year plan aligns with their postsecondary goals.

SEAL OF BILITERACY

The Arkansas Seal of Biliteracy recognizes high school students who demonstrate proficiency in English and one or more additional languages. Students must apply and submit official assessment scores to verify language proficiency.

SECTION 504

Jonesboro Public Schools ensures that students with disabilities are not discriminated against on the basis of disability. The district complies with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA).

In accordance with these laws, Jonesboro Public Schools provides eligible students with a Free Appropriate Public Education (FAPE).

SPECIAL EDUCATION

Jonesboro Public Schools provides special education and related services to eligible students in compliance with the Individuals with Disabilities Education Act (IDEA).

The district is committed to ensuring a Free Appropriate Public Education (FAPE) in the least restrictive environment and providing high-quality services to students and families.

ADVANCED PLACEMENT

Weighted credit will only be awarded for each semester if the student completes the AP exam at the end of the year. Possible college credit is awarded by the college and is based on the exam score.

CONCURRENT COURSES

Students may enroll in concurrent credit courses while in high school. Courses may be offered on the high school campus, online, or on the community college campus. Students must meet the eligibility requirements for each concurrent course. Weighted credit will be awarded for concurrent classes completed by an accredited college. Jonesboro Public Schools has partnered with Arkansas State University and Black River Technical College (BRTC) to offer concurrent credit on site. Students also have the opportunity to pursue an Associates Degree with BRTC.

- Each three-hour concurrent course, including those with an additional lab, counts as 1 high school credit in the same subject area.
- Juniors and seniors in the associate degree program will be enrolled in courses on their high school campus according to their Student Success Plan. Non-degree seeking students must take at least four high school campus classes if enrolled in two off-campus concurrent courses, or five classes if enrolled in one off-campus course.
- Approval from a counselor and administrator is required before enrolling in an off-campus or online concurrent course that replaces one of the 22 core courses required by the Arkansas Department of Education. Letter grades for concurrent courses are recorded on the high school transcript. Students must provide proof of enrollment to their counselor within the first week of the semester.
- Students taking concurrent courses during the school day are eligible for A2A (ACCESS) funding, which covers the full cost of the courses. No application is needed, but courses must be taken during the school year and may not exceed 15 hours per semester. Students must maintain a 2.5 GPA in college courses to remain eligible.
- Courses taken outside of school hours or during the summer are considered dual enrollment, and families/students are responsible for all costs.
- *Disclaimer: Depending on the number of college credits students are enrolled to take it could affect total scholarship amounts. Please see your College & Career Coach for any questions.*

JONESBORO PUBLIC SCHOOLS 9-12
COURSE DESCRIPTIONS FOR GRADUATION REQUIREMENTS

Language Arts

Four units of English are required for graduation. Courses in journalism, drama or debate will not serve as a substitute for English.

ENGLISH I WITH ORAL COMMUNICATION 410400 Credit: 1 year, 1 unit
In the on-level English course, students will review grammar and usage, literature (short stories, novels, drama, and poetry), writing, and vocabulary studies. An independent reading program and critical thinking exercises are also provided for skills extension and personal enrichment. Oral expression is encouraged through group projects, formal debates, and the sharing of individual written assignments. Oral communication instruction and practice are embedded within the course and fulfill the Oral Communication graduation requirement.

PRE-AP ENGLISH I 410100 Credit: 1 year, 1 unit
The Honors English course is designed for highly motivated students. The course serves as a continuation of the advanced program developed in the 7th and 8th grade. A balance is maintained in reading, literature, composition, grammar mechanics, and usage, and the students are given the opportunity to begin their study of language and composition skills at an advanced level. The literature studies are designed to cultivate analytical higher level thinking skills. Students will practice critical thinking, compositional structure and in-depth literary analysis including classical and dramatic texts. Emphasis is also placed on the research, persuasive argument and formal debate in preparation for success in advanced placement classes and higher education.

ENGLISH II 411000 Credit: 1 year, 1 unit
Students entering the tenth grade will build on their reading, writing, and speaking skills throughout the year. Students will read a variety of fiction, nonfiction, plays, articles, and novels to develop reading fluency and stamina. Writing assignments will include pieces of varying lengths and styles to demonstrate growth and proficiency. Through analysis, discussion, presentations, and collaborative activities, students will explore literature and its impact on the world today.

PRE-AP ENGLISH II 411100 Credit: 1 year, 1 unit
Honors Sophomore English II will prepare students for AP English Language and Composition in the 11th grade. This class will include a reading program dealing with novels, dramas, poetry, and basic literary selections, as well as a writing program teaching students to think and write analytically about literature. Selection is based on teacher recommendation (regular attendance, diligence, motivation, and behavior). Oral communication instruction and practice are embedded within the course and fulfill the Oral Communication graduation requirement.

ENGLISH III 412000 Credit: 1 year, 1 unit
English III is an 11th grade course that provides an overview of American literature in chronological order. The evolution of our national literary heritage is traced to develop a concept of how political and social pressure has affected the work of foremost authors. Composition assignments based on the material studied - stress the techniques of the three point theme. Through the course, emphasis is placed on appropriate study techniques for each genre and the improvement of language skills, such as spelling, sentence construction, and vocabulary.

AP ENGLISH LITERATURE AND COMPOSITION (11) 517040 Credit: 1 year, 1 unit
Students are required to take the National AP exam.
This is a college level introductory course in the reading and critical analysis of literature. The course is concerned with language as a symbolic process and with literature as experience preserved in symbols. Enrollment is limited and selection is based on previous English course grades, teacher recommendations, verbal scores on standardized tests, and an impromptu essay. Summer reading is a requirement. This course will culminate in the Advanced Placement examination given in early May. An AP contract that outlines course requirements must be signed by both the student and parents/guardians and the guidelines within will be strictly enforced. Special Information: Students meeting requirements on AP test score may earn concurrent credit through many colleges for AP Literature and Composition ENG2003/ENG2013.

ENGLISH IV 413000 Credit: 1 year, 1 unit

Senior English provides a close study of necessary English skills which will assist students as they enter the workforce, trade school, or university. Skills such as note taking, close reading, reading comprehension, writing for a specific task, and revising are all taught, building on the learning the students have acquired previously. Through novels, short stories, news articles, biographies, projects, and essays, students will grow and improve the key skills. An overall theme of survival ties together the entire year as Seniors learn what skills are needed to make it after high school.

AP ENGLISH LANGUAGE AND COMPOSITION (12) 517030 Credit: 1 year, 1 unit

Students are required to take the National AP exam.

Advanced Placement English Language and Composition is a college level survey of language, style, and rhetoric taught in a high school setting to students of above average aptitude and motivation. An extensive amount of reading and writing assignments, including a research paper, will be required. The course will culminate in the Advanced Placement examination, traditionally given in May. An AP contract that outlines course requirements must be signed by both the student and parents/guardians and the guidelines within will be strictly enforced.

FRESHMAN COMPOSITION I/II (CONCURRENT COURSE) 519940 Credit: 1 year, 2 unit

Must meet either Arkansas State or Black River Technical College requirements for admission.

Prerequisite for Freshman Composition II: A "C" or better in Freshman Composition I

This course is a college concurrent writing class. Students who enter this course will explore all modes of [illegible] as a means to prepare themselves for the various writing demands presented in college. Freshman Composition I w[illegible] short or [illegible] papers and forms such as narratives and arguments. Freshman Composition II will focus on research and writing. This course can count as a substitute for English 12 and if passed with a "C" or higher, the student will receive college credit.

WORLD LITERATURE (CONCURRENT COURSE) 519900 Credit: 1 year, 2 units

Must meet either Arkansas State or Black River Technical College requirements for admission.

World Literature I is an “introduction to the analysis and interpretation of literary works from several histori[illegible]ds ranging from early civilizations through the Renaissance” (Undergraduate Bulletin). World Literature II has the san[illegible]e, but we look at works from the Renaissance to present.

Mathematics

ALGEBRA I 430000 Credit: 1 year, 1 unit
Algebra I is the foundation for all higher mathematics courses. The course emphasizes the acquisition of algebraic concepts and skills including the study of real numbers, polynomials, rational expressions, problem solving skills, graphing, and solutions of equations and inequalities. Algebra I is a prerequisite for Algebra II. Algebra I taken in 8th grade will count as one math credit toward graduation.

PRE-AP ALGEBRA I 430300 Credit: 1 year, 1 unit
Pre-AP Algebra I is a rigorous course designed to strengthen students' understanding of algebraic concepts and prepare them for advanced mathematics. Emphasis is placed on real numbers, polynomials, rational expressions, equations and inequalities, functions, graphing, and problem solving. Students are expected to apply mathematical reasoning and analyze complex problems. Successful completion prepares students for higher-level math coursework.

ALGEBRA II 432000 Credit: 1 year, 1 unit
This course is designed to equip students with a working knowledge of algebra skills needed for Pre-Calculus w/Trig and College Algebra.

PRE-AP ALGEBRA II 432300 Credit: 1 year, 1 unit
This course is designed to equip college bound students with a working knowledge of the algebra skills needed for Pre-Cal w/Trig, Calculus, and College Algebra.

GEOMETRY 431000 Credit: 1 year, 1 unit
Geometry stresses the development of logical thinking skills and is the link between algebra and higher mathematics. Geometry is a graduation requirement.

PRE-AP GEOMETRY 431300 Credit: 1 year, 1 unit
Honors Geometry is designed for highly motivated and capable students. This course moves at a fast pace and explores in-depth problems of traditional Geometry.

ALGEBRA III 439070 Credit: 1 year, 1 unit
Algebra III is a course for seniors who have completed Algebra II and Geometry. Attention is given to standardized test preparation as well as preparation for College Algebra.

QUANTITATIVE REASONING 439120 Credit: 1 year, 1 unit
This course builds on Algebra I to explore mathematical topics and relationships. Emphasis will be placed on applying modeling as the process of choosing and using appropriate mathematics and statistics to analyze, to better understand, and to improve mathematical understanding in real world situations. Students will represent and process their reasoning and conclusions numerically, graphically, symbolically, and verbally. Quantitative Literacy will help students develop conceptual understanding by supporting them in making connections between concepts and applying previously learned material to new contexts.

PRE-CALCULUS 433000 Credit: 1 year, 1 unit
This course is designed to prepare students for entry into post-secondary mathematics courses. Elementary and trigonometric functions are studied from graphical, analytical and numerical approaches.

Mathematics

AP PRECALCULUS 533030 Credit: 1 year, 1 unit

Taking AP Precalculus prepares you for other college-level mathematics and science courses. During the course, you'll explore everyday situations using mathematical tools and lenses. You'll also develop an understanding of modeling and functions, and examine scenarios through multiple representations.

AP CALCULUS AB 534040 Credit: 1 year, 1 unit

Students are required to take the national AP exam.

AP Calculus is an advanced math course for the serious math student who plans to pursue mathematics or a related field after high school graduation. This course is equivalent to a college level Calculus I course. Emphasis is placed on limits, differential calculus, and simple integral calculus of polynomial, logarithmic, and trigonometric functions.

*Disclaimer: Course offerings are contingent upon sufficient student enrollment. Courses with low enrollment requests may not be offered.

AP STATISTICS 539030 Credit: 1 year, 1 unit

Students are required to take the national AP exam.

The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students who successfully complete the course and exam may receive credit, advanced placement, or both for a one-semester introductory college statistics course. It is recommended that the student have concurrent enrollment in Pre-Cal w/Trig, College Algebra or Calculus.

COLLEGE ALGEBRA 53990F Credit: 1 Semester, 1 unit

Must meet either Arkansas State or Black River Technical College requirements for admission.

College Algebra is an overview of the fundamental concepts of algebra. Topics include linear and quadratic equations and inequalities, the Cartesian plane and graphing, functions and graphs, polynomial and rational functions, exponential and logarithmic functions, systems of equations, and matrices. This class is taught on campus at Jonesboro High School.

MATH REASONING/QL (CONCURRENT CREDIT) 539150 Credit: 1 Semester, 1 unit

Must Black River Technical College requirements for admission.

This course focuses on quantitative literacy and real-world mathematical reasoning, helping students apply math skills to everyday situations such as finance, data analysis, problem-solving, and decision-making. Students will strengthen critical thinking through practical applications rather than abstract theory. This course offers concurrent college credit, allowing students to earn high school and college credit simultaneously while preparing for postsecondary education and career readiness.

