Course Offerings

Elkins High School

2023 - 2024

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EXPERIENTIAL LEARNING

This requirement may be met in various ways: community service, school based enterprises, clinicals, Careers/Work Skills Training, or service learning as part of some regular classes. Students will keep a portfolio to document their experiences. Students are required to complete 10 hours of experience in their Career Concentration. Students may elect to do 60 hours of experiential learning for 1 credit (10 hours of the 60 must be in their Career Concentration

CORE ENGLISH COURSE DESCRIPTIONS

English 9

English 9 Honors is a five unit course designed to provide opportunities for students to develop the skills necessary for understanding and enjoying literature, while also developing key writing skills necessary for future success in college and in the workplace. Genre focuses include fiction, informational texts, argumentative texts, drama, poetry, and multigenre texts. Writing focuses include narrative writing, informational writing, argumentative writing, informational research writing, and literary analysis. Emphasis will also be placed on vocabulary development, listening, and speaking skills.

English 9 Honors - Weighted

Suggested prerequisite: B or above in previous required English class and teacher recommendation.
English 9 Honors is a six unit course designed to provide opportunities for students to develop the skills necessary for understanding and enjoying literature, while also developing key writing skills necessary for future success in college and in the workplace. Genre focuses include fiction, informational texts, argumentative texts, drama, poetry, and multigenre texts. Writing focuses include narrative writing, informational writing, argumentative writing, informational research writing, and literary analysis. Emphasis will also be placed on vocabulary development, listening, and speaking skills.

English 10

English 10 is a five unit course designed to provide opportunities for students to develop the skills necessary for understanding and enjoying literature, while also developing key writing skills necessary for future success in college and in the workplace. Literary Focuses include Modernism and Postmodernism, Ancient and Classical Literature, Surrealism, The Renaissance, Cross-cultural texts, and Magical realism. Genre focuses include fiction, argumentative texts, informational texts, drama, poetry, and multigenre texts. Writing focuses include literary analysis, informative writing, argumentative writing, and informational research writing. Emphasis will also be placed on vocabulary development, listening, and speaking skills.

English 10 Honors - Weighted

Suggested prerequisite: B or above in previous required English class and teacher recommendation.
English 10 is a six unit course designed to provide opportunities for students to develop the skills necessary for understanding and enjoying literature, while also developing key writing skills necessary for future success in college and in the workplace. Literary Focuses include Modernism and Postmodernism, Ancient and Classical Literature, Surrealism, The Renaissance, Cross-cultural texts, and Magical realism. Genre focuses include fiction, argumentative texts, informational texts, drama, poetry, and multigenre texts. Writing focuses include literary analysis, informative writing, argumentative writing, and informational research writing. Emphasis will also be placed on vocabulary development, listening, and speaking skills.

English 11 – Career Ready

English 11 is a five unit course designed to view American literature through a career focused lens that will provide students with an introduction to various reading, writing, speaking, and listening skills needed in the workplace. Literary focuses include Early American literature, Transcendentalism, Romanticism, Realism, Naturalism, Regionalism, The Harlem Renaissance, American Modernism, and Postmodernism. Genre focuses include fiction, informational texts, poetry, drama, argumentative texts, and multigenre texts. Writing focuses include narrative writing, informative writing, literary analysis, argumentative writing, and workplace writing.

English 11 - College Ready

English 11 is a five unit course designed to view American literature through a college preparatory lens that will provide students with an introduction to various reading, writing, speaking, and listening skills needed to succeed in college. Literary focuses include Early American literature, Transcendentalism, Romanticism, Realism, Naturalism, Regionalism, The Harlem Renaissance, American Modernism, and Postmodernism. Genre focuses include fiction, informational texts, poetry, drama, argumentative texts, and multigenre texts. Writing focuses include narrative writing, informative writing, literary analysis, and argumentative writing.

Advanced Placement English Language and Composition - Weighted

Suggested prerequisite: B or higher in previous English class and teacher recommendation; Completion of summer reading assignment.

Advanced Placement® English Language and Composition is a rigorous and challenging course equivalent to what students encounter in introductory level college English classes. The course is designed to teach "students to read primary and secondary sources carefully, to synthesize material from these texts in their own compositions, and to cite sources using conventions recommended by professional organizations such as the Modern Language Association (MLA)." (Syllabus 3) To achieve these goals, students will actively read, evaluate, and respond to various texts—both nonfiction and fiction—, photographs, films, music, and other multimedia resources on a daily basis using best practices for examining the rhetorical situation of texts, their effectiveness, their construction, and their impact. Successful students will not only perform well on the AP Language and Composition examination, but also will enter the world ready to discuss and engage others on a wide range of topics of inherent importance to modern life.

