



eStem High School
2020-2021
Course Catalog

Course Catalog Key

Course Number

Number codes that are entered on student and master course schedules are in accordance with the Arkansas Department of Education. Course numbers are used to determine that students have received graduation credits in compliance of Arkansas state law.

Rigor Level

High	These courses provide the highest level of content for that particular discipline. Students are required to use critical thinking and high level communication skills to be successful. Requirements for these courses might require major projects/labs and up to one hour of homework per night.
Normal	These courses provide the level of content needed to be ready for entry level college and career tasks. Students are required to use critical thinking skills and communication skills to be successful. Requirements for these courses average about 30 minutes of homework per night.

Credit

This refers to the amount of time a student spends in a course. Courses where students receive 1 credit are taken for an entire school year. Courses where students receive .5 credits are taken for a semester.

Prerequisite

This refers to a course taken prior to and in preparation for another more difficult course

College Credit Eligible

Courses where students who meet college admissions qualifications may earn both college and high school credit at the same time. Students may also potentially earn college credit for their AP test scores. Students interested in this option should review the AP score requirements of their chosen college.

ENGLISH

ENGLISH 10

Course Number: 411000

Grade: 10

Prerequisite: ENG 9

Rigor Level: Normal

Credit: 1.0

College Credit Eligible: N

This course is a multi-cultural language arts class where students will analyze literature, conduct research, and synthesize meaning from historical, cultural, and intellectual contexts with varying themes. Analytical reading instruction will extend understanding of literary elements, knowledge of language, and rhetorical skills. Course content includes nonfiction, short story, poetry, and drama. Writing instruction will extend development in three modes as outlined by the College and Career Readiness Standards: narrative, expository, and argumentative writings. Students will develop skills in critical thinking, effective discourse, collaboration, reflection, and Common Core State Standards (CCSS) in Language and Reading.

ADVANCED ENGLISH 10

Course Number: 411001

Grade: 10

Prerequisite: None

Rigor Level: High

Credit: 1.0

College Credit Eligible: N

This sophomore English class does everything the English 10 class does except at an accelerated pace and in more depth. Students are required to do outside reading as well as the in-class reading, and complete projects more independently. An advanced placement student should be dedicated to completing his/her work on time, participate enthusiastically, completely engage in the learning process for its own sake, and demonstrate self-direction. Students who plan to take AP English classes are strongly recommended to take this level.

ENGLISH 11

Course Number: 412000

Grade: 11

Prerequisite: ENG 10

Rigor Level: Normal

Credit: 1.0

College Credit Eligible: N

This course focuses on reading and analyzing literature and literary nonfiction, studying the English language, and writing about related topics. Students will be exposed to American culture, heritage, and history through a study of our literature and literary nonfiction. Students will read and analyze works of American literature from Colonial to modern times, including poetry, short stories, novels, drama, and non-fiction texts. Students will also refresh their knowledge of grammar and work to develop a mature, sophisticated writing style.

AP/CONCURRENT CREDIT ENGLISH 11- LANGUAGE AND COMPOSITION

Course Number: 517030

Grade: 11

Prerequisite: ADV ENG 10

Rigor Level: High

Credit: 1.0 (Weighted GPA)

College Credit Eligible: Y

This course is aligned to college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course,

students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. Students must earn a qualifying score on the Literature and Composition AP Exam to be eligible to receive college credit and/or placement into advanced courses in college.

ENGLISH 12

Course Number: 413000

Grade: 12

Prerequisite: ENG 11

Rigor Level: Normal

Credit: 1.0

College Credit Eligible: N

This course focuses on reading and analyzing literature and literary nonfiction, studying the English language, and writing about related topics. This course will engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts as well as writing a variety of essays, students will consider key points of analysis such as work's structure, style, and themes as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. Additionally, on a weekly basis, students will study short, non-fiction texts along with weekly grammar exercises. In order to excel in the course, students will need to keep up with all reading and assignments. The goal for students in English 12 is to expand students' knowledge and understanding both of the English language and literature.

AP/CONCURRENT CREDIT ENGLISH 12- LITERATURE AND COMPOSITION

Course Number: 517040

Grade: 12

Prerequisite: ENG 11 or AP LANGUAGE

Rigor Level: High

Credit: 1.0 (Weighted GPA)

College Credit Eligible: Y

This course aligns to a college-level literary analysis curriculum. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. .

PERSONAL COMMUNICATION

Course Number: 414200

Grade: 10-12

Prerequisite: None

Rigor Level: Normal

Credit: 0.5

College Credit Eligible: N

Personal Communication (0.5 Credit) will provide students with an understanding of the dynamics of effective communication while speaking, listening, and responding in the situations they encounter in day-to-day life. Students will practice communication competencies in both intrapersonal and interpersonal environments, prepare for both informal and formal communication, and participate in a variety of formal and informal personal communication experiences. This course will include but is not limited to responsible social media usage, communication barriers, mass media, conflict resolution, and research and organization skills. Students will participate in collaborative discussions and deliver informal and formal addresses. Personal Communication (0.5) fulfills the 0.5 unit of Oral Communication required for graduation.

PROFESSIONAL COMMUNICATION

Course Number: 414210

Grade: 10-12

Prerequisite: None

Rigor Level: Normal

Credit: 0.5

College Credit Eligible: N

Professional Communication (0.5 Credit) will provide students with an understanding of the dynamics of effective communication while speaking, listening, and responding in the situations they will encounter in career settings. Students will practice the principles of communication competencies in professional settings, demonstrate the effect of intrapersonal and interpersonal communication of professional relationships, participate in collaborative communication activities that mirror the contemporary workplace, and deliver a variety of informal talks and addresses relevant to the business world. 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 job interviews. Professional Communication (0.5) fulfills the 0.5 unit of Oral Communication required for graduation.