Science

HONORS PHYSICAL SCIENCE 42300P Credit: 1 year, 1 unit

The Honors Physical Science course is designed for highly motivated and capable students whose intention is to study AP Chemistry and AP Physics. Honors Physical Science will focus on the study of matter and energy and will make serious inquiries into the following areas of science: motion, force, energy, light, sound waves, heat, electricity, atomic structure, periodic table, chemical reactions, properties of matters, and chemical formulas. A balance will be struck between acquiring a thorough understanding of fundamental physical science theory and developing competency with basic physical science experiments. Honors Physical Science will also require a student to be proficient in writing his/her understandings of required coursework, participation in science fair, developing a research paper and a display of research.

INTEGRATED BIOLOGY 420000 Credit: 1 year, 1 unit

This is the standard sophomore course which satisfies the biology requirement for graduation. Biology investigates the major themes of biological life: the nature of the cell, the chemistry of living systems, inheritance and a study of DNA, plant and animal classification, and plant and animal anatomy and physiology. It is the study of living organisms and their relationships to each other and the environment.

PRE-AP BIOLOGY 420100 Credit: 1 year, 1 unit

Biology is the study of living organisms, how they survive, reproduce, and interact with each other and their environment. This course provides enrichment and acceleration for students with special interests in science and math, and prepares them to take Advanced Placement Biology as a junior or senior. The Honors Biology curriculum differs from the on-level biology curriculum in pace and scope of topics covered. The Honors course places a higher priority on developing critical thinking skills, examines topics with more depth and includes more advanced resource materials. Laboratory investigations play more prominent roles and are more sophisticated than in the on-level curriculum.

AP BIOLOGY 520030 Credit: 1 year, 1 unit

Students are required to take the national AP exam.

The AP Biology course is designed to be the equivalent of a two-semester college introductory biology course. This course differs from the usual first high school course in biology with respect to the kind of textbook used, the range and depth of topics covered, the type of laboratory work done by students and the time and effort required of students. AP Biology is designed to be taken by students after successful completion of a first course in high school biology and one in high school chemistry as well. AP biology is a challenging class that aims to provide students with conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. An AP contract that outlines course requirements must be signed by both the student and parents/guardians and the guidelines within will be strictly enforced.

INTEGRATED CHEMISTRY 421000 Credit: 1 year, 1 unit

Chemistry I is an introductory course in chemistry for students who are college bound. This course is a laboratory investigative approach to the understanding of chemistry as a science. Students will gather information related to the structure of matter and will seek to arrange this information into meaningful patterns. Strong emphasis is placed upon reasoning and problem-solving. The topics covered include the structure and properties of matter and how they are measured, chemical laboratory techniques, atomic structure and chemical bonding, chemical quantities and equations, and the use of the periodic table. Concepts are presented through lecture, class discussion, demonstrations, and activities. Laboratory experiments are designed to demonstrate chemical principles covered in classroom work. Use of basic algebra is an essential part of this course.

Science

RE-AP CHEMISTRY 421300 Credit: 1 year, 1 unit

Honors Chemistry is an introductory course in chemistry for students who are college bound and who plan to enroll in Advanced Placement Chemistry as seniors. The content of the course is similar to Chemistry I but topics are covered in greater depth and the pace of the class is more accelerated. Students will learn the facts, formulas and principles that compose the standard high school chemistry curriculum; they will understand the basic concepts underlying those facts, formulas and principles; and they will develop the critical thinking and problem solving skills needed for success in Advanced Placement Chemistry and other challenging courses. Strong emphasis is placed on laboratory skills.

AP CHEMISTRY 521030 Credit: 1 year, 1 unit

Students are required to take the national AP exam.

Students in AP Chemistry will attain a depth of understanding of fundamental chemical concepts and a competence in dealing with chemical problems using problem-solving techniques and critical thinking skills. This course involves an in-depth study of fundamental chemical laws and theories with a realistic balance between theory and application in the study of structure of matter, chemical reactions, equilibrium, kinetics, descriptive chemistry and chemical analysis. Strong emphasis is placed on experimentation and research techniques. An AP contract that outlines course requirements must be signed by both the student and parents/guardians and the guidelines within will be strictly enforced.

AP PHYSICS 1 522080 Credit: 1 year, 1 unit

Students are required to take the national AP exam.

The AP Physics course includes topics in both classical and modern physics. A knowledge of algebra and basic trigonometry is required for the course. Understanding of basic principles involved and the ability to apply these principles in the solution of problems will be the major goals of the course. AP Physics B will provide instruction in each of the following five content areas: Newtonian mechanics, fluid mechanics and thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics. An AP contract that outlines course requirements must be signed by both the student and parents/guardians and the guidelines within will be strictly enforced.

**Disclaimer: Course offerings are contingent upon sufficient student enrollment. Courses with low enrollment requests may not be offered.*

E**NVIRONMENTAL SCIENCE 424020 Credit: 1 year, 1 unit**

Environmental science is an integrated science course that continues to develop conceptual understanding of the interactions in Earth science, physical science, and life science systems. The standards for environmental science engage students in the core ideas, scientific and engineering practices, and crosscutting concepts to support the development of knowledge that can be applied to understanding, explaining, and improving human interactions with Earth systems and resources. There are strong connections to mathematical practices of analyzing and interpreting data with creating mathematical and computational models.

AP ENVIRONMENTAL SCIENCE 523030 Credit: 1 year, 1 unit

Students are required to take the national AP exam.

AP Environmental Science is designed to be the equivalent of a one semester, college environmental science course. This course has been developed as a rigorous scientific course that stresses scientific principles and analysis of interrelationships in the natural world and environmental issues that face today's world. This course does contain a lab component. An AP contract that outlines course requirements must be signed by both the student and parents/guardians and the guidelines within will be strictly enforced.

BIOLOGY (CONCURRENT CREDIT) 529910 Credit: 1 year, 1 unit

Must meet Black River Technical College requirements for admission.

This course provides a comprehensive study of fundamental biological concepts, including cell structure and function, genetics, evolution, ecology, and scientific inquiry. Instruction emphasizes critical thinking, laboratory investigations, data analysis, and real-world applications of biology. The course is taught at the high school and follows the curriculum and standards of Black River Technical College, allowing students to earn both high school and college credit upon successful completion.

Science

CHEMISTRY (CONCURRENT CREDIT) 529930 Credit: 1 year, 1 unit

Must Black River Technical College requirements for admission.

This course provides a comprehensive study of fundamental chemistry concepts, including atomic structure, chemical bonding, reactions, stoichiometry, states of matter, and the behavior of substances. Emphasis is placed on laboratory investigations, data analysis, problem-solving, and real-world applications of chemistry. The course is taught at the high school and follows the curriculum and standards of Black River Technical College, allowing students to earn both high school and college credit upon successful completion.

ANATOMY AND PHYSIOLOGY (CONCURRENT CREDIT) 524030 Credit: 1 year, 1 unit

Must Black River Technical College requirements for admission. This class is offered virtually in the JHS virtual class.

Anatomy and Physiology is a rigorous, lab-based course that explores the structure and function of the human body systems. Students study body organization, homeostasis, and major systems including skeletal, muscular, cardiovascular, respiratory, nervous, and endocrine systems. As a concurrent credit course, students may earn both high school and college credit. This course is recommended for students interested in health or medical careers.

Social Studies

UNITED STATES HISTORY (9) 470000 Credit: 1 year, 1 unit
United States History is required for graduation. This course is a study of our historical heritage with emphasis being placed on that period from the Reconstruction Period after the Civil War to the present. This course will center on a chronological study of various social, political, and economic events, which have shaped our nation's history.

PRE-AP UNITED STATES HISTORY (9) 47000P Credit: 1 year, 1 unit
United States History is required for graduation. This course is a study of our historical heritage with emphasis being placed on that period from the Reconstruction Period after the Civil War to the present. This course will center on a chronological study of various social, political, and economic events, which have shaped our nation's history. This course is designed for the dedicated student who wishes to pursue AP World History in 10th grade.

WORLD HISTORY (10) 471000 Credit: 1 year, 1 unit
World History is a requirement for graduation. This course provides an in-depth study of the events and forces which have shaped human life since the beginning of recorded history. The events and forces studied are political, social, or economic in nature. World History will examine such disciplines as the arts, science, religion, and philosophy in an attempt to present a comprehensive study of man's development

PRE-AP WORLD HISTORY (10) 471100 Credit: 1 year, 1 unit
World History is a requirement for graduation. This course provides an in-depth study of the events and forces which have shaped human life since the beginning of recorded history. The events and forces studied are political, social, or economic in nature. World History will examine such disciplines as the arts, science, religion, and philosophy in an attempt to present a comprehensive study of man's development. This course is designed for the dedicated student who wishes to pursue AP United States History.

AP WORLD HISTORY (10) 571020 Credit: 1 year, 1 unit
Special Information: Students with a 19 ACT score and a 19 in reading prior to January have the option of earning concurrent credit through ASU for World Civilizations HIST 1013 during 2nd semester only. $120 course fee, $15 one-time registration fee and acceptance to ASU is required if the concurrent option is chosen. Students are required to take the national AP exam.
AP World History is an extremely intensive college level course designed to give students factual knowledge on the evolution of human society. Students will also enhance analytical skills by interpreting historical evidence to understand change and continuity in global process. This course is demanding and requires a serious commitment of time beyond the normal class period. The course will culminate with the AP examination traditionally given in May.

CIVICS (11) 472000 Credit: 1 semester, ½ unit
Civics is the study of the structure of American government with a focus on the U.S. Constitution, and the organization and operation of government at the national, state, and local levels. It also includes a study of law and the legal system, and foreign policy.

ECONOMICS WITH PERSONAL FINANCE (11) 474300 Credit: 1 semester, ½ unit
Economics is the study of the global economy with special emphasis given to the free enterprise system of the United States. Topics covered include a study of economic systems, global interdependence, personal finance, the role of government in the economy, supply and demand, and the free enterprise system.

AP GOVERNMENT (11) 572040 Credit: 1 year, 1 unit
This fulfills the Civics graduation requirement. Students are required to take the national AP exam.
Advanced Placement Government is a college level course that will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. The course will culminate with the AP examination traditionally given in May. An AP contract that outlines course requirements must be signed by both the student and parents/guardians and the guidelines within will be strictly enforced.

Social Studies

AP MACROECONMICS 579130 Credit: 1 semester, ½ unit

This fulfills the Economics graduation requirement with Personal Finance. Students are required to take the national AP exam. Advanced Placement Macroeconomics is a college level course that will introduce students to how the economy works as a whole. Topics include inflation, unemployment, economic growth, and the role of government and the Federal Reserve. The course builds critical thinking and analytical skills while preparing students for the AP Macroeconomics Exam, with the opportunity to earn college credit.

AP MICROECONMICS 579140 Credit: 1 semester, ½ unit

This fulfills the Economics graduation requirement with Personal Finance. Students are required to take the national AP exam. Advanced Placement Microeconomics is a college-level course that focuses on the principles of individual decision-making within the economic system. Students will study supply and demand, market structures, production costs, competition, and the role of government in markets. The course develops analytical and critical thinking skills while preparing students for the AP Microeconomics Exam, with the opportunity to earn college credit based on exam performance.

Foreign Language

SPANISH I 440000 Credit: 1 year, 1 unit
Spanish I is the study of elementary spoken and written Spanish. Early listening, speaking, reading and writing skills are taught. Cultural aspects of Spanish life are discussed.

SPANISH II 440020 Credit: 1 year, 1 unit
Prerequisite: Spanish I
Spanish II continues to emphasize the spoken and written language while presenting a broader vocabulary and more complex grammar to improve comprehension and skills of the students. Class discussions can be conducted in the target language.

SPANISH III 440020 Credit: 1 year, 1 unit
Prerequisite: Spanish II
Spanish III builds on Spanish I and II with a focus on advanced grammar, expanded vocabulary, and improved speaking, reading, and writing skills. Students engage in real-world communication and explore cultures of Spanish-speaking countries while preparing for advanced language study.

AP SPANISH LANGUAGE 540070 Credit: 1 year, 1 unit
Prerequisite: Spanish III
AP Spanish Language will continue the themes of Spanish III and advance the student's communication skills. Real-life material and experiences will be used to relate Spanish culture such as arts, science, familiar, and international events. An AP contract that outlines course requirements must be signed by both the student and parents/guardians and the guidelines within will be strictly enforced.

Health/Physical Education

HEALTH (9-12) 480000 Credit: 1 semester, 1/2 unit
Health is required for graduation.
Basic health is a course which offers information for healthy living. The course is designed to provide each student with an awareness of his own health needs and habits, and an understanding of the importance of health knowledge, attitudes, and habits. The course includes: the study of wellness, conflict resolution and preventing violence, growth and development, communicable and non-communicable diseases, sexually transmitted diseases and aids, and the effects of tobacco, alcohol, and drugs.