English 12 – Career Ready

English 12 is a five unit course designed to view British literature through a career focused lens that will provide students with an introduction to various reading, writing, speaking, and listening skills needed in the workplace. Literary focuses include the Medieval Period, the English Renaissance, the Enlightenment and Romanticism, Victorianism, Modernism, and Postmodernism and Postcolonialism. Writing focuses include narrative writing, informative writing, literary analysis, argumentative writing, and workplace writing.

English 12 - College Ready

English 12 is a five unit course designed to view British literature through a career focused lens that will provide students with an introduction to various reading, writing, speaking, and listening skills needed to succeed in college. Literary focuses include the Medieval Period, the English Renaissance, the Enlightenment and Romanticism, Victorianism, Modernism, and Postmodernism and Postcolonialism. Writing focuses include narrative writing, informative writing, literary analysis, and argumentative writing.

AP English Literature and Composition - Weighted

Suggested prerequisite: B in previous required English class and teacher recommendation; Completion of summer reading assignment.

AP English Literature and Composition engages students in careful reading and critical analysis of imaginative literature. Students deepen their understanding of how writers use language to provide both meaning and pleasure for readers. Students consider a work's structure, style, and themes as well as the use of figurative language, imagery, symbolism, and tone.

English 101/102 Dual Credit (Honors) - Weighted

Suggested prerequisite: 19 in English on ACT or 450 on the verbal portion of the SAT, and 3.0 GPA. Dual Credit entrance criteria may change as the higher educational institution changes requirements for dual credit classes. Completed summer assignments.

The course engages students in becoming skilled readers of prose from a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. The reading and writing reflect interactions among a writer's purposes, audience expectations, and subjects as well as how generic conventions and resources of language contribute to effective writing. To earn six college credit hours, students must earn a "B" in both courses. Students must purchase a text and pay a fee to the credit granting college or university.

ELECTIVE ENGLISH, COMMUNICATIONS, AND JOURNALISM COURSES

Creative Writing

This course will focus on creative nonfiction writing including memoir, the personal essay, innovative forms, and mixed-media, cross-genre, hybrid, and digital works. Students' own lived experience will be the foundation of all writing. The course will use a writing workshop model. Exceptional work will be submitted for publication and an anthology will be produced.

Creative Writing II

Suggested prerequisites: B average in previous required English class or teacher recommendation; Completion of Creative Writing I

Creative Writing builds on the students' prior creative nonfiction study and pushes them to branch into other genres including poetry and short story. Students will pursue independent writing projects. At the end of the course, students will create a portfolio of their work and present a finished collection of their work at a public reading.

Journalism I

Journalism I is a six unit introductory course focused on providing students with essential knowledge and skills needed for careers in print, digital, and multimedia journalism. Units of instruction include news literacy, news gathering, writing and editing, journalism law and ethics, photojournalism, and marketing and audience engagement. Students will produce articles for both the print and online news publication *The Eye of the Tiger*. Students will be required to attend after school and community events.

Journalism II-VI

Prerequisite: Completion of Journalism I; Teacher Recommendation

Journalism II-VI are advanced production based courses focused on providing students an experience in a simulated journalism workplace. Course topics may include leadership and team building, multimedia broadcast, interactive media design, podcast production, and long form journalism. Students will manage and create content for the print and online news publication *The Eye of the Tiger* as well as independent journalism projects. At the end of the course, students will create a portfolio of their work to use for college applications and job applications. Students will be required to attend after school and community events.

Journalism: Video/Podcast Production

Prerequisite: Completion of Journalism I; Teacher Recommendation

Journalism: Video/Podcast Production is an advanced production based course focused on providing students an experience in a simulated journalism workplace. Course topics may include interactive media design, podcast production, documentary filmmaking, and long form journalism. Over the course of the semester, students will independently create videos, documentaries, and podcasts for publication and broadcast. Students will be required to attend after school and community events.

Novel to Film

Suggested prerequisite: B or higher in previous English class.

Novel to Film is an upper level English elective that will focus on the study of novels that have been adapted to film. Students will explore both the literature and the film through various critical lenses. Students will be introduced to literary and film criticism through analysis of each medium.