SOCIAL STUDIES

CIVICS

Course Number: 472000

Grade: 10

Prerequisite: None

Rigor Level: Normal

Credit: 0.5

College Credit Eligible: N

The focus of Civics is the application of civic virtues and democratic principles and investigation of problem solving in society. This course provides a study of the structure and functions of federal, state, and local government. Civics also examines constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in the democratic process.

ECONOMICS WITH PERSONAL FINANCE

Course Number: 474300

Grade: 10

Prerequisite: None

Rigor Level: Normal

Credit: 0.5

College Credit Eligible: N

This course emphasizes economic and personal finance knowledge and skills to manage financial resources. Students will explore the interrelationships among consumers, producers, and resources as well as the interrelationships between national and global economies. Students will examine the relationship between individual choices and the direct influence of these choices on career and future earning potential. They will additionally, focus 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).

WORLD HISTORY SINCE 1450

Course Number: 471000

Grade: 10

Prerequisite: None

Rigor Level: Normal

Credit: 1.0

College Credit Eligible: N

World History Since 1450 provides an in-depth study of the history of human society from Era 6: Emergence of First Global Age 1450-1770 to Era 9: Contemporary World since 1945. World History is designed to assist students in understanding the human condition, how people and countries of the world have become increasingly interconnected across time and space, and the ways different people view the same event or issue from a variety of perspectives. This course develops an understanding of the historical roots of current world issues, especially as they pertain to international/global relations. It requires an understanding of world cultures and civilizations, including an analysis of important ideas, social and cultural values, beliefs, and traditions. Knowledge of past achievements and failures of different peoples and nations provides citizens of the 21st century with a broader context within which to address the many issues facing our nation and the world.

AP/CONCURRENT CREDIT WORLD HISTORY SINCE 1450

Course Number: 571020

Grade: 10

Prerequisite: None

Rigor Level: High

Credit: 1.0 (Weighted GPA)

College Credit Eligible: Y

The AP World History course focuses on developing students' understanding of world history from approximately 8000 BCE to the present. The course has students investigate the content of world history for significant events, individuals, developments, and processes in six historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. The course also provides five themes that students explore throughout the course in order to make connections between historical developments in different times and places encompassing the five major geographical regions of the globe: Africa, the Americas, Asia, Europe, and Oceania.

U.S. HISTORY SINCE 1890

Course Number: 470000

Grade: 11

Prerequisite: WORLD HISTORY

Rigor Level: Normal

Credit: 1.0

College Credit Eligible: N

This course will review Pre-Columbian American Culture through the Civil War and Reconstruction within the first quarter. The rest of the year will cover 1890 – Current Day. Student knowledge of U.S. History will grow as they analyze and interpret primary and secondary historical documents and interpret maps and graphs related to important historical events and people. Students use debate and discussion to synthesize major historical questions and learn to defend their positions in writing and speech while acknowledging and respecting the existence of other points of view.

AP/CONCURRENT CREDIT U.S. HISTORY SINCE 1890

Course Number: 570020

Grade: 11

Prerequisite: WORLD HISTORY or AP WORLD HISTORY

Rigor Level: High

Credit: 1.0 (Weighted GPA)

College Credit Eligible: Y

AP U.S. History covers the spectrum of American history from Pre-Columbian societies to the present. Using chronological and thematic approaches to the material, the course exposes students to extensive primary and secondary sources and to the interpretations of various historians. Class participation through seminar reports, discussions, debates, and role-playing activities is required; special emphasis is placed on critical reading and essay writing to help students prepare for the AP examination. Students can

expect to read 6-8 pages a night preparing for chapter quizzes as well as periodic take home readings from books, documents, and online sources.

AP GOVERNMENT & POLITICS

Course Number: 572010

Grade: 11-12

Prerequisite: COMPLETION OF HISTORY CREDITS

Rigor Level: High

Credit: 1.0 (Weighted GPA)

College Credit Eligible: AP Score

AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behavior. They also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they complete a political science research or applied civics project.

AP EUROPEAN HISTORY

Course Number: 579170

Grade: 11-12

Prerequisite: COMPLETION OF HISTORY CREDITS

Rigor Level: High

Credit: 1.0 (Weighted GPA)

College Credit Eligible: AP Score

This course focuses on the cultural, economic, political, and social developments that have shaped Europe from c. 1450 to the present. Students will analyze texts, visual sources, and other historical evidence and write essays expressing historical arguments. Students will learn:

- Evaluating primary and secondary sources
- Analyzing the claims, evidence, and reasoning you find in sources
- Putting historical developments in context and making connections between them
- Coming up with a claim or thesis and explaining and supporting it in writing

MATH

GEOMETRY

Course Number: 431000

Grade: 10-12

Prerequisite: ALGEBRA I

Rigor Level: Normal

Credit: 1.0

College Credit Eligible: N

This course follows Algebra I and focuses on three major areas: Algebra, Geometry, and Statistics. In preparation for Aspire & ACT, there is emphasis placed on quadratic functions and equations. Geometrically, the course focuses on the manipulation of figures, their congruent and similar relationships, and circles. Finally, the Statistics portion of the course focuses on calculating probability for situations with the assistance of diagrams and tables.

ADVANCED GEOMETRY

Course Number: 431001

Rigor Level: High

Grade: 10-12
Prerequisite: ALGEBRA I

Credit: 1.0
College Credit Eligible: N

This course follows Algebra I and focuses on three major areas: Algebra, Geometry, and Statistics. In preparation for Aspire & ACT, there is emphasis placed on quadratic, absolute value, & inverse functions and equations. Geometrically, the course focuses on the manipulation of figures, their congruent and similar relationships, trigonometric ratios, circles, and proofs. Finally, the Statistics portion of the course focuses on calculating probability for situations with the assistance of diagrams and tables as well as data collection and prediction modeling. This course helps prepare students for Advanced Algebra II.