PERSONAL FITNESS 4 LIFE (9-12) 485010 Credit: 1 semester, ½ unit
This course includes a planned curriculum that provides content and learning experiences in motorskills and movement concepts as they apply to physical activity, health-related physical fitness, and lifetime sports and recreation.

RECREATIONAL SPORTS AND ACTIVITIES (9-12) 485020 Credit: 1 semester, ½ unit
This course includes a planned curriculum that provides content and learning experiences in motorskills and movement concepts as they apply to physical activity, health-related physical fitness, and lifetime sports and recreation.

OUTDOOR PURSUITS (9-12) 485030 Credit: 1 semester, ½ unit
Outdoor Pursuits is a one-semester course which includes a planned curriculum that provides content and learning experiences in basic motor skills and movement concepts as they apply to outdoor physical activity, lifetime sports, and recreational activities. Students will participate in outdoor activities that will increase physical fitness levels and develop health practices that value outdoor physical activity and its contribution to lifelong fitness. This course fulfills the PE requirement for graduation.

English Language Development (ELD) Classes

ELD 1 **596600** **Credit: 1 year, 1 unit**

Prerequisite: No Pre-requisite; Students are placed according to several data and factors

ELD 1 provides a safe environment for non-native English speakers to gain the necessary skills and proficiencies to achieve success in their new environment. Beginning level of English learners communicate about a range of topics and academic content areas through listening, speaking, reading, and writing activities that target high-level thinking with appropriate support.

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ELD 2 **596610** **Credit: 1 year, 1 unit**

Prerequisite: No Pre-requisite; Students are placed according to several data and factors

ELD 2 provides a sequential course to provide English language learners with the functional English necessary to successfully engage in a rigorous high school course of study. The course moves toward using the English language in more complex, cognitively demanding situations.

ELD 3 **596620** **Credit: 1 year, 1 unit**

Prerequisite: No Pre-requisite; Students are placed according to enrollment requirements

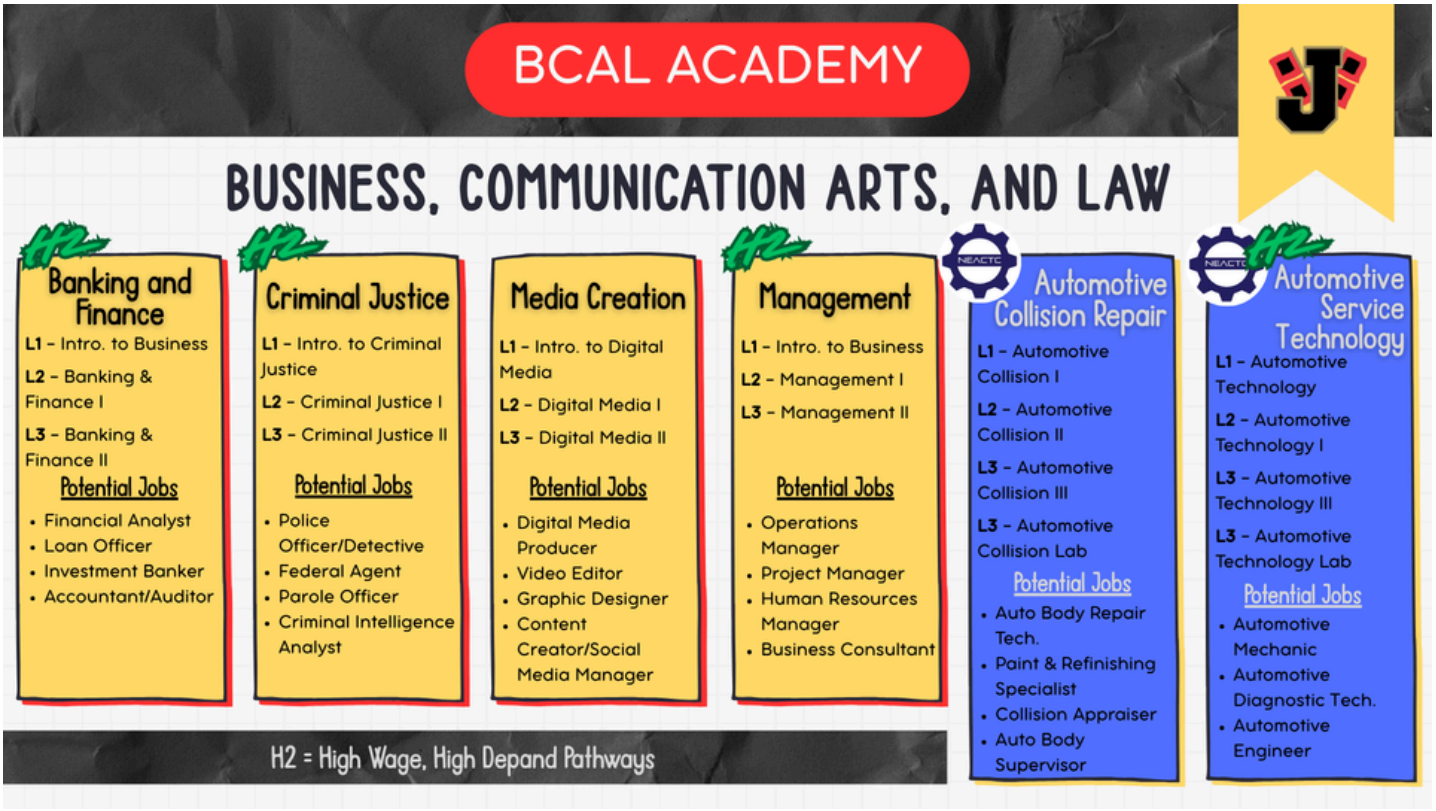
ELD 3 provides a sequential course content for students who are nearing reasonable fluency in English with increasing independence by learning and communicating about a range of topics and academic content areas through listening, speaking, reading and writing activities that target high-level thinking with interactive instruction and activities, a print-rich environment, and public speaking experiences in order to prepare students for mainstream English and other content classes.

ELD 4 **596630** **Credit: 1 year, 1 unit**

Prerequisite: No Pre-requisite; Students are placed according to enrollment requirements

ELD 4 has a primary purpose to prepare students to be well-rounded global citizens who can communicate effectively in English and are aware of the cultural influences of their heritage at home. The course focuses on developing proficiency in English through explicit language instruction and practice and on critical reading, academic writing, and presentational skills and strategies.

Suggested Courses for the Academy of Business, Communication Arts, and Law



INTRODUCTION TO BUSINESS 492120 Credit: 1 year, 1 unit

This is a two-semester course designed to prepare students with an introduction to business applications using Microsoft Office software that are necessary to live and work in a technological society. Emphasis is given to hardware, concepts, and business uses of applications. The business applications covered are word processing, database, spreadsheet, telecommunications, presentation, and Web page design. This is a one year course and is not intended to be taken for 1 semester.

BANKING AND FINANCE I 492090 Credit: 1 year, 1 unit

Prerequisite: Intro to Business

Principles of Banking provides an introduction to banking services and financial institutions. Students will study principles of banking transactions and the services of a bank. Topics include: soft skills in the workplace, history of banking, federal reserve, banking laws, ethics, and banks as business, banking services, bank security, ten-key touch, and banking transactions. The prerequisite for this course is Survey of Business.

BANKING AND FINANCE II 490860 Credit: 1 year, 1 unit

Prerequisite: Banking and Finance I

This two-semester course addresses all aspects of consumer and commercial lending as well as financial and insurance statements. Other topics addressed in this course include managing loan files, assessing risk in lending, understanding issues of regulation and compliance, bankruptcy, credit reports, and appraisals.

MANAGEMENT I 490820 Credit: 1 year, 1 unit

Prerequisite: Intro to Business

This is a two-semester course that will provide students with foundational knowledge of business management principles, emphasizing key skills such as leadership, decision-making, and communication. The course aligns with Arkansas Department of Education standards by introducing students to concepts such as planning, organizing, and resource management within business settings. Students will engage in practical applications, including case studies and group projects, to prepare for future careers in management and related fields.

MANAGEMENT II 492320 Credit: 1 year, 1 unit

Prerequisite: Management I

Management II builds on the principles introduced in Management I and aligns with Arkansas Department of Education standards by focusing on advanced management concepts and real-world business applications. Students develop higher-level skills in leadership, strategic planning, human resource management, and ethical decision-making. Emphasis is placed on problem-solving, teamwork, and analyzing business scenarios to prepare students for postsecondary education and careers in management and related fields.

INTRODUCTION TO DIGITAL ARTS (10-12) 493680 Credit: 1 year, 1 unit

The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Arts, A/V Technology and Communication Career Cluster. The content includes, but is not limited to, technology literacy; understanding the importance of Arts and A/V; understanding the role of science, math, reading, writing, history, and technology in Arts and A/V; and Digital Media. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided through theory and hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.

DIGITAL Media I (10-12) 493420 Credit: 1 year, 1 unit

Prerequisites: Introduction to Digital Arts

The core course will provide an understanding of production principles and experience with the video camera, lighting instruments and techniques, microphones, script creation, and editing. Students will perform assignments on camera as well as studio and control room duties.

DIGITAL MEDIA II 493430 Credit: 1year, 1 unit

Prerequisites: Digital Media I

This independent production-based program is designed to allow the student to master the knowledge and skills needed to begin a successful television career.

INTRODUCTION TO CRIMINAL JUSTICE 494620 Credits: 1 year, 1 unit

The mission of the Criminal Justice program of study is to introduce students to careers in law enforcement and related careers. The instructional program prepares students to perform the duties of police and public security officers including witness interviewing, evidence collection and management, and basic crime prevention methods. An overview of the crime scene investigation process is gained by obtaining the skills necessary to properly recognize the document collection process and how evidence is properly preserved. Also, patrol and investigative activities, traffic control, crowd control, and public relations skills are emphasized in the courses of study in criminal justice. Students enrolled in the criminal justice program (Intro, CSI and Criminal Law) also receive CPR certification ($17 fee, price may change). NOTE: Due to the nature of law enforcement some material may be of a graphic nature. Student conduct is a CRITICAL element for every student enrolling in this course. Due to the sensitive nature of the course content and associated activities, students will NOT be considered for enrollment in this course with excessive behavior referrals or other possible detrimental behavior or actions. This is a one year course of study.

CRIMINAL JUSTICE I 494600 Credits: 1 year, 1 unit

Prerequisite: Introduction to Criminal Justice

This course is designed to teach students the necessary background and practical skills to function as law enforcement officers. Topics reviewed in lecture and in applied exercises include administration of justice, basic law and procedures and patrol functions.

Criminal Justice II 494610 Credits: 1 year, 1 unit

Prerequisite: Criminal Justice I

The purpose of this instructional program is to prepare students to process crime scenes and perform the duties of a crime scene investigator. The course provides students with methods and procedures employed in a crime scene investigation from discovery of evidence to its presentation in courts of law. Topics include how to secure a crime scene, how to recognize various types of forensic evidence, how to collect and preserve evidence, maintain chain of custody and avoid contamination of physical evidence and biological specimens. Students enrolled in the criminal justice program (Intro, CSI and Criminal Law) also receive CPR certification ($17 fee, price may change). NOTE: Due to the nature of a crime scene some material may be of a graphic nature. Student conduct is a CRITICAL element for every student enrolling in this course. Due to the sensitive nature of the course content and associated activities, students will NOT be considered for enrollment in this course with excessive behavior referrals or other possible detrimental behavior or actions. This is a one year course of study.