Oral Communications

Oral Communications provides students with an introduction to various forms of oral communication. Students will learn how to develop, organize, and deliver speeches for various settings. Course topics include: managing speech anxiety, informative speaking, persuasive speaking, special occasion speaking, using visual aids, group communication, and classroom presentations.

Theatre I

Theatre I is an introduction to acting, technical theater, directing, and producing. Students will spend time in each area of theater. Solo and group performances will lead to development of confidence before an audience. Students will design and construct props and sets. Writing, direction, and producing scripts will be a third component of the class. This class is for students who are new to the theatre and will not include performance in a full-scale play although performances before an audience will be expected.

Theatre II-IV (Honors III, IV)

Suggested prerequisites: Theater I with a grade of B or above.

These classes expand on Theater I knowledge, focusing on acting techniques, scriptwriting, directing, and researching different styles and time periods of theatrical performance. It also will prepare students for further study and careers in theatre.

Yearbook

Prerequisite: Application process and teacher recommendation.

Yearbook provides students with the opportunity to be involved in a problem-solving project in producing the yearbook on an annual basis. An action plan is developed by students to establish a theme and purpose, steps in carrying out the project, and a means to evaluate the product. This course is open to students who demonstrate interest and/or skills in journalism, photography, graphic design, or digital media. Students will be required to attend after school and community events.

SOCIAL STUDIES

World Studies

Students will examine the development of various cultures beginning with the dawn of civilization through the Industrial Revolution. The course will emphasize the history, economics, politics and social structure of various cultural regions of the world. Emphasis will be placed on helping the student to appreciate various cultures with objectivity and understanding.

World Studies (HONORS)-Weighted

Suggested prerequisite: B average in previous required social studies class or teacher recommendation
This is the advanced course. A basis in historical facts will be developed to aid students in the growth of analytical skills. The course encourages the student to develop the ability to analyze and interpret historical evidence, and to acquire the ability to express one's understanding in written form.

United States Studies

This course will concentrate on the study of the United States from the emergence of England as a global power to American involvement in World War I. Emphasis will be placed upon the democratic revolution, the industrial revolution and the growth and mobility of population. Major topics covered in the course will be the discovery of America, the American Revolution, the Civil War, westward expansion and the mixing of cultures to create one that is uniquely American.

United States Studies (HONORS)-Weighted

Suggested prerequisite: B average in previous required social studies class or teacher recommendation
This course is the advanced course. A basis in historical facts will be developed to aid students in the growth of analytical skills. Class goals are to discuss and understand the major historical themes develop the ability to analyze and interpret historical evidence, and to acquire the ability to express one's understanding in written form.

CONTEMPORARY STUDIES - 11

This course examines interactions between the United States and the world from 1914 to the present. Students will engage in critical thinking and problem-solving using primary sources, textbooks, and data from a variety of credible electronic and non-electronic sources. The impact of world events on the individual citizen and the reciprocal impact of an individual's actions in the democratic process on world events will be emphasized.

CONTEMPORARY STUDIES - 11 (HONORS)

Suggested prerequisite: B average in previous required social studies class or teacher recommendation
This course is the advanced course. It is designed to broaden a student's appreciation for United States interaction in a contemporary world through the introduction of more in-depth concepts, supplemental readings, open-ended formal assessments, and enrichment projects.

AP UNITED STATES HISTORY AP®-*WEIGHTED*

Suggested prerequisite: Grade of A in U.S. Studies or teacher recommendation

AP United States History is a challenging course that is meant to be the equivalent of a freshman college course and can students earn college credit. It is a survey of United States history from the colonial period to the present. Advanced reading and writing skills are necessary to succeed. Emphasis is placed on critical and evaluative thinking skills, essay writing and interpretation of original documents. Throughout the semester students will be introduced to typical questions used on the AP exam which is administered in May. This course may replace Contemporary Studies. *College grading scale*

CIVICS FOR THE NEXT GENERATION - 12

This required course will give students a perspective on U.S. government and politics including the study of general concepts used to interpret U.S. politics. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. The course also includes instruction on personal finance.

CIVICS FOR THE NEXT GENERATION - 12 (HONORS)-*WEIGHTED*

Suggested prerequisite: B average in previous required social studies class or teacher recommendation

This advanced course will give students a perspective on U.S. government and politics including the study of general concepts used to interpret U.S. politics. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. The course also includes instruction on personal finance.

AP U.S. GOVERNMENT AND POLITICS (CIVICS) - 12 AP®-*WEIGHTED*

Prerequisite-Grade of B in previous social studies Honors or AP Course.