ALGEBRA II

Course Number: 432000
Grade: 10-12
Prerequisite: GEOMETRY

Rigor Level: Normal
Credit: 1.0
College Credit Eligible: N

Algebra II is a two-semester course designed to build on algebraic and geometric concepts. It develops advanced algebra skills such as systems of equations, advanced polynomials, imaginary and complex numbers, quadratics and the study of trigonometric functions. The content of this course is important for students' success on the ACT Aspire, ACT and college mathematics entrance exams.

ADVANCED ALGEBRA II

Course Number: 432001
Grade: 10-12
Prerequisite: ADV GEOMETRY

Rigor Level: High
Credit 1.0
College Credit Eligible: N

Course will cover materials at an accelerated pace. More in-depth thought and knowledge will be expected from the students. The overriding themes of the course are algebraic manipulation, problem-solving, equation solving, modeling, graphing, and probability/statistics. Course Outcomes: The essential skills and concepts that will be covered in this course are factoring, investigation, functions (Part 1), sequences, application of sequences, variable exponents, parent graphs, parabolas, systems of equations, inequalities, functions (Part 2), fractions and variables, logarithms, polynomials, complex numbers, conics, probability, counting principles, unit circle/trigonometry

ALGEBRA III

Course Number: 439070
Grade: 10-12
Prerequisite: Algebra II

Rigor Level: Normal
Credit 1.0
College Credit Eligible: N

Algebra is a branch of mathematics in which arithmetical operations and formal manipulations are applied to abstract symbols rather than specific numbers. We use letters as variables to represent these numbers. Algebra 3 is designed to help students to be prepared for college courses that they will need to take in the future, by bridging the gap between Algebra 2 and graduation. Course Outcomes: The essential skills and concepts that will be covered in this course are Integers, Decimals, Exponents, Square Roots, Scientific Notation, Fractions, Percentages, Ratios & Proportions, Central Tendencies, Substituting Values, Setting Up Equations, Factoring Polynomials, Exponents & Radicals, Basic Operations/Polynomials, Linear Equations/One Variable, Linear Equations/Two Variables, Rational Expressions, Functions, Exponents,

Complex Numbers, Arithmetic & Geometric Sequences & Series, Matrices Triangles, Circles, Angles, Rectangles, Three-Dimensional Concepts Right-Triangle, Special Angles.

TRANSITIONAL MATH

Course Number: 439110

Grade: 10-12

Prerequisite: ALGEBRA II

Rigor Level: Normal

Credit: 1.0

College Credit Eligible: N

This course emphasizes understanding of mathematical concepts rather than just memorizing procedures. Math Ready students learn the context behind procedures and understand why to use a certain formula or method to solve a problem. By engaging students in real-world applications, Math Ready develops critical thinking skills that students will use in college and their careers. Areas of focus include algebraic expressions and equations, measurement/proportional reasoning, functions (linear, quadratic, and exponential), statistics.

AP STATISTICS

Course Number: 539030

Grade: 10-12

Prerequisite: ALGEBRA II

Rigor Level: High

Credit: 1.0 (Weighted GPA)

College Credit Eligible: AP Score

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 are exposed to four broad conceptual themes: exploring data by describing patterns and departures from patterns, sampling and experimentation by planning and conducting a study, anticipating patterns through exploring random phenomena using probability as well as simulation, and statistical inference by estimating population parameters and testing hypotheses. This course requires analytical skills that go beyond just mathematics but require a high level of detail in assimilating and processing all of the information to completely describe and solve situations.

CONCURRENT CREDIT PRE-CALCULUS

Course Number: 433000

Grade: 10-12

Prerequisite: ALGEBRA II

Rigor Level: High

Credit: 1.0

College Credit Eligible: Y

This course is designed to cover topics in absolute value inequalities and polynomial equations; relations and functions; polynomials and rational functions and their graphs; logarithmic and exponential functions; determinants and matrices. Trigonometry concepts such as Law of Sines and Cosines will be introduced. Students will then begin analytic geometry and calculus concepts. A graphing calculator may be required. This class is designed for students who plan to take AP Calculus AB.

AP/CONCURRENT CREDIT CALCULUS AB

Course Number: 534040

Grade: 11-12

Prerequisite: PRE-CALCULUS

Rigor Level: High

Credit: 1.0 (Weighted GPA)

College Credit Eligible: Y

This course is open to students who have completed pre-calculus and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials, trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus

to real-world problem areas, basic techniques for integration, a variety of applications of Integration, and an introduction to differential equations. A graphing calculator may be required. There are several things that contribute to your success in this class: working hard in and out of the classroom; spending at least 45 minutes at day, seven days a week on math; engaging your brain during lectures, group work, homework, and projects to understand the concepts. And summer packet is required for this class.

AP/CONCURRENT CREDIT CALCULUS BC

Course Number: 534050

Grade: 12

Prerequisite: CALCULUS AB

Rigor Level: High

Credit: 1.0 (Weighted GPA)

College Credit Eligible: Y

This course is open to students who have completed AP Calculus AB and desire a more rigorous mathematics course at the core level. It extends the content learned in AB to different types of equations (polar, parametric, vector-valued) and new topics (such as Euler's method, integration by parts, partial fraction decomposition, and improper integrals), and introduces the topic of sequences and series. A graphing calculator may be required. There are several things that contribute to your success in this class: working hard in and out of the classroom; spending at least 45 minutes at day, seven days a week on math; engaging your brain during lectures, group work, homework, and projects to understand the concepts. And summer packet is required for this class.

SCIENCE

BIOLOGY

Course Number: 420000

Grade: 10-12

Prerequisite: PHYSICAL SCIENCE

Rigor Level: Normal

Credit: 1.0

College Credit Eligible: N

The major purpose of this course is to provide understanding of the basic biological concepts: the diversity of organisms; the cell; heredity; matter, energy, and organization of living systems; evolution of living systems; physiology; the biosphere and interdependence of abiotic and biotic factors. Active student participation in laboratory investigations is expected. Students work on improving their science reasoning skills by developing models, applying mathematical methods, and engaging in argument from evidence. Biology lays the foundation for further studies in the natural sciences. Students are expected to complete an average of one hour of homework a week. Typical homework for the course is reading and studying notes.