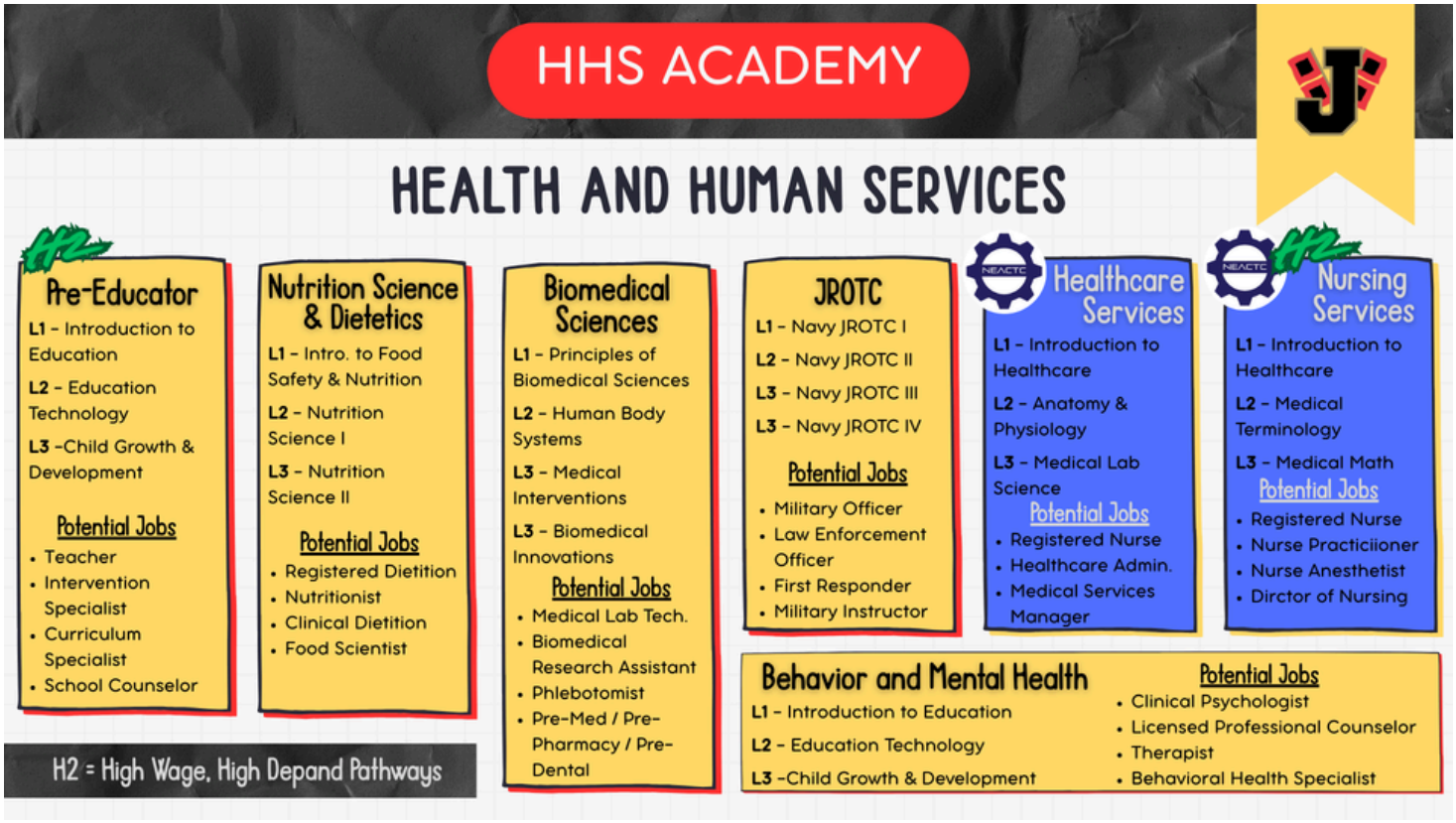
AUTOMOTIVE COLLISION TECHNOLOGY Credits: 1 year = 2 credits

Automotive Collision Technology is a highly skills-based program of study providing opportunities for students to become proficient in this field, and prepare to embark upon careers in auto collision repair. The auto collision program and instructor are certified by the National Automotive Technicians Education Foundation (NATEF), which allows students to learn critical skills and ultimately, to test for ASE certification, a requirement for technicians in dealerships and independent auto collision repair centers nationwide. Students are expected to take and pass ASE certification exams upon completion of the course. The auto collision program of study includes painting, refinishing, structural, and non-structural analysis. College credit is available through BRTC. Students are encouraged to purchase a lab shirt and wear in class daily (approx. cost $25 each). Two years available for this course.

AUTOMOTIVE SERVICE TECHNOLOGY (10-12) Credits: 1 year = 2 credits

Automotive Service Technology offers a rich tradition as the first accredited AYES apprenticeship program in the state of Arkansas (2000). All equipment is state-of-the art including training software, diagnostics, and service equipment. Another highly skills-based program of study, auto service provides opportunities for students to become proficient in automotive service, and prepared to embark upon careers as service technicians in high demand, high wage earning positions throughout the automotive service industry. The auto service program is certified by the National Automotive Technicians Education Foundation (NATEF). This benchmark accreditation allows students to test for ASE certification. Gaining ASE certification provides numerous opportunities for careers as technicians in dealerships and independent auto service repair centers nationwide. Students are expected to take and pass ASE certification exams upon completion of the course. The auto service program of study offers instruction in engine performance, brakes, electrical systems, and suspension and steering. College credit is available through Black River Technical College. It is recommended for students to purchase and wear a lab shirt. Two years available for this course.

Suggested Courses for the Academy of Health and Human Services



CHILD GROWTH & DEVELOPMENT (10-12) 493020 Credit: 1 year, 1 unit

Prerequisite: Family and Consumer Science

Lifespan Development focuses on skills needed to guide the physical, cognitive/intellectual, emotional, and social development of children. This course focuses on development of career-ready skills related to pregnancy and prenatal development, types and stages of child growth and development, needs of children, factors influencing the behavior of children, children with special needs, coping with crises, the effects of technology on child development, and careers related to the area of child development. Students will also gain knowledge and skills of the parenting process and parenting skills, costs related to raising children, resources available to parents, and factors to consider when selecting childcare and education options. Lifespan Development will benefit anyone who lives with, associates with, or works with children in various career fields.

DYNAMICS OF HUMAN RELATIONSHIPS 493150 Credit: 1 year, 1 unit

Prerequisite: Child Growth & Development

Dynamics of Human Relationships focuses on the nature, function, and significance of human relationships within family, community and career settings. This course examines skills needed for positive and productive relationships. The course also includes the study of these relationships and their effects on an individual's life. The course includes the importance of mental wellness, positive coping techniques, and awareness of treatment options of mental illnesses. This course provides a foundation for all career areas that involve interacting with families, mental health and wellness, treatment team members, clients, patients, customers, and the public.

INTRODUCTION TO FOOD SAFETY AND NUTRITION 493110 Credit: 1 year, 1 unit

This course develops essential food safety skills for selecting, storing, preparing, and serving food while meeting nutritional needs. Students learn to apply FDA Food Code guidelines and local regulations, practice proper sanitation, understand nutrition and weight management, and build foundational food preparation skills for personal health and careers in the food industry.

NUTRITION SCIENCE I 493200 Credit: 1 year, 1 unit

Prerequisite: Food Safety and Nutrition

This course examines the relationship among nutrition, food, and physical fitness for overall wellness across the lifespan. Students analyze dietary guidelines, nutrient functions, and disease prevention strategies while developing healthy lifestyle habits. This course is recommended for students interested in health sciences, wellness, or medical-related careers.

NUTRITION SCIENCE II 493130 Credit: 1 year, 1 unit

Prerequisite: Nutrition Science I

This level 3 course builds on the principles learned in Nutrition Science I by exploring advanced concepts in nutrition, wellness, and disease prevention. Students examine specialized diets, current nutrition trends, food safety, and the impact of nutrition on chronic disease and overall health. Emphasis is placed on applying knowledge to real-world situations and preparing for careers in health and wellness fields.

INTRODUCTION TO EDUCATION 493240 Credit: 1 year, 1 unit

Students have the opportunity to earn concurrent credit during their second semester from Arkansas State.

This course introduces students to the Education & Training career pathway and prepares them for future careers in teaching and related fields. Students examine child and adolescent development, learning theory, classroom management, instructional strategies, and professional ethics. Emphasis is placed on leadership, communication, and real-world application of teaching practices.

EDUCATIONAL TECHNOLOGY 493290 Credit: 1 year, 1 unit

Prerequisite: Introduction to Education

Students may earn concurrent credit from Arkansas State during the second semester. This project-based course explores the use of technology in online, face-to-face, and hybrid classrooms. Students develop skills in digital integration, communication, collaboration, and digital citizenship, complete classroom observations with a licensed Arkansas teacher, and work toward becoming a Google Certified Educator.

INTRODUCTION TO BEHAVIORAL MENTAL HEALTH 496100 Credit: 1 year, 1 unit

This course introduces students to the foundational concepts of behavioral and mental health. Students explore topics including mental wellness, common mental health disorders, stress management, communication skills, and the impact of trauma on individuals and families. Emphasis is placed on understanding the role of mental health professionals, ethical considerations, and career pathways within the behavioral health field. This course is recommended for students interested in psychology, counseling, social work, or other health-related careers.

PRINCIPLES OF BIOMEDICAL SCIENCE 495000 Credit: 1 year, 1 unit

Prerequisites: Taken or currently enrolled in Biology

In this introductory course of the PLTW Biomedical Science program, students will explore the concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine and research processes while allowing them to design their own experiments to solve problems.

HUMAN BODY SYSTEMS 495010 Credit: 1 year, 1 unit

Prerequisites: Principles of Biomedical Science

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis in the body. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to sol**ve real-world medical cases.**

MEDICAL INTERVENTIONS 495020 Credit: 1 year, 1 unit

Prerequisites: Human Body Systems

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

BIOMEDICAL INNOVATIONS 495030 Credit: 1 year, 1 unit

Prerequisites: Human Body Systems

In the final course of the Biomedical Sciences, students build on the knowledge and skills gained from the previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution.. The only students who can take this class are students who have completed medical intervention.

MEDICAL PROFESSIONS (10-12) Credits: 1 year = 2 credits

Medical Professions provides a general overview of the many health-related occupations and careers in health care. Foundations of Human Anatomy and Physiology and Foundations of Healthcare are core courses in this program of study. Critical knowledge obtained includes medical charting, abbreviations and vital signs, safety, infection control, processes of disease, and employability skills necessary for successful careers in the healthcare industry. Studies will include EMT and Occupational/Physical Therapy. Students receive certifications in CPR, AED, and Heartsaver First Aid through the American Heart Association (AHA). College credit is aligned with BRTC for this course. This is a one-year program of study designed to prepare students to enroll in Pre Nursing. Students are able to receive a Science Flex Credit for Human Anatomy & Physiology. New high technology using an Anatomage Table brings Anatomy to life.

PRE NURSING SERVICES (11-12) Credits: 1 year = 2 credits

Pre Nursing is an advanced study of nursing with courses to get you on track for LPN/RN careers. Preference given to seniors and/or students that have completed year one in Medical Professions. (Sophomores will not be considered for this course.) Courses of study in this program include Medical Terminology, Medical Math for Nursing, and Basic Human Nutrition for Nursing. These courses are aligned for concurrent credit through Black River Technical College. Although this is a one-year program of study, it is designed to be the second year of Health Science Technology courses after completing year one in Medical Professions. This pathway is taught by a Registered Nurse.

NJROTC Curriculum Description (10-12)

NAVAL SCIENCE 1 (ROTC I) **Credits: 1 year, 1 unit**

PURPOSE: To introduce students to the meaning of citizenship, the elements of leadership, and the value of scholarship in attaining life goals; promote an awareness of the importance of a healthy lifestyle, including physical fitness, a proper diet, and controlling stress; drug awareness; provide the principles of health and first aid, geography and survival skills and an overview of Naval ships and aircraft. These elements are pursued at the fundamental level. COURSE CONTENT: Includes introduction to the NJROTC program; introduction to Leadership, Citizenship and the American Government; introduction to Wellness, Fitness, and First Aid to include diet, exercise and drug awareness, introduction to Geography, Orienteering, Survival and Map Reading Skills; Financial Skills and introduction to the U. S. Navy.

NAVAL SCIENCE 2 (ROTC II) **Credits: 1 year, 1 unit**

PURPOSE: To build on the general introduction provided in Naval Science 1, to further develop the traits of citizenship and leadership, and to introduce cadets to the technical areas of naval science and the role of the U. S. Navy in maritime history and the vital importance of the world's oceans to the continued well-being of the United States. COURSE CONTENT: Includes ongoing instruction into Leadership; introduction to Maritime History, including the American Revolution, Civil War, the rise of the U. S. to world power status, World Wars 1 and 2, the Cold War Era and the 1990s and Beyond; introduction to Nautical Sciences to include Maritime Geography, Oceanography, Meteorology, Astronomy, and Physical Sciences.