The AP course will give an analytical perspective on U.S. government and politics including 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. This course can replace Civics. *College grading scale*

ECONOMICS - 11 - 12

Economics is the study of how goods and services we want get produced, and how they are distributed among us. The student will develop the ability to analyze the many facts, events and issues in the economic world. Students will become better informed consumers as a result of this ability.

LEGAL STUDIES - 11-12 Legal Studies is a course that will teach students what law is, how laws are made, enforced, and changed. The Legal Studies class will experience powerful and interactive learning. This class will provide practical information and problem-solving opportunities that develop in students the knowledge and skills necessary for meaningful democratic engagement. The curriculum includes case studies, mock trials, role plays, and small-group exercises.

PSYCHOLOGY - 11 – 12

This course introduces students to the systematic and scientific study of human behavior and mental processes by examining empirically supported psychological facts, research findings, terminology, major figures, and perspectives. Topics include human lifespan development, learning, memory, thinking, language, sensation and perception, motivation and emotion.

SCIENCE

BIOLOGY (10th Grade Requirement)
This course involves the study of organic compounds, cell structure and function, photosynthesis, and cellular respiration, DNA and protein synthesis, Mendelian genetics, evolution, classification and ecology.

HONORS BIOLOGY-*WEIGHTED*
College Preparatory: Recommended for students planning to pursue post-secondary education. This course involves the study of organic compounds, cell structure and function, photosynthesis, and cellular respiration, DNA and protein synthesis, Mendelian genetics, evolution, classification and ecology. Material is covered in depth at an accelerated pace.

PHYSICAL SCIENCE (10,11,12) (Pre-requisite Biology)
Students will demonstrate knowledge in the fields of physical science. Students will engage in active inquiries, investigations and hands-on activities relating to matter, energy, chemical reactions, motion, forces, and electricity. Students will expand their understanding of scientific concepts. Topics in Honors will be covered in more detail and incorporate higher level thinking skills in data analysis and mathematics computation. Projects are required for honors credit.

PHYSICAL SCIENCE (HONORS) (10,11,12) (Pre-requisite Biology)
Through inquiry-based study, students will demonstrate knowledge in the fields of physical science. Students will engage in active inquiries, investigations and hands-on activities relating to matter, energy, chemical reactions, motion, forces, and electricity. Students will expand their understanding of scientific concepts. Topics in Honors will be covered in more detail and incorporate higher level thinking skills in data analysis and mathematics computation. Projects are required for honors credit.

HUMAN ANATOMY AND PHYSIOLOGY I - 10 - 12
Prerequisite is Biology. Can take during 10th grade year during second semester after completion of Biology. This course is the study of organ structure and function. The student will learn basic terminology, review cell chemistry and cell function, compare and study specialized cells and study the anatomy and physiology of organ systems such as skin, bones, muscles and nerve tissue. This course is designed to build upon the concepts, skills, and knowledge completed in previous science courses.

Earth Science (9th Grade Requirement)
Students will investigate aspects of Earth's systems including ocean currents, rocks and minerals, weather, and geologic activity with inquiry based activities and construction of scientific models of Earth's history and processes.

AP BIOLOGY (Honors)-*weighted. Pre-requisite: Honors Biology with grade of A or B, suggested: Chemistry.* (11, 12)
An introductory college-level biology course in which students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions.

ADVANCED BIOLOGY HONORS/DUAL CREDIT—*WEIGHTED* (11,12)

Suggested prerequisites: Honors Biology or a grade of A or B in Biology. This course examines in depth the fundamentals of biology with emphasis on the unity of life, energetics, genetics (biochemical and Mendelian), evolution, ecology and classification systems of organisms including kingdoms and domains. Structure of and relationships between specific groups of organisms will be studied. *Graded on college grading scale for BSC 104*

ADVANCED HUMAN BIOLOGY HONORS/DUAL CREDIT—*WEIGHTED* (11,12)

Suggested prerequisites: Human Anatomy or Advanced Biology. The course emphasizes the structure and function of human systems including the nervous, endocrine, digestive, respiratory, circulatory, excretory, and reproductive systems. Studies include development of the human embryo, evolution of complex body systems, nutrition and medicine, and population biology. *Graded on college grading scale for BSC 105*

ENVIRONMENTAL EARTH SCIENCE 10 – 12 (Prerequisite: Earth/Space and Biology)

This course is designed to develop an awareness of the relationship between man and his environment. This lab-based course will include four general areas: geology, the study of earth formation and the rock cycle; ecology, the study of the relationship between living organisms and their environment; meteorology, the study of weather; and environmental issues. The water cycle, land use, natural resource management, waste disposal, and pollution are among the environmental issues to be explored. Students will engage in active inquiries, investigations, and hands-on activities to develop understanding and laboratory skills.