AP BIOLOGY

Course Number: 520030

Grade: 10-12

Prerequisite: BIOLOGY or ADV BIOLOGY

Rigor Level: High

Credit: 1.0 (Weighted GPA)

College Credit Eligible: AP Score

This course is an introductory college-level biology course. Students deepen their understanding of biology through inquiry-based investigations as they study the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions. Twenty-five percent of instructional time is devoted to hands-on laboratory work. Investigations require students to ask questions, design experiments, analyze data, and construct arguments in a collaborative setting,

where they direct and monitor their progress. AP Biology differs significantly from the usual first-year high school course by the textbook used, the range and depth of topics covered, the kind of laboratory work done, and the time and effort required of students. Students should have completed both Biology and Chemistry, or be concurrently enrolled in Advanced Chemistry while taking AP Biology. Students are expected to complete 45 minutes of reading or homework each night.

CHEMISTRY

Course Number: 421000

Grade: 10-12

Prerequisite: BIOLOGY

Rigor Level: Normal

Credit: 1.0

College Credit Eligible: N

This integrated course focuses on the physical and chemical processes of the natural world and incorporates complex concepts from chemistry, earth and space science, and physical science. Students will develop a deeper understanding of the properties of matter, chemical and nuclear reactions, waves and forces, and the conservation and flow of energy in various systems. During this course, students are expected to engage with major global issues at the interface of science, technology, society and the environment, and to bring to light the kinds of analytical and strategic thinking made possible by application of scientific concepts covered in this course.

ADVANCED CHEMISTRY

Course Number: 421001

Grade: 10-12

Prerequisite: BIOLOGY

Rigor Level: High

Credit: 1.0

College Credit Eligible: N

Advanced Chemistry introduces students to the scientific study of matter, its properties, and the interactions of matter with other matter and with energy. This course is intended for students who will subsequently take AP Chemistry. The initial weeks of the course are structured so students acquire sufficient chemistry knowledge so they can concurrently take AP Biology. Topics include atomic structure, periodic table/trends, nuclear chemistry, chemical bonds, intermolecular forces, molecular geometry, stoichiometry, gas laws, solution chemistry, equilibrium principles, acids and bases, redox reactions, enthalpy and basic organic chemistry. Students will learn through class discussion, guided inquiries (experiments), reading the text (Zumdahl & Zumdahl 7th Edition) and problem-solving. Students must do 30 minutes of homework each night.

AP CHEMISTRY

Course Number: 521030

Grade: 11-12

Prerequisite: ADV CHEMISTRY

Rigor Level: High

Credit: 1.0 (Weighted GPA)

College Credit Eligible: AP Score

AP Chemistry is the equivalent of a two-semester college general chemistry course. Prerequisites for this course are one year of high school chemistry. This course covers an in-depth study of advanced chemistry concepts such as atomic structure, bonding, thermodynamics, acid-base theory, equilibrium, kinetics, electrochemistry, organic chemistry, nuclear chemistry and descriptive chemistry, all of which are centered on the six big ideas outlined by the AP Curriculum Framework. Students will also build competency in dealing with chemical calculations. Students must do 60 minutes of homework each night.

HUMAN ANATOMY AND PHYSIOLOGY

Course Number: 424030
Grade: 11-12
Prerequisite: BIOLOGY & CHEMISTRY

Rigor Level: Normal
Credit: 1.0
College Credit Eligible: N

This course focuses on the study of the human body and is intended for students who plan to pursue a college degree in a science-related field, especially biology or other health-related majors. Students will gain an understanding of the relationships between the structures and functions of the human body. Topics range from molecules, cells, body systems, and processes. This course will involve projects, textbook reading, video reviews, and essays.

AP PHYSICS

Course Number: 522080
Grade: 11-12
Prerequisite: ADV CHEMISTRY

Rigor Level: High
Credit: 1.0 (Weighted GPA)
College Credit Eligible: AP Score

This course introduces students to the scientific study of matter, energy, and the interaction between them. This course is intended for students who might be interested in majoring in engineering, chemistry, physics or mathematics in college. The year-long curriculum matches the first semester of college-level physics. Topics include Kinematics, Dynamics, Circular Motion & Gravity, Simple Harmonic Motion, Momentum & Impulse, Work, Energy & Power, Rotation and Angular Momentum, Mechanical Waves & Sound, Electrostatics, and Electric Circuits. Students will learn through class discussion, guided inquiries (experiments), reading the text (Giancoli 7th Edition) and problem-solving. Students must do 45 minutes of homework each night.

ENVIRONMENTAL SCIENCE

Course Number: 422000
Grade: 11-12
Prerequisite: BIOLOGY & CHEMISTRY

Rigor Level: Normal
Credit: 1.0
College Credit Eligible: N

Environmental science should examine the physical and biological dynamics of Earth. Students should analyze the impact of human activities on the environment. Field studies, as well as the process of collecting and analyzing data, should be an integral part of the course. Instruction and assessment should include both appropriate technology and the safe use of laboratory equipment.

FOREIGN LANGUAGE

CHINESE I

Course Number: 447000
Grade: 10-11
Prerequisite: None

Rigor Level: Normal
Credit: 1.0
College Credit Eligible: N

Chinese I is a two-semester course. Students in Chinese I will receive basic instruction in pronunciation, aural comprehension, vocabulary, and grammar. Chinese culture, traditions, and current events are introduced at the novice level through selected readings, audio/visual recordings, and other authentic materials. Listening, speaking, writing, role-playing, and group activities are designed to instruct, reinforce, and connect language skills.