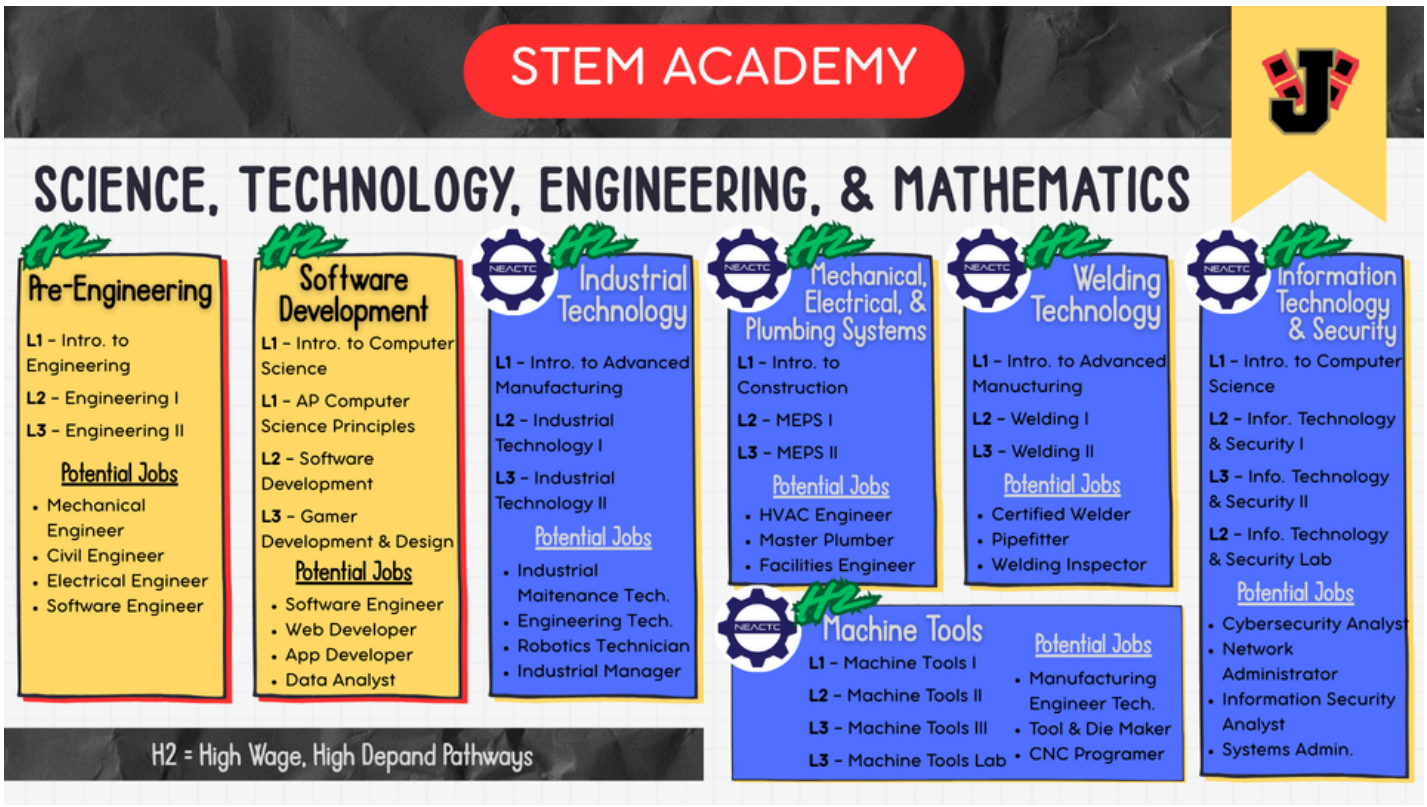
NAVAL SCIENCE 3 (ROTC III) **Credits: 1 year, 1 unit**

PURPOSE: Broaden the understanding of students in the operative principles of military leadership, the concept and significance of teamwork, the intrinsic value of good order and discipline in the accomplishment of objectives, and the importance of sea power and national security. Students gain a more in-depth knowledge of Naval ships and aircraft and an introduction to marine navigation and seamanship. COURSE CONTENT: Includes instruction in Sea Power and National Security, Naval Operations and Support Functions, Military Law, and International Law and the Sea. Provides introduction to Ship Construction and Damage Control, Shipboard Organization and Watch Standing, Basic Seamanship, Marine Navigation, and Naval Weapons and Aircraft. Ongoing instruction in leadership, citizenship and discipline.

NAVAL SCIENCE 4 (ROTC IV) **Credits: 1 year, 1 unit**

PURPOSE: Focused primarily on practical techniques and implementation of learned skills for life after high school. The intent is to assist seniors in understanding and planning for a future based on either further education or potential careers in public, private and non-profit sectors. Classroom activities include seminars, reading assignments, classroom presentations, and practical work to support learned principles. Seniors are mentored/guided in their preparation for life after high school to include college preparation, scholarship applications, and the variety of choices that are available to them in various careers. COURSE CONTENT: Includes instruction in theoretical and applied aspects of College and Career Readiness, Personal Finance, Leadership and Ethics, Cyber Security, and Space Exploration.

Suggested Courses for the Academy of Science, Technology, Engineering, and Math



INTRODUCTION TO ENGINEERING 493960 Credit: 1 year, 1 unit

A level 1 course in the engineering pathway. The major focus of this introductory engineering course is the design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students learn best practices for documenting designs through drawings and adding dimensions. Students use industry standard 3D modeling software and extensive technology to help them design solutions to solve proposed problems, document their work using an engineer's notebook, and communicate solutions to peers and members of the professional community. This course is the first course of the Project Lead the Way Pre-Engineering Pathway.

ENGINEERING I 493970 Credit: 1 year, 1 unit

Prerequisite: Introduction to Engineering

This survey course exposes students to major concepts they'll encounter in a post-secondary engineering course of study. Topics include simple machines, mechanisms, energy, statics, materials, and machine control (robotics). They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work, and communicate solutions. This course uses extensive hands-on and project-based learning strategies. This course is a Level 2 course offered through the Project Lead the Way Pre-Engineering Pathway.

ENGINEERING II 493980 Credit: 1 year, 1 unit

Prerequisites: Introduction to Engineering and Engineering I

Students will learn about various aspects of civil engineering and architecture and apply their knowledge to the design and development of residential and commercial properties and structures. In addition, students use the 3D design software to design and document solutions for major course projects. Students communicate and present solutions to their peers and members of a professional community of engineers and architects.

INTRODUCTION TO COMPUTER SCIENCE 465000 Credit: 1 year, 1 unit

A level 1 course in the Software Development Pathway. This course is for students with no formal computer programming experience. Students will spend the majority of time coding to solve real-world problems in a collaborative environment. The course focuses on developing computational thinking, refining problem-solving skills, and applying key programming concepts.

AP COMPUTER SCIENCE PRINCIPLES 565000 Credit: 1 year, 1 unit

AP Computer Science Principles offers an overview and multidisciplinary approach to teaching the underlying principles of computers. The course will introduce students to the creative aspects of programming, abstractions, the Internet, cybersecurity concerns, and computing impacts.

SOFTWARE DEVELOPMENT 465080 Credit: 1 year, 1 unit

Prerequisites: Introduction to Computer Science or AP Computer Science

This course introduces students to the fundamentals of software development, including programming concepts, problem-solving, coding, testing, and debugging. Students design and create software applications while learning industry-relevant skills and best practices in computer science.

GAME DEVELOPMENT AND DESIGN 465690 Credit: 1 year, 1 unit

Prerequisites: Software Development

This course introduces students to the principles of game design and development, including storytelling, graphics, programming, and interactive media. Students plan, design, and create original video games while applying problem-solving skills, creativity, and industry-standard development practices.

ADVANCED MANUFACTURING/ENGINEERING Credits: 1 year = 2 credits

Intro to Manufacturing, Design for Manufacturing, and Computer Integrated Manufacturing highlight this highly skills-based program of study, which offers several entry level skills and competencies necessary to compete for lucrative careers in manufacturing. Conventional G&M coding, computer aided drafting and design (CAD), computer aided manufacturing (CAM), 3-D printing, First Robotics featuring robotic design, build, and programming, metal fabrication, and concepts in metallurgy are components of the advanced manufacturing program of study. Skills acquired will lead to student careers in CNC programming, CNC operators, entry-level machinists, and quality control technicians, as well as providing a pathway into secondary education in the fields of technology design and engineering. Students use software programs such as Immerse2Learn, Auto Desk Inventor, SolidWorks, Robot C, and FeatureCAM. Students also have the opportunity to join our NASA hardware team. Students gain experience in Aerospace manufacturing via the NASA HUNCH program, which allows students in the Advanced Manufacturing program to make hardware used in the International Space Station, and other Aerospace systems. College credit is available for this pathway through ASUN. Year 2 available for this course.

CONSTRUCTION/HVACR Credits: 1 year = 2-3 credits

Construction/HVACR is a hands-on skills-based program of study designed to prepare students for immediate employment in the Construction and HVAC industry. Foremost instruction in electrical diagramming and wiring is combined with lab activities where participants complete several competency activities in electrical wiring. Students utilize a number of training aids in the HVACR lab including window air conditioners, R-41A, 410A, 404A, and 134A residential split systems, gas-fired furnaces, residential heat pumps, reach-in coolers, and commercial ice makers. Skills-based learning includes activities including soldering, troubleshooting, service, repair, and installation of gas and electric, refrigerated units and air conditioners. Students compete in local and regional electrical wiring competitions as well as HVACR competitions. College credit is available for this pathway through ASUN. Year 2 available for this course..

INDUSTRIAL TECHNOLOGY/ROBOTICS AUTOMATION Credits: 1 year = 2 credits

Industrial Technology offers student training in order to repair, install, fabricate, set-up, adjust, and complete routine, predictive, and preventative maintenance to highly-technical industrial machinery. Six instructional modules integrate curriculum with skills-based, hands-on learning: safety, manufacturing basics, electrical, mechanical, fluid power (hydraulic and pneumatic), and introduction to programmable logic controllers, PLCs and industrial Robotics. High-wage, high-demand career opportunities are available for technicians responsible for preventative, predictive, and routine maintenance and troubleshooting of highly technical industrial, automated equipment to ensure maximum efficiency, effectiveness, reliability and quality assurance. Highest quality, nationally recognized trainers are utilized with actual industrial machinery incorporated for student mastery in the capstone project. College credit is available for this pathway through ASUN. Students may attend for Year 2 in this course.

WELDING TECHNOLOGY Credits: 1 year = 2 credits

The Welding Program of Study is designed to provide a multitude of skills to prepare students for careers in Northeast Arkansas or abroad. Students will become proficient in shielded metal arc welding (SMAW or “stick” welding), gas metal arc welding (GMAW or “mig” welding), and gas tungsten arc welding (GTAW or “tig” welding). Very high-wage, high-demand career opportunities are available for various positions in the field of welding not only in NEA, but globally. Training aids include Lincoln welders similar to those utilized in local industry. Welding simulators allow conservation of raw materials with the most advanced student learning experience available today. Students are expected to become proficient welders while attaining national NCCER and AWS certification. College credit is available through Black Students may attend for Year 2 if meet prerequisite guidelines.

Global Electives

MUSIC

NINTH GRADE BAND 451000 Credit: 1 year, 1 unit
Prerequisite: Beginning Band and 8th Grade Band
This band is the top performing group at the junior high level. This group auditions for the junior clinic bands, performs concert literature, participates in contests, presents concerts, participates in solo and ensemble contests, and plays for junior high home football games and pep rallies. Students will explore different eras and periods of music. Students are expected to achieve a high level of performance on their instruments.

NINTH GRADE JAZZ BAND 451200 Credit: 1 year, 1 unit
Prerequisite: Audition and current membership in 9th Grade Band
Students in jazz band are selected by audition and must be a current member of the 8th and 9th grade band. This band performs jazz literature of various styles at basketball games, elementary schools, and civic clubs and participates in contests

INSTRUMENTAL MUSIC – BAND (10-12) Credit: 1 year, 1 unit
Prerequisite: Audition
This course is taught during both semesters and emphasis is placed on performance. In the fall, the band performs at football games, marching contests, parades, Christmas concerts, etc. Participation and quality of marching and playing are stressed.
The following descriptions are for the second semester of the Instrumental Music program.
SECOND SEMESTER - SYMPHONIC WINDS performs quality music at an advanced level; studies wind and orchestra literature for all periods of music. Emphasis is on performance and on individual improvement. This ensemble is active in many concerts and festivals. Placement in this group is by audition.
SECOND SEMESTER - CONCERT BAND emphasis is on performance of band music and individual student progress. This ensemble is active in many concerts and festivals.

JAZZ BAND (10-12) Credit: 1 year, 1 unit
JAZZ II (451210), JAZZ III (451220), JAZZ IV (451230)
Prerequisite: Audition; current membership in marching and concert band

CHOIR

GIRLS CHORUS (9) **45200G Credit: 1 year, 1 unit**
This course is open to any female student regardless of prior choral music experience and is a training choir to enforce learning in musical literacy, proper vocal technique, and basic sight-singing. Students enrolled in this class participate in Choral Performance Assessment (CPA), seasonal concerts, and All-Region Choir tryouts.