CHEMISTRY I - 10 - 12

Suggested prerequisites: Must have credit in or be concurrently enrolled in Algebra II

This is a math-oriented course designed to prepare students for college chemistry. The course is a study of the theoretical concepts needed to gain an understanding of chemical phenomena. These concepts include matter, metric units of measurement, stoichiometric calculations, modern atomic theory, solutions and the calculation of concentration, energy and specific heat, chemical bonding and molecular structure, and the classification of reactions. Study also includes nomenclature of compounds as well as a study of acids and bases.

CHEMISTRY I HONORS *(WEIGHTED)*

This course is designed for college bound students planning on taking additional science classes at the post-secondary level. Topics covered in this class include, but is not limited to; Modern Atomic Structure, Nomenclature & Formula Writing, The Mole Concept, Chemical Reactions Stoichiometry, & The Gas Laws. Material is covered more in-depth & at an accelerated pace. More time will be devoted to experimentation with a required lab notebook.

CHEMISTRY II - 11 & 12-*WEIGHTED*

Suggested prerequisite: Chemistry I grade of C or above; for dual credit must have ACT math score of 19 or 460 on SAT Math.

This course is recommended for students who desire to pursue careers in chemistry, engineering, or medicine. It encompasses a review of the most important concepts from Chemistry I and a study of some of those concepts in more detail and depth. Emphasis is placed on refining laboratory skills as well as learning new ones. Labs will include the use of technology.

AP Chemistry - 11-12 - HONORS/WEIGHTED -

Prerequisite: Chemistry with a B or above. Recommended: Alg. II or above.

Given the speed with which scientific discoveries and research continuously expand scientific knowledge, many educators are faced with the challenge of balancing breadth of content coverage with depth of understanding. The AP® Chemistry course addresses this challenge by focusing on a model of instruction which promotes enduring, conceptual understandings and the content that supports them. This approach enables students to spend less time on factual recall and more time on inquiry-based learning of essential concepts, and helps them develop the reasoning skills necessary to engage in the science practices used throughout their study of AP Chemistry.

Forensic Science

Forensic Science is an advanced, high school elective course designed to provide students with hands-on experiences in various aspects of a criminal investigation. Science content and Engineering, Technology, and the Application of Science objectives are integrated as students ask questions and define problems, develop and use models, plan and conduct investigations, analyze and interpret data, construct explanations and design solutions as they consider crime scenes, evidence, and protocol. As students demonstrate proficiency in evidence collection--maintenance of data integrity, formulation of a conclusion/summary, and succinct communication of findings--they prepare for forensic-related careers and other occupational opportunities in science, technology, engineering, and math.

General Physics - 10-12

This course provides a conceptually-based exposure to the fundamental principles and processes of the physical world. Topics may include basic concepts of motion, forces, energy, heat, electricity, magnetism, and the structure of matter and the universe. Laboratory experiments and computerbased exercises enhance and consolidate the understanding of basic physical principles and applications. This class is intended for those that are interested in physics but may not be going to college.

Physics - 11-12- HONORS/WEIGHTED

Prerequisite: Geometry with a B or above

Physics is designed for those planning careers in science, physical therapy, engineering, dentistry, pharmacology, etc. This course prepares students for college-level physics.

Physics 1 AP - 11-12- HONORS/WEIGHTED

Prerequisite: Geometry with a B or above

This course is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits.

MATHEMATICS

Algebra I/Algebra Support- 9

This course builds on the College and Career Readiness Grade 8 standards and is correspondingly more advanced than our previous Algebra I course. Because many of the topics previously included in the Algebra I course are in the Next Generation Grade 8 standards, the High School Algebra I course starts with more advanced topics and includes more in depth work with linear functions, exponential functions and relationships, quadratic functions, transformations and connecting algebra and geometry through coordinates. It also goes beyond the previous high school standards in statistics. Students will get one credit for Algebra I and one credit for Algebra Support.

Algebra I (Honors - Weighted)/Algebra Support-9:

This course builds on the College and Career Readiness Grade 8 standards and is correspondingly more advanced than our previous Algebra I course. Because many