CHINESE II

Course Number: 447010

Grade: 10-12

Prerequisite: CHINESE I

Rigor Level: High

Credit: 1.0

College Credit Eligible: TBD

Chinese II expands the fundamental language skills introduced in Chinese I. Students will receive extended instruction in pronunciation, aural comprehension, vocabulary, and grammar, and eventually lead to increased communicative and cultural proficiency in the target language(s). Chinese culture, traditions, and current events are taught at a more advanced level than Chinese I through selected readings, audio/visual recordings, and other authentic materials. Listening, speaking, writing, role-playing, and group activities are designed to instruct, reinforce, and connect language skills. Chinese II will include applications, problem solving, higher-order thinking skills, and performance-based and project-based assessments.

CHINESE III

Course Number: 447030

Grade: 10-12

Prerequisite: CHINESE II

Rigor Level: High

Credit: 1.0

College Credit Eligible: TBD

Chinese III is a continuation course of Chinese I and II or equivalent courses at the intermediate level. Students will receive advanced instruction in all aspects of Chinese language, literature, and culture. By the end of this course, students should be able to demonstrate command of the Chinese language through a variety of assessment tasks which may include role-playing, literary analysis, dictations, and aural comprehension.

CHINESE IV

Course Number: 447040

Grade: 10-12

Prerequisite: CHINESE III

Rigor Level: High

Credit: 1.0

College Credit Eligible: TBD

Chinese IV is the culmination of all previous instruction in Chinese I, II, and III. The course is focused on the application of previously learned skills at an advanced level in a variety of project-based tasks. Students in Chinese IV should be fully fluent in both spoken and written communication and be able to demonstrate mastery in a real-world situations and tasks.

SPANISH II

Course Number: 440020

Grade: 10-12

Prerequisite: SPANISH I

Rigor Level: Normal

Credit: 1.0

College Credit Eligible: TBD

SPANISH II is a rigorous course designed to build upon the listening, speaking, reading and writing communication skills students learned in Spanish 2, and introduce them to further grammatical structures and vocabulary of the Spanish language. This course will broaden the students' knowledge and perspective on the cultures of the Spanish speaking world and its countries. The primary goal is to increase fluency in the language by using authentic texts, conversations/dialogs, movies, articles and literature and to prepare students who wish to take the Spanish IV course the following year.

SPANISH III

Course Number: 440030

Grade: 10-12

Prerequisite: SPANISH II

Rigor Level: Normal

Credit: 1.0

College Credit Eligible:TBD

SPANISH III is a rigorous course designed to build upon the listening, speaking, reading and writing communication skills students learned in Spanish 2, and introduce them to further grammatical structures and vocabulary of the Spanish language. This course will broaden the students' knowledge and perspective on the cultures of the Spanish speaking world and its countries. The primary goal is to increase fluency in the language by using authentic texts, conversations/dialogs, movies, articles and literature and to prepare students who wish to take the Spanish IV course the following year.

SPANISH IV

Course Number: 440040

Grade: 10-12

Prerequisite: SPANISH III

Rigor Level: High

Credit: 1.0

College Credit Eligible: TBD

SPANISH IV is a rigorous course designed to build the listening, speaking, reading and writing skills learned in Spanish III and introduce them to key grammar structures and vocabulary of the Spanish language. In addition, the primary goal is to increase fluency in the language by using authentic texts, music, conversation/dialogs, movies, articles and poems, and to prepare students who wish to take the AP Spanish Language course the following year. The course will also continue to broaden the students' knowledge of the products, practices and perspectives of Spanish and Latin American cultures.

HEALTH & P.E.**HEALTH AND WELLNESS**

Course Number: 480000

Grade: 10-12

Prerequisite: NONE

Rigor Level: Normal

Credit: 0.5

College Credit Eligible: N

Health and Wellness is a one-semester course that should provide content and learning experiences in nutrition, disease prevention, human growth and development, healthy life skills, personal health and safety, community health and promotion, decision-making skills, interpersonal communication skills, and information regarding the use and abuse of medications, alcohol, tobacco, and other drugs. The course content should focus on personal health and wellness and the practice of health-enhancing behaviors to avoid or reduce health risks. This course encompasses the Health and Wellness Content Standards defined by the Arkansas Physical Education and Health Curriculum Framework.

PERSONAL FITNESS FOR LIFE

Course Number: 485010

Grade: 10-12

Prerequisite: NONE

Rigor Level: Normal

Credit: 0.5

College Credit Eligible: N

Physical Education and Leisure is a two-semester course that includes a planned curriculum which provides content and learning experiences in basic motor skills, movement patterns, and movement

concepts as they apply to physical activity and health-related physical fitness, as well as lifetime sports and recreation. This course encompasses the Physical Education and Leisure Content Standards defined by the Arkansas Physical Education and Health Curriculum Framework.

WEIGHTLIFTING

Course Number: 485000

Grade: 10-12

Prerequisite: None

Rigor Level: Normal

Credit: 1.0

College Credit Eligible: N

The emphasis in this course is on muscular strength, endurance, flexibility, and safety. The core lifts in this course include parallel squats, cleans, and bench press. Weight room safety, warm-up/cool-down procedures, lifting technique and safety for all lifts, major muscle identification, and individual goal setting are all important components in this course. In addition, students will monitor and improve their fitness levels by participating in the Fitness assessments throughout the semester.

FINE ARTS

ART I

Course Number: 450000

Grade: 10-12

Prerequisite: NONE

Rigor Level: Normal

Credit: 1.0

College Credit Eligible: N

Art I is a two-semester course designed to teach students how to create art using the elements of art and principles of design. Students will be expected to use a variety of media, techniques, processes, and tools to create original works of art that demonstrate the understanding of the elements of art and principles of design. Purchase of supplies is expected.