MALE CHORUS (9) **45200B Credit: 1 year, 1nit**
Open to any male student regardless of prior choral music experience, this course emphasizes musical literacy, proper vocal technique, and basic sight singing. Students enrolled in this class participate in Choral Performance Assessment (CPA), seasonal concerts, and All-Region Choir tryouts.

CHORALIERS (ANNIE CAMP) 452000 Credit: 1 year, 1 unit
Prerequisite: a year of choral singing; teacher approval
Choraliers is a select choir for advanced female singers. This group participates in Choral Performance Assessment (CPA), All-Regional Choir tryouts, seasonal concerts, and provides music for school and community functions. Musical literacy, proper vocal technique, and advanced sight-singing are emphasized.

HARMONY CHOIR (ANNIE CAMP) 45200H Credit: 1 year, 1 unit
Prerequisite: A year of choral singing; teacher approval.
Harmony Choir is a select choir made up of intermediate female singers who participate in Choral Performance Assessment (CPA), seasonal concerts, and All-Region Choir tryouts. Continued training in musical literacy, proper vocal technique, and sight-singing is emphasized.

Global Electives

HURRICANE SINGERS (10-12) 45200B Credit: 1 year, 1 unit
This course is open to any student regardless of prior choral music experience and is a training choir to enforce learning in musical literacy, proper vocal technique, and basic sight-singing. Students enrolled in this class participate in Choral Performance Assessment (CPA), seasonal concerts, and All-Region Choir tryouts.

SOPHOMORE SELECT CHORUS (10) 45204S Credit: 1 year, 1 unit
Prerequisite: Audition* for the JHS Choral Director, 1 year participation in Junior High Choir, Letter of Recommendation from Junior High Director
This SATB ensemble is a select choir for the advanced sophomore singer having had prior Junior High training. Students participate in concerts and festivals. Students will be required to audition for and participate in All Region/All State auditions and clinics. The class concentrates on musical literacy, sight reading, and proper vocal techniques. *Audition will include a prepared song of choice and demonstration of sight reading skills.

CAMERATA SINGERS (11-12) 452050 Credit: 1 year, 1 unit
Prerequisite: Audition* for the JHS Choral Director plus 1 full year experience in JHS Male Chorus, JHS Female Chorus, or Sophomore Select Chorus
This ensemble is a select group of advanced singers. Students are required to perform in concerts, festivals, and for community events. Ensemble members are required to audition for and participate in All Region/All State auditions and clinics. Students perform a variety of music and must have advanced musical literacy skills, advanced sight reading skills, and advanced proper technique skills. *Audition will include a prepared song of choice and demonstration of sight reading skills.

CHAMBER CHORALE (11-12) 452060 Credit: 1 year, 1 unit
Prerequisite: Audition* for the JHS Choral Director plus 1 full year experience in JHS Male Chorus, JHS Female Chorus, or Sophomore Select Chorus
This ensemble is the most selected vocal group on campus. Students are required to perform in concerts, festivals, and for community events. Ensemble members are required to audition for and participate in All Region/All State auditions and clinics. Students perform the highest level of musical difficulty and must have the versatility of vocal technique in order to perform all musical styles. Ensemble members must have advanced musical literacy skills, advanced sight reading skills, and advanced proper technique skills. *Audition will include an evaluation of the student's prior ensemble participation, a prepared song of choice and demonstration of sight reading skills.

AP MUSIC THEORY (11-12) 559010 Credit: 1 year, 1 unit
Advanced Placement Music Theory is a rigorous advanced music course in music composition equivalent to a first year college course taken by music majors. It introduces students to musicianship, theory fundamentals, music materials and procedures, and most often integrates aspects of melody, harmony, texture, rhythm, form, musical analysis, composition, and to some extent, music history and literature. In addition, students will be learning sight-sing fundamentals using the solfege system. The course not only meets high school requirements for music but also gives each student the opportunity to earn hours of college credit, pending a satisfactory score on the AP Music Theory exam. Each student enrolled in this class will be expected to take the exam. No prerequisites are necessary but current enrollment in the high school band or choir, and /or previous years of private instrumental or voice lessons is highly recommended. This course is recommended for students planning to major in music at college. An AP contract that outlines course requirements must be signed by both the student and parents/guardians and the guidelines within will be strictly enforced.
*Disclaimer: Course offerings are contingent upon sufficient student enrollment. Courses with low enrollment requests may not be offered.

FINE ARTS MUSIC (ASU CONCURRENT CREDIT) (11-12) 559000 Credit: 1/2 year, 1 unit
Prerequisite for Both: ACT Composite of 19 and a 19 in English and Reading on the ACT; acceptance to ASU; $120 course fee and one time $15 registration fee.
Fine Arts – Music is an introduction to music for the listener who has had no formal musical training or experience. Course is a study of musical styles and composers and their cultural and historical contexts.

Global Electives

ART I

VISUAL ART I (9-12) 450000 Credit: 1 year, 1 unit
Is a two-semester course designed to teach students to apply the elements of art and the principles of design. Students are expected to use a variety of media, techniques, processes and tools to create original artwork that demonstrates understanding of aesthetic concerns and complex compositions.

CERAMICS 1 450500 Credit: 1 year, 1 unit
Ceramics 1 is an introductory course in ceramics covering the three basic methods of hand building. Students will produce ceramic art work using pinch, slab, and coil techniques. Students will learn the basic vocabulary of ceramics as well as methods of surface treatment, firing, and other related aspects. Art history, aesthetics and art criticism will be incorporated throughout the course.

CERAMICS II 450510 Credit: 1 year, 1 unit
Ceramics ll is a two-semester course designed to teach students to apply the elements of art and the principles of design. Students are expected to use a variety of media, techniques, processes, and tools to create original ceramic artwork that demonstrates understanding of aesthetic concerns and complex compositions. Students will develop, expand, and increase their real life application of problem solving through maturation. Students will create, critique, reflect, and make connections to ceramic art. Students will exhibit original ceramic artwork and develop portfolios that reflect their personal growth.

SCULPTURE 450600 Credit: 1 year, 1 unit
The prerequisite for Sculpture is Visual Art I or Ceramics I.
Students will explore three dimensional form in traditional and nontraditional materials. The student will study form, volume, and space relationships through the exploration of decorative, utilitarian, and conceptual approaches to sculpture. The study of sculptural form in a variety of media during various historical and cultural periods will guide the development of the student's ability to make personal aesthetic and critical judgments.

ART II Digital (10-12) 45003D Credit: 1 year, 1 unit
Prerequisite: C or higher in Visual Art I
Digital Art is a yearlong intro class into the industry standard programs for digital design for both print and web production, Photoshop and Illustrator. Students will use these programs to explore photography and graphic design through exercises and projects.

ART III Digital (11-12) Credit: 1 year, 1 unit
Prerequisite: C or higher in Visual Art II Digital
Digital Art III is an upper level yearlong class using the industry standard programs for digital design for both print and web production, Adobe Photoshop, Adobe Illustrator and Procreate. Students will use these programs to explore digital art creation through exercises and projects.

ART II Drawing (10-12) 450030 Credit: 1 year, 1 unit
Art II Drawing/Painting is a course designed to continue developing drawing and painting skills and techniques. This course is for students who have taken Art I and want to continue refining their traditional art making skills. The course emphasizes the exploration of various drawing and painting materials, techniques, and concepts. During the course students will experiment with different styles and approaches to drawing and painting. During the course students will use shading pencils, color pencils, watercolor, acrylic, drawing pens, charcoal, and pastels to create a variety of works such as portraits, landscapes, still lifes, abstract works, and multimedia works. Throughout the course students will engage in critiques and peer evaluations to refine their personal artistic vision.

ART III Drawing (11-12) 450040 450040 Credit: 1 year, 1 unit
Is a yearlong class where students will build on skills learned in Visual Art II. They will develop, expand and increase their real life application of problem solving through artistic maturation. Students will create, critique, reflect and make connections to art.
Pre-AP Fine Arts Visual is a studio-based course that develops students' creative thinking, artistic skills, and visual literacy. Students explore a variety of media while engaging in analysis and interpretation of artworks, peer-to-peer dialogue, experimentation with materials and ideas, and reflective writing about their creative process. Through studio projects, critique, and investigation of significant works of art, students learn to generate ideas, revise their work, and communicate meaning visually. This course prepares students for advanced high school art courses, including AP Art and Design, while

Global Electives

Pre-AP Fine Arts: Visual Art 450100 Credit: 1 year, 1 unit

Pre-AP Fine Arts Visual is a studio-based course that develops students' creative thinking, artistic skills, and visual literacy. Students explore a variety of media while engaging in analysis and interpretation of artworks, peer-to-peer dialogue, experimentation with materials and ideas, and reflective writing about their creative process. Through studio projects, critique, and investigation of significant works of art, students learn to generate ideas, revise their work, and communicate meaning visually. This course prepares students for advanced high school art courses, including AP Art and Design, while building the creative habits and critical thinking skills needed to be successful in future careers.

AP STUDIO ART Drawing, 2D, 3D (11-12) Credit: 1 year, 1 unit
(Prerequisite to take Art I and Art II)
AP Studio 2D, 3D, and AP Drawing Art have been developed to accommodate serious art students who have expressed an interest in completing the AP 2-D Design or Drawing Portfolio. Through studio practice, application of design concepts and informed decision making, these students will assemble a body of artwork that demonstrates a high level of quality and growth over time of content, technique, and process. Students will investigate both parts of their portfolios as required by the AP College Board: Sustained Investigation and Selected Works. All work will be documented throughout the year by digital photos and by a Google Drive Portfolio. Because of the multilevel nature of the class, AP students must be able to work independently, have a basic knowledge of media, and be able to take initiative and risks within their art with the teacher as a guide. It is recommended that students have completed Art I and a level two art course that relates to the AP art course
*Disclaimer: Course offerings are contingent upon sufficient student enrollment. Courses with low enrollment requests may not be offered.

Global Electives

SPEECH/DRAMA

THEATRE APPRECIATION (9-12) 453130 Credit: 0.5 credit, 1 semester (include ½ unit of Fine Arts Credit)
Theatre Appreciation is a one-semester course in which students will develop fundamental theatre skills through academic study. Students will develop an understanding of basic theatre skills and the history of the theatre, analyze and evaluate artistic work, and discover connections between theatrical works and societal, cultural, and historical contexts. The Standards for Accreditation require schools to offer a one-half unit survey of fine arts OR one-half unit of advanced art or advanced music. Theatre Appreciation may be used to fulfill this requirement. Theatre Appreciation also fulfills the one-half unit of fine arts required for graduation.

THEATRE 1 (9-12) 459100 Credit: 1 year, 1 unit (include ½ unit of Fine Arts Credit)
Theatre 1 is a two-semester course in which students learn and demonstrate mastery of theatre academic and performance skills. At the Theatre 1 level, students will explore theatre fundamentals, analyze and interpret scripts, evaluate artistic work, and use those evaluations to deepen the meaning of their work. The Standards for Accreditation require schools to offer a one-half unit of survey of fine arts OR one-half unit of advanced art or advanced music. The first semester of Theatre 1 may be used to fulfill this requirement. Theatre 1 also fulfills the one-half unit of fine arts required for graduation.

THEATRE 2 (10-12) 459110 Credit: 1 year, 1 unit
Prerequisite: Theatre 1
This performance-based course is designed for the student interested in learning more about theatrical performance. It builds on the areas covered in Theatre 1. This course provides a more in depth coverage of theatrical performance, character analysis and development, dramatic and thematic structure and ways to combine all of these into an integrated art. Participation in stage productions is required. Periodic after school and weekend workdays may be required during play productions.

THEATRE 3 (11-12) 459120 Credit: 1 year, 1 unit
Prerequisite: Theatre 2
This performance-based course is designed for the student interested in learning more about the theatrical performance. It builds on the areas covered in Theatre 2. This course provides a more in depth coverage of theatrical performance, character analysis and development, dramatic and thematic structure, directing and ways to combine all of these into an integrated art. Participation in stage productions is required. Periodic after school and weekend workdays may be required during play productions.