ART II

Course Number: 450030

Grade: 10-12

Prerequisite: ART I

Rigor Level: Normal

Credit: 1.0

College Credit Eligible: N

Art II is a two-semester course for students who have successfully completed Art 1. Students will be expected to further expand their knowledge of the elements of art and principles of design through the research, production, and criticism of visual art. Students will be expected to use a broad variety of media, techniques, processes, and tools to create original, complex compositions that reflect personal growth, solve visual art problems, and communicate ideas. Purchase of supplies is expected.

ART III

Course Number: 450040

Grade: 10-12

Prerequisite: ART II

Rigor Level: Normal

Credit: 1.0

College Credit Eligible: N

Art III is a two-semester course designed for students who have successfully completed Art 2 and want to build a competitive portfolio for college. Students will create artwork that demonstrates their ability to apply knowledge of the elements of art and the principles of design in the research, production, and

criticism of visual art. Students will critique artwork to gain a deeper understanding of the impact of art upon society as well as societal influences on art.

AP STUDIO ART PORTFOLIO

Course Number: 559040

Grade: 11-12

Prerequisite: ART III

Rigor Level: High

Credit: 1.0 (Weighted GPA)

College Credit Eligible: Y

The AP Studio Art course is for students interested in a rigorous and focused independent study in art. Students will develop a quality portfolio that demonstrates a mastery of concept, composition and execution in their choice of 3 different courses: Drawing, 2D, or 3D design. These courses are based on a student creating an independent body of work that demonstrates quality (selected works), concentration (a sustained investigation) and breadth (using a variety of approaches to create artwork). The portfolio will be submitted to the College Board for college credit. As in any college level course students will be expected to spend a considerable amount of time outside of class in order to complete assignments. On average students will need to create one piece of art every week to week and a half to have a strong and complete AP Studio Art Portfolio.

AP STUDIO ART 2-D DESIGN PORTFOLIO

Course Number: 559050

Grade: 11-12

Prerequisite: ART III

Rigor Level: High

Credit: 1.0 (Weighted GPA)

College Credit Eligible: Y

In this class, drawing is focused on "mark making," meaning that students cannot digitally alter images. AP Studio Art 2D is focused on design and this can include photography, digital artwork, and graphic design.

AP STUDIO ART 3-D DESIGN PORTFOLIO

Course Number: 559060

Grade: 11-12

Prerequisite: ART III

Rigor Level: High

Credit: 1.0 (Weighted GPA)

College Credit Eligible: Y

In this class, drawing is focused on "mark making," meaning that students cannot digitally alter images. AP Studio Art 3D is focused on space and how the artwork interacts with the space around it.

VOCAL MUSIC I-IV

Course Number: Varies

Grade: 10-12

Prerequisite: PROGRESSIVE

Rigor Level: Normal

Credit: 1.0

College Credit Eligible: N

Vocal Music I-IV are two-semester courses designed for traditional and emerging ensembles. Vocal music students will demonstrate an ability to apply music fundamentals and vocal techniques in the production, performance, analysis, and critique of vocal music performance. Students are expected to apply sight-reading skills, improvisational skills, and performance techniques in solo, small group, and large group settings. Vocal music students will critique vocal music performances and deeply reflect upon the impact of vocal music on society as well as societal influences on vocal music. Students will regularly perform vocally in a variety of settings and will demonstrate successful completion of vocal music student learning expectations. Auditions for Vocal Music II-IV may be required.

INSTRUMENTAL MUSIC I-IV

Course Number: Varies

Grade: 10-12

Prerequisite: PROGRESSIVE

Rigor Level: Normal

Credit: 1.0

College Credit Eligible: N

Students will learn basic techniques to improve musical abilities; reading music; play a variety of genres, styles and traditional pieces. Curriculum will include three public performances as well as after school rehearsals.

MUSIC TECHNOLOGY

Course Number: 459020

Grade: 10-12

Prerequisite: NONE

Rigor Level: Normal

Credit: 1.0

College Credit Eligible: N

This course provides a basic overview of digital audio, computer-generated notation, and MIDI. This course is designed for students with some musical background and knowledge of music theory who wish to enhance their music making through the use of music technology. While this is not a course in composition or performance, students will create some of their own compositions and use their performance skills to gain an understanding of music technology.

CAREER FOCUS**ROBOTICS- LEVEL I & II**

Course Number: 465510/465520

Grade: 11-12

Prerequisite: NONE

Rigor Level: Normal

Credit: 1.0

College Credit Eligible: N

Robotics introduces students to the principles of robot design and construction. This course is primarily intended for students who might be interested in majoring in engineering or physics in college, but is also appropriate for students who simply want to learn how to create things. During first semester students learn the fundamentals of robotics, assemble and program MakeBlock mBot robots and as a team design and construct a competitive robot (part of the fall BEST Robotics competition). During second semester students will learn the foundational principles of electrical engineering, then will design and build a scratch-built robot using electrical and electronic components. This is a hands-on course where students will learn through class discussion, practical learning projects, and design/construction projects. Students must complete about 30 minutes of homework per week.

COMPUTER SCIENCE- PROGRAMMING/LEVEL I & II

Course Number: 454010/465020

Grade: 10-12

Prerequisite: NONE

Rigor Level: Normal

Credit: 0.5

College Credit Eligible: N

This entry level course teaches fundamental concepts and terminology of computer programming. Students will develop skills in designing and writing simple computer programs in Scratch, JavaScript, and

Java. The course requires no programming background. Emphasis will be placed on conceptual understanding of programming logic

AP COMPUTER SCIENCE A LEVEL 1 & 2

Course Number: 565110/565120

Grade: 11-12

Prerequisite: INSTRUCTOR APPROVAL

Rigor Level: High

Credit: 1.0

College Credit Eligible: AP Score

A full-year, rigorous, entry-level course that introduces high school students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing. The course is designed for typical school settings with teachers in classrooms

COLLEGE READINESS

Course Number: 493880

Grade: 10

Prerequisite: NONE

Rigor Level: Normal

Credit: 0.5

College Credit Eligible: N

College and Career Readiness is a one-semester (.5 credit) course that can count toward completer status for any Career and Technical Education Program of Study. It 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 and master the skills most needed by 21st century employers. This course is recommended for the first semester of the senior year to assess labor market information, personal academic and career ready potential, and make application to postsecondary institutions.