TECHNICAL THEATRE 1 459240 Credit: 1 year, 1 unit (include ½ unit of Fine Arts Credit)
Stagecraft I is a year-long course which provides students with both exposure to and experience in all elements of technical theatre, including scenery, props, lighting, sound, costume, and makeup. The four strands emphasize creating, performing/presenting, responding and connecting. In Creating, students generate ideas and original tangible works. In Performing and Presenting, students perform tasks associated with technical theatre and present their work to others. Through Responding, students examine works already created by themselves, their peers, or others to analyze the artistic merit and refine work. Through Connecting, students discover connections between theatrical works and historical, societal, and cultural context. The Standards for Accreditation require schools to offer a one-half unit survey of fine arts OR one-half unit of advanced art or advanced music. The first semester of Stagecraft 1 may be used to fulfill this requirement. Stagecraft 1 also fulfills the one-half unit of fine arts required for graduation.

Global Electives

TECHNICAL THEATRE 2 459250 Credit: 1 year, 1 unit
Prerequisite: Technical Theatre 1
This class builds on the areas learned in Stagecraft 1. This course provides a more in depth coverage of technical theater. In addition, students in this course are trained to become production leaders. Participation in stage production is required. Periodic after school and weekend workdays may be required during play production.

TECHNICAL THEATRE 3 459260 Credit: 1 year, 1 unit
Prerequisite: Technical Theatre 2
This class builds on the areas learned in Stagecraft 2. This course provides a more in depth coverage of technical theater. In addition, students in this course are trained to become production leaders. Participation in stage production is required. Periodic after school and weekend workdays may be required during play production.

PERSONAL COMMUNICATIONS 414200 Credit: 1 semester, ½ unit (includes ½ unit of Oral Communication credit)
Personal Communication will provide students with an understanding of the dynamics of effective communication while speaking, listening, and responding. Students will apply the principles of ethical communication, practice communication competencies, demonstrate effective intrapersonal and interpersonal communication, and deliver a variety of speeches. This course will include but is not limited to ethical communication, responsible social media usage, communication barriers, mass media, conflict resolution, leadership styles, business etiquette, and interviews. Students will deliver formal and informal speeches, participate in debate, and perform oral readings. Personal Communication (One Semester) fulfills the .5 unit of Oral Communication required for graduation.

PROFESSIONAL COMMUNICATIONS 414210 Credit: 1 semester, ½ unit (includes ½ unit of Oral Communication credit)
Professional Communications exposes students to a variety of speaking situations where they will practice effective intrapersonal communication techniques. Students will study and practice communication competencies in their professional and personal interactions with others. Students study how to effectively communicate in front of their peers in small group and whole class public speaking assignments. Students will engage in a variety of activities designed to prepare them for communication in the workforce setting, such as interviews, resumes, and intra-office communications.

DEBATE 1 (9-12) 414050 Credit: 1 year, 1 unit (includes ½ unit of Oral Communication credit)
This performance-based class is specifically designed to train students in argumentation, debate, extemporaneous speaking, student congress and mock trial. Participation in forensics tournaments is encouraged. It may be necessary to have after school practice periodically.

DEBATE 2 (10-12) 414060 Credit: 1 year, 1 unit
Prerequisite: Debate 1
This performance-based class is specifically designed to build on skills learned in Debate 1. Students will continue their training in argumentation, debate, extemporaneous speaking, student congress and mock trial. Participation in forensics tournaments is required. It may be necessary to have after school practice periodically.

DEBATE 3 (11-12) 414070 Credit: 1 year, 1 unit
Prerequisite: Debate 2
This performance-based class is specifically designed to build on skills learned in Debate 2. Students will continue their training in argumentation, debate, extemporaneous speaking, student congress and mock trial. In addition, students will being work in peer coaching. Participation in forensics tournaments is required. It may be necessary to have after school practice periodically.

DEBATE 4 (12) 414080 Credit: 1 year, 1 unit
Prerequisite: Debate 3
This performance-based class is specifically designed to build on skills learned in Debate 3. Students will continue their training in argumentation, debate, extemporaneous speaking, student congress and mock trial. In addition, students will continue their work in peer coaching. Participation in forensics tournaments is required. It may be necessary to have after school practice periodically.

Global Electives

OTHER ELECTIVES

ACADEMIC READING 419140 Credit: 1 year, 1 unit
A year-long course designed to support grade-level reading development for students exhibiting characteristics of dyslexia. Through explicit, structured instruction and targeted interventions, study strengthen comprehension and literacy skills using a variety of fiction and non-fiction texts

STRATEGIC READING 419120 Credit: 1 year, 1 unit
A course designed to strengthen reading comprehension by guiding students in evaluating a variety of fiction and non fiction texts and literature. Instruction focuses on meaningful content, ongoing assessment, and explicit skill development to support literacy growth, while adding supplemental instruction to support grade level standards.

AP HUMAN GEOGRAPHY (11-12) 579080 Credit: 1 year, 1 unit
This introductory college course in human geography will introduce students to the systematic study of patterns and processes that have shaped human understanding, use and alteration of the Earth's surface. Students learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. They will also learn about the methods and tools geographers use in their research and applications. This class is designed to meet AP standards and requirements (these can be found on the AP College Board website), and demands a serious commitment of time beyond the normal class period. An AP contract that outlines course requirements must be signed by both the student and parents/guardians and the guidelines within will be strictly enforced.

AP UNITED STATES HISTORY (11-12) 570020 Credit: 1 year, 1 unit
Special Information: Students with a 19 ACT score and a 19 in reading prior to August have the option of earning concurrent credit through ASU for US History HIST 2763/HIST2773. $120 course fee, $15 one-time registration fee and acceptance to ASU is required if the concurrent option is chosen.
The AP United States History program is designed to provide students with analytical skills and factual knowledge necessary to deal critically with the problems and materials in U.S. History. Students should learn to assess historical materials - their relevance to given interpretive problems, their reliability, their importance - and to weigh the evidence and interpretations presented in historical scholarship. This course is extremely demanding and requires a serious commitment of time beyond the normal class period. The course will culminate in the Advanced Placement examination traditionally given in May. An AP contract that outlines course requirements must be signed by both the student and parents/guardians and the guidelines within will be strictly enforced.

Global Electives

AP EUROPEAN HISTORY (11-12) 579170 Credit: 1 year, 1 unit

Successful completion of either AP World History or AP US History is recommended (but is not required).

AP European History is a college-level course that introduces students to cultural, economic, political, and social developments shaping Europe since 1450. Students are expected to apply analytical skills in interpreting historical evidence to understand the development of society and effectively express their understanding in writing. The course will be fast-paced and demands a serious commitment of time beyond the normal class period. The course will culminate with the AP examination traditionally given in May. An AP contract that outlines course requirements must be signed by both the student and parents/guardians and the guidelines within will be strictly enforced.

*Disclaimer: Course offerings are contingent upon sufficient student enrollment. Courses with low enrollment requests may not be offered.

AP ART HISTORY (11-12) 559030 Credit: 1 year, 1 unit

This course is designed to provide the same benefits to secondary school students as those provided by an introductory college course in art history. In the course, students examine major forms of artistic expression from the ancient world to the present and from a variety of cultures. They learn to look and analyze works of art within their historical context, and to articulate what they see or experience in a meaningful way. An AP contract that outlines course requirements must be signed by both the student and parents/guardians and the guidelines within will be strictly enforced.

AP PSYCHOLOGY (10-12) 579120 Credit: 1 year, 1 unit

Prerequisite: Biology

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. An AP contract that outlines course requirements must be signed by both the student and parents/guardians and the guidelines within will be strictly enforced.

AP AFRICAN AMERICAN HISTORY 679000 Credit: 1 year, 1 unit

AP African American Studies is an interdisciplinary course that examines the diversity of African American experiences through direct encounters with authentic and varied sources. Students explore key topics that extend from early African kingdoms to the ongoing challenges and achievements of the contemporary moment. Given the interdisciplinary character of African American studies, students in the course will develop skills across multiple fields, with an emphasis on developing historical, literary, visual, and data analysis skills. This course foregrounds a study of the diversity of Black communities in the United States within the broader context of African and the African diaspora.

AP COMPARATIVE GOVERNMENT (11-12) 579180 Credit: 1 year, 1 unit

AP Comparative Government and Politics is an introductory college-level course in comparative government and politics. The course uses a comparative approach to examine the political structures; policies; and political, economic, and social challenges of six selected countries: China, Iran, Mexico, Nigeria, Russia, and the United Kingdom. Students cultivate their understanding of comparative government and politics through analysis of data and text-based sources as they explore topics like power and authority, legitimacy and stability, democratization, internal and external forces, and methods of political analysis.

INTRODUCTION TO PSYCHOLOGY (10-12) 474400 Credit: 1 semester, ½ unit

Prerequisites: Completion of Biology

This course is an introduction to basic procedures in the study of behavior and to principles of theoretical and experimental issues underlying mental and emotional states. Behavior will be looked at through scientific methods - examining the brain structures and functions. A historical view of the development of psychology as a social science will help define present day techniques.

Global Electives

INTRODUCTION TO SOCIOLOGY (10-12) 474500 Credit: 1 semester, 1 unit
Prerequisites: Completion of Biology
Sociology introduces students to the social systems that are the foundation of society. An emphasis will be placed on culture and socialization, social status, social institutions, and social problems; as well as the effects and influence on behavior. Using the tools and techniques of sociologists, students will study changes taking place in society and examine their causes, consequences, and possible solutions. Students will read major sociological theorists as well as consider how sociologists approach issues. This course stresses application, problem-solving, higher-order thinking skills, and use of classroom performance-based/open-ended assessments with rubrics.

PSYCHOLOGY (CONCURRENT CREDIT) 593030 Credit: 1 semester, 1 unit
Must Black River Technical College requirements for admission.
This course provides an introduction to the scientific study of behavior and mental processes. Students explore topics such as human development, personality, learning, motivation, and psychological disorders. Emphasis is placed on research methods, critical thinking, and real-world applications. Students have the opportunity to earn concurrent college credit through Black River Technical College.

SOCIOLOGY (CONCURRENT CREDIT) 579900 Credit: 1 semester, ½ unit
Must Black River Technical College requirements for admission.
This course introduces students to the study of society, social relationships, and cultural influences on behavior. Topics include socialization, group dynamics, social institutions, diversity, inequality, and current social issues. Students analyze how individuals and groups interact within society while developing critical thinking and analytical skills. Students have the opportunity to earn concurrent college credit through Black River Technical College.

COLLEGE & CAREER READINESS 493880 Credit: 1 semester, ½ unit
This course is designed to provide the student with the necessary skills to evaluate who they are, what they need in a career, and what they need from education to be prepared to refine their choices through a decision-making process. It helps the student master the skills most needed by 21st century employers. This course is recommended for the junior or senior year to assess labor market information, personal academic and career ready potential, and make applications to postsecondary institutions.

CREATIVE WRITING 417010 Credit: 1 semester, ½ unit
Creative writing is designed to engage students in the writing of poetry, short fiction, and personal narratives with an emphasis on developing and exercising imagination. Students will analyze and discuss exemplary texts to develop creative writing skills. Students will critique and refine writing through guided discussions, collaborative revisions, and individual reflections. Students will produce a portfolio of creative work that reflects student growth and understanding of the techniques of published authors. Students will share writing in a variety of ways and research methods for publishing original work.

DRIVER'S EDUCATION 69004F Credit: 1 semester, ½ unit
Every student must have a valid Arkansas license or learner's permit before the first day of class. Seniors will be given the first opportunity to enroll, followed in order by juniors, sophomores. The course will consist of classroom/book material as well as on the road driving experience. Students will learn the rules and laws of Arkansas roadways and highways, basic driving maneuvers, and essential car care basics. Guest speakers will include local police officers, insurance specialists, paramedics, and automobile experts.

EAST LAB Credit: 1 year, 1 unit
EAST I (560010); EAST II (560020); EAST III (560030); EAST IV (560040)
Prerequisite: teacher application with teacher recommendation
EAST stands for Environmental And Spatial Technology. EAST is a student driven, student-led class that is community/school service project based. Students will use industry quality technology (virtual reality, computer graphics and animation, video cameras, music and video editors, GPS – global positioning system and GIS – geographic informational systems etc.) to complete projects in a team with other EAST students.

Global Electives

ORGANIZATIONAL LEADERSHIP 492780 Credit: 1 semester, ½ unit
This course introduces a range of concepts, theories, and practices important for a basic understanding of management. Includes management and the management function of planning, organizing, directing, and controlling.

PERSONAL FINANCE 491990 Credit: 1 semester, ½ unit
This is a one-semester course designed to increase personal finance knowledge and skills and prepare students to successfully manage financial resources. This course also focuses on the individual's role and financial responsibilities as a student, citizen, consumer, and active participant in the business world. Emphasis is also placed on activities and competitions within career and technical student organizations (i.e., FBLA, FCCLA, and DECA).