CAREER READINESS

Course Number: 493900

Grade: 10

Prerequisite: NONE

Rigor Level: Normal

Credit: 0.5

College Credit Eligible: N

This course is designed to provide the student with the necessary skills to evaluate foundational skills needed in a chosen career based upon job profiles. The major goal of this course is to engage students to develop characteristics and skills employers most desire. Students will evaluate and master basic career readiness transferable skills in preparation for employment including financial literacy, career exploration, resume writing, interviewing and soft skills.

PSYCHOLOGY

Course Number: 474400

Grade: 10-12

Prerequisite: NONE

Rigor Level: Normal

Credit: 0.5

College Credit Eligible: N

Psychology is a one-semester social studies elective course that introduces students to the science of behavior and mental processes. It includes an overview of the history of psychology as well as an opportunity to study individual and social psychology and how the knowledge and methods of psychologists are applied to the solution of human problems. The content of this course includes human development; biological bases of behavior; sensation and perception; learning, memory, and cognition; behavior patterns and psychological disorders and treatments.

SOCIOLOGY

Course Number: 474500

Grade: 10-12

Prerequisite: NONE

Rigor Level: Normal

Credit: 0.5

College Credit Eligible: N

Sociology is a one-semester social studies elective course, which introduces students to the social systems that are the foundation of society. An emphasis is placed on culture, social status, social institutions, and social problems, as well as resulting behaviors. Using tools and techniques of sociologists, students will examine the causes, consequences, and possible solutions for various social issues. Students will read major sociological theorists as well as consider how sociologists approach issues.

ABNORMAL PSYCHOLOGY

Course Number: 495370

Grade: 10-12

Prerequisite: NONE

Rigor Level: Normal

Credit: 0.5

College Credit Eligible: N

This course provides a basic survey of maladaptive human behavior. Major psychological disorders, their causes, symptom behaviors, cultural influences, and relevant treatment approaches are discussed. Included topics are historical medical background, perspectives of treatment of the mentally ill, fundamental definitions, causes of anxiety disorders, disorders of mood, personality disorders, disorders of thought, including schizophrenia, substance-related disorders, and domestic violence. Legal, ethical, and social issues relating to the medical professional's role in treating psychological disorders are explored.

HUMAN BEHAVIOR & DISORDERS

Course Number: 495320

Grade: 10-12

Prerequisite: ABNORMAL PSYCH

Rigor Level: Normal

Credit: 0.5

College Credit Eligible: N

This course focuses on behavior and personality, abnormal behavior and personality, and behavior disorders and the therapies used to treat those disorders and abnormalities. Topics in this course are an introduction to psychology and methods of research; biological foundations of behavior; differentiation between consciousness and awareness; psychological disorders; different therapeutic methods, and psychological concepts behind learning, memory, thinking, motivation and emotion.

AP PSYCHOLOGY

Course Number: 579120

Grade: 10-12

Prerequisite: INSTRUCTOR APPROVAL

Rigor Level: High

Credit: 1.0 (Weighted GPA)

College Credit Eligible: AP Score

AP Psychology is an elective course governed by Advanced Placement and College Board. Students are introduced to the systemic and scientific study of the behavior and mental processes of human beings and other animals. In this course, 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 that psychologists use in their science and practice. Students should expect to spend 30-45 per night completing assignments and reviewing notes with 4-5 hours per quarter spent on four major projects. This course contains extensive vocabulary that is required for course understanding and

the completion of 573 note cards is required over the year of the course. Note cards are considered an additional time constraint.

AP SEMINAR

Course Number: 517060

Grade: 11

Prerequisite: INSTRUCTOR APPROVAL

Rigor Level: High

Credit: 1.0 (Weighted GPA)

College Credit Eligible: AP Score

AP Seminar is an Advanced Placement/College Board course on argumentation, and Part I of a two course AP Capstone Program. Students practice argumentation and debate preparation in four units followed by two performance tasks. In Performance Task I, students write an individual research paper (1200 words maximum) that is then synthesized into a group argumentation presentation. In Performance Task II, students write an individual research paper (2000 words maximum) based on stimuli provided by College Board, and then write an individual presentation showing the breadth of his/her research with a thematic topic synthesized from the provided stimuli/additional student research. At the end of the course, students also take an Advanced Placement Exam. Students should allow for 1 hour per night for work in this course. During the building of presentations, students should allow for up to two hours per night in this course.

AP RESEARCH

Course Number: 517070

Grade: 12

Prerequisite: AP SEMINAR

Rigor Level: High

Credit: 1.0 (Weighted GPA)

College Credit Eligible: AP Score

AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of 4000–5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense.

EAST INITIATIVE I-IV

Course Number: Varies

Grade: 10-12

Prerequisite: PROGRESSIVE

Rigor Level: Normal

Credit: 1.0

College Credit Eligible: N

The EAST Initiative provides opportunities to engage students through project-based learning, collaboration, technology and civic engagement. EAST connects the dots between communities, 21st century skills and innovative thinking. EAST schools are equipped with classrooms containing state-of-the-art workstations, servers, software and accessories, including GPS/GIS mapping tools, architectural and CAD design software, 3D animation suites, virtual reality development and more. Students identify problems in their local communities and develop ways to use these tools to develop solutions.

AFRICAN AMERICAN HISTORY

Course Number: 474700

Rigor Level: Normal

Grade: 10-12
Prerequisite: NONE

Credit: 0.5
College Credit Eligible: N

African American History examines the contributions African Americans have made to the history of the United States. This course is designed to assist students in understanding issues and events from multiple perspectives. This course develops an understanding of the historical roots of African American culture, especially as it pertains to social, economic, and political interactions within the broader context of United States history. It requires an analysis of important ideas, social and cultural values, beliefs, and traditions. Knowledge of past achievements provides citizens of the 21st century with a broader context within which to address the many issues facing the United States.