INTERNSHIP (WORK BASED LEARNING) 493860 Credit: ½ unit - 2 units (Depending on number of hours worked)
Internship course is a paid or unpaid experiential work-based learning experience available to all students. This course integrates knowledge and theory in which students will connect with professionals and experience valuable workplace skills. Internship includes both classroom and worksite experience.

The student shall:

- Be employed prior to enrolling in the class or at the end of the second week of school. Students that are not employed by the end of the second week must be withdrawn from the class.
- Receive guided classroom and worksite instruction that incorporates applied learning activities.
- Provide proof of work hours.
- Document and place each completed classroom and worksite training competency in a portfolio. The student shall receive this portfolio at the end of the course.

COURSE CREDITS: Students can earn a maximum of 4 credits in a two-year period, at a rate of 1 credit per semester. To earn 2 credits PER YEAR, a student will need 36 hours of classroom instruction (at least 1 hour per week) and 240 work hours (approximately 7 hours per week). 1 credit may be granted for an entire year for students that work 120 hours and are in class at least 36 hours.

STUDY HALL 999000 Credit: 0
A supervised period for students to have teacher intervention, practice effective study habits, review class materials, etc. This is a non-academic activity that does not earn academic credit.

Jonesboro High School Clubs and Organizations

Jonesboro School District strives to not only educate the child academically, but assist in the development of students as complete individuals. With that goal in mind, Jonesboro High School offers a variety of clubs to appeal to students with varied interests - ranging from clubs that are academically based, such as the foreign language clubs, to honorary organizations (Beta Club, Mu Alpha Theta, and National Honor Society), to leadership (Student Council, FBLA, etc.), sports ("J" Club and FCA), drug prevention (OUT OF THE DARK), to those clubs that are sponsored by civic organizations whose general intent is philanthropic. It is our belief that by participating in these organizations, students can develop both leadership and social skills, which will help them become happier, more productive citizens after they leave the Jonesboro School District.

AMNESTY INTERNATIONAL:
This club works to better understand and raise awareness of the struggles of humans across the globe. Focus area is human trafficking.

ART CLUB
The Art Club is open to anyone, not just art students. Each year the club designs and sells homecoming T-shirts as a money making project.

DRAMA/THESPIAN CLUB
This organization acknowledges participation in theatre activities by awarding points for a variety of theater related responsibilities. A minimum of 10 points is required by membership. Once a student reaches 60 points he/she is named Honor Thespian. Honor Thespians receive cords to wear at graduation.

CANE LIBRARY BOOK CLUBS
Cane Library hosts Book Clubs that meet during lunches each semester. Students sign up with the Library Media Specialist, and then student groups vote on which books to read. Meetings are once a week until the book is finished. New groups form each semester.

D.S.A (Don't Suffer Alone):
The purpose of the club is to end the stigma surrounding mental health, to have conversations about our mental health, and to know that we are never alone in our struggles.

EDUCATORS RISING
Educators Rising is a student organization that cultivates future educators by providing middle and high school students with hands-on teaching experiences, mentorship, and career exploration to build a strong workforce for the teaching profession.

FAMILY, CAREERS, AND COMMUNITY LEADERS OF AMERICA
The goal of FCCLA is to provide opportunities for members to develop leadership and personal growth through activities that focus on the multiple roles of family member, wage earner, community leader and JHS student. Any student who is currently enrolled in, or has previously taken, the Family and Consumer Science class is eligible for membership. Cost: (National, State and Local Dues)

FELLOWSHIP OF CHRISTIAN STUDENTS
FCS is a group of students committed to fellowship, growing spiritually and reaching out to others in word and deed. Requirements for Membership: JHS active student.

FUTURE BUSINESS LEADERS OF AMERICA
FBLA is a national organization for all students who are interested in current facets of business. The activities of FBLA provide an opportunity for students to prepare for business occupations. Members of FBLA learn how to engage in individual and group business enterprises; how to hold office and direct the affairs of the group; how to work with representatives of other student organizations; and how to compete honorably with their peers on the local, district, state, and national levels. Other FBLA activities include: Attending Leadership Conferences, fundraisers, participating in homecoming activities, supporting local charities, having a Christmas party, having a spring awards banquet, providing scholarships, providing community service projects, and getting involved in numerous other activities. Cost: (National, State and Local Dues)

Jonesboro High School Clubs and Organizations

HERICANES
Any girl from the Senior Class is welcome to join. The Super Seniors participate in Homecoming events; as well as, supporting other sports groups.

HOSA
The mission of HOSA is to empower HOSA-Future Health Professionals to become leaders in the global health community through education, collaboration, and experience. The purpose of the HOSA organization is to develop leadership and technical HOSA skill competencies through a program of motivation, awareness and recognition, which is an integral part of the Health Science Education instructional program. This Club is for biomedical students only. Students must be enrolled in a biomedical class.

INTERACT
Interact is the high school arm of the Rotary Club. The club participates in various community service projects including, community clean-ups, Fall/Spring Festivals at JKC, Pre-K, and elementary, etc. Dues to join this club is 1 new children's book for a 3-5 year old. Any student who gets at least 80 service hours by graduation will be eligible for an up to $3,000 scholarship, which is given by Rotary of Jonesboro.

KEY CLUB
The JHS Key Club is a civic service organization sponsored by the Jonesboro Kiwanis Club.Key Club is the oldest and largest international, student-led service organization for high school students, aiming to build character, leadership, and community through volunteering. All members must achieve a minimum of 50 service hours annually.

MU ALPHA THETA
Mu Alpha Theta is a national organization designed to acknowledge and promote interest in mathematics. Membership is only by invitation. To be eligible for membership, a student must complete Algebra II with a 3.5 GPA in all math courses and have a 3.0 GPA overall.

NATIONAL HONOR SOCIETY
Students are invited to apply for admission to NHS based on a GPA of 3.75. Each eligible student then fills out an activity sheet which is submitted to a faculty committee who evaluates the student's suitability for membership, based on high achievement in all of the following areas: leadership, scholarship, community service and character. During the school year, each member is expected to complete 10 hours of community service, independently. NHS participates, as a club, in a variety of activities during the school year

NATIONAL SPANISH HONOR SOCIETY
The National Spanish Honor Society is an honor club that is invitation only for students in Spanish 3, AP Spanish Language, or AP Spanish Literature who meet both grade point requirements (overall GPA and Spanish GPA) and have high recommendations from their teachers. The members of this club perform service that is connected with Spanish and the Hispanic community. Members in good standing their senior year may qualify to wear the Societal Honoraria Hispánica cord at graduation.

QUIZ BOWL
Quiz bowl is a game in which two teams compete head-to-head to answer questions from all areas of knowledge, including history, literature, science, fine arts, current events, popular culture, sports, and more. This is a AAA sport where students can showcase their general knowledge over certain topics, compete against teams from around the state, and have the opportunity to earn scholarships and compete individually at the state level.

ROBOTICS CLUB
Robotics is an extra-curricular club open to any JHS student. The club meets on Mondays/Thursdays after school. They design, build, and program a robot to compete in the annual VEX Robotics Competition. Students must be able to work cooperatively with a team of students. Competitions are mainly held on Saturdays from late October through mid-March. Competition teams begin working on the design/plan of their robots in May of the previous year, when the new game is revealed. Cost: (Local dues)

Jonesboro High School Clubs and Organizations

STEM SCIENCE CLUB

STEM Science Club (an ACS-certified Chemistry Club) is an organization for students who want to explore science beyond the classroom through labs, demonstrations, service projects, and guest speakers. Members can participate in focused mini-clubs such as:

- Women in STEM - a community geared towards female students that highlights women working in STEM and social science careers, and hosts a large annual Women in STEM conference with featured professionals.
- Science Olympiad - These tournaments are rigorous academic interscholastic competitions that consist of a series of hands-on, interactive, challenging, and inquiry-based events that are well-balanced across the various disciplines of biology, earth science, environmental science, chemistry, physics, engineering, and technology.

STUDENT COUNCIL

The JHS Student Council is a student government organization. Class officers and representatives are elected by their peers and serve one-year terms. Representatives also are appointed by sponsors of the high school's many other clubs and organizations. Student Council responsibilities include facilitating high school tours and information sessions; planning and executing Homecoming activities, including the pep rally, parade, presentation of Homecoming royalty, the Homecoming dance, and the JHS Powder Puff football game; community service projects; and funding a senior leadership scholarship.

TAU DELTA PI

This organization promotes school and community activities and helps its members develop leadership skills and creates unity and a mutual understanding. Membership is open to any JHS student who is in good standing with the school.

WOMEN IN BUSINESS

Women in Business club for high school is a supportive, educational, and empowering community designed to introduce young women to entrepreneurship, corporate leadership, and financial literacy. Guest speakers, volunteering, and workshops are offered to members.

YOUNG DEMOCRATS

The Young Democrats are committed to creating a Democratic majority in our state's and nation's governing bodies. When political campaigns are scarce, Young Democrats engage their classmates in the debate over our nation's future. Election year only.

YOUNG REPUBLICANS

The Young Republican Club is a new addition to Jonesboro High School organizations. This club is involved in campaigning for the Republican candidates. The Young Republicans hold regular meetings to raise awareness of political affairs, offer service opportunities and assist the local Republican headquarters in any way possible. Election year only.

NEACTC Clubs and Organizations

FAMILY, CAREERS, AND COMMUNITY LEADERS OF AMERICA (FCCLA)

Description: The goal of FCCLA is to provide opportunities for members to develop leadership and personal growth through activities that focus on the multiple roles of family member, wage earner, community leader and Northeast Arkansas Career and Technical Center student. Any student who is currently enrolled in, or has previously taken, a Family and Consumer Science class is eligible for membership. Cost: (National, State and Local Dues.)

HEALTH OCCUPATIONS STUDENTS OF AMERICA (HOSA)

Class: Medical Procedures Education Description: HOSA provides leadership, service, and competition opportunities related to health care. Meeting Time: During class as needed. Other: HOSA activities include state and national competition, state leadership conference, and a fundraiser.

SKILLSUSA

Classes: Advertising Design, HVACR, Automotive Collision, Automotive Service Technology, Food Production and Management Services, Drafting and Design, Electronics, Medical Professions, Precision Manufacturing and Machining, and Travel and Tourism. Description: Skills USA serves trade, industrial, and technical students by developing their skills and leadership qualities. SkillsUSA instills spirit and a desire to learn, to grow, and to become a productive citizen. Students will be able to compete in state and national competitions in their chosen fields. Meeting Time: During class as needed. Other: Skills USA activities include participation in competition, field trips, and selling Northeast Arkansas Career and Technical Center discount cards (fundraiser). Culinary Arts/Food Production may choose to participate in both FCCLA and Skills USA.

CODERS CLUB

Mobile Applications Development/ UAS Drones Instructor Mr. David Holbrook meets with students interested in coding via the NEACTC Coder's Club. Club members set times to meet during the school day or after school in order to discuss trends and share ideas while collaborating about one of the hottest topics in education today--coding and programming. Students may elect to take field trips, develop games, participate in or develop local and regional competitions, or other activities designed to facilitate learning and interest in coding. Contact Mr. Holbrook at david.holbrook@jonesboroschools.net.

VEX ROBOTICS

The Vex Robotics Club at NEACTC is a competition-based club consisting of science-minded individuals who utilize real world problem solving skills to solve and complete task via hands-on learning experiences. Record keeping, engineering, planning, programming and many other skills are used daily to sharpen the mind and skill levels of these members in order to prepare them for real life industry positions. Students have the opportunity to compete against other Vex Robotics teams across the state and nation in sanctioned Vex Robotics competitions. Club meets at NEACTC or other approved sites both during and after the school day.

SOCIETY OF MANUFACTURING ENGINEERS (SME)

The SME Club is organized at NEACTC by the Advanced Manufacturing/Computer Integrated Manufacturing Instructor Mr. Ricky Barker. Times and dates to meet will be determined to meet the schedules of students participating in the club. Members are students interested in the challenging field of manufacturing, including students with exceptional skills in math and an interest in science as well. Many lucrative careers are available for students interested in manufacturing and engineering. For additional information contact Mr. Barker at ricky.barker@jonesboroschools.net.

Other options:

https://docs.google.com/presentation/d/1oXp19-IllgZ3yb63VW8GpGTg9UcKLeGXXsVvuE0M_sE/edit?slide=id.g3c4530c6412_0_0#slide=id.g3c4530c6412_0_0