MARKETING MANAGEMENT

Course Number: 492350
Grade: 10-12
Prerequisite: NONE

Rigor Level: Normal
Credit: 1.0
College Credit Eligible: N

Marketing Management is a two-semester course designed to develop decision-making skills through the application of marketing and management principles. Competencies will be accomplished by utilizing various instructional methods, resources, and direct involvement with marketing businesses. The course will focus on organization, finance, risks, credit, technology, and social aspects.

GRADUATION REQUIREMENTS

A minimum of 26 units is required for graduation based on the eStem curriculum. In addition to the Smart Core requirements listed below, students must earn the following credits in order to be awarded the full eStem diploma:

eStem focus – 2 units beyond Smart Core requirements selected from the courses offered in any of the fields of economics, science, technology, engineering or mathematics.

Foreign language – 2 units in consecutive years of the same language; Foreign language is required for all ninth grade students.

****English and math must be taken every school year, and the eStem science progression must include Physical Science (or Physics), Biology and Chemistry. Beginning in the 2018-2019 school year, seniors are not required to take a science course, provided they have already met the eStem diploma requirements. However, it is recommended that seniors take a science course, especially if they are pursuing a career in STEM.**

SMART CORE CURRICULUM

English – 4 units

- English 9th grade
- English 10th grade

- English 11th grade
- English 12th grade

Mathematics – 4 units (or 3 units of math and 1 unit of Computer Science*) At least one MATH unit must be taken in Grade 11 or Grade 12.**

- Algebra I (or Algebra A & Algebra B - Grades 7-8 or 8-9)
- Geometry (or Geometry A & Geometry B - Grades 8-9 or 9-10)
- Algebra II
- Fourth math - Advanced Topics and Modeling in Mathematics, Algebra III, Calculus, Computer Science and Mathematics, Linear Systems and Statistics, Transitional Math Ready, Mathematical Applications and Algorithms, Pre-Calculus, or an Advanced Placement mathematics - Comparable concurrent credit college courses may be substituted where applicable.

Science – 3 units with lab experience (or 2 units with lab experience and 1 unit of Computer Science*)

- Biology – 1 unit (All students must have 1 unit in Biology, IB Biology, ADE Biology, ADE Approved Biology Honors, or Concurrent Credit Biology.)
- Physical Science, Chemistry, or Physics – 2 units

Social Studies – 3 units

- Civics - ½ unit
- World History - 1 unit
- U.S. History - 1 unit
- other social studies - ½ unit

Oral Communications – ½ unit

Physical Education – ½ unit

Health and Safety – ½ unit

Economics – ½ unit (may be counted toward Social Studies or Career Focus)

Fine Arts – ½ unit

Career Focus – 6 units

***Computer Science – (optional)** A flex unit of Computer Science and Mathematics, Essentials of Computer Programming, AP Computer Science, or IB Computer Science may replace the 4th math requirement or the 3rd science requirement. Two distinct units of the computer science courses listed above may replace the 4th math requirement and the 3rd science requirement. If the 4th math requirement and the 3rd science requirement have been met through other coursework, any of the computer science courses listed above may be used for career focus credit.

Beginning with the 2014-2015 school year, students in grades 9-12 shall be trained in CPR before graduation. (A.C.A. § 6-16-143)

Beginning with the entering 9th grade class of 2014-2015, each high school student shall be required to take at least one digital learning course for credit to graduate. (Act 1280 of 2013)

Beginning with the entering 9th grade class of 2017-2018, each high school student shall be required to take a course that includes specific personal finance standards in either grades 10,11, or 12. (Act 480 of 2017)

Beginning with the entering 12th grade class of 2018-2019, each high school student must pass the Arkansas Civics Exam with a score of 60% or higher to earn a diploma. (Act 478 of 2017)

Students will meet the digital learning requirement through an eStem blended learning class, a Virtual Arkansas class, or by taking an online class offered through an ADE approved vendor.

Beginning with students enrolling on or after 7/19/2016, a student may not receive graduation credit for a course taken through an online vendor if that course is taught in-house at eStem. Exceptions may be approved if a student: 1) needs to take a course for credit recovery, 2) is a senior and a graduation requirement will not otherwise fit into the student's schedule, or 3) has administrative approval.

HONOR GRADUATE REQUIREMENTS

Summa Cum Laude- (4.25 or higher GPA) These students must also have completed a minimum of 8 A.P. courses. Students with this distinction will wear a Summa Cum Laude gold medal with a gold ribbon, gold honors cord, gold honors sash, and any academic club sashes, cords, or pins.

Magna Cum Laude- (4.0 – 4.24 GPA) These students must have completed a minimum of 4 A.P. courses. Students with this distinction will wear the Magna Cum Laude gold medal with a blue ribbon, gold honors cord, gold honors sash, and any academic club sashes, cords, or pins.

Cum Laude - (3.75 – 3.99 GPA) These students must have completed a minimum of 4 A.P. courses. Students with this distinction will wear the Cum Laude gold medal with a black ribbon, gold honors sash, gold honors cord, and any academic club sashes, cords, or pins.

STEM Scholar- (3.5 – 3.74 GPA) Students with this distinction will wear gold cords and any honors pins.

CLASSIFICATION OF GRADE LEVEL

Sophomore- 5.5 credits

- Beginning in the 2020-2021 year, students must have at least 5.5 credits and have passed Algebra I, physical science, English 9, civics, and economics to be classified as a sophomore. Students who chose to forego taking civics and economics in 9th grade in order to take an AP class may still advance to the 10th grade. Students are allowed to recover up to two of these classes in summer, if necessary, to be allowed to move from the junior high to the high school.

Junior- 12 credits

Senior- 19 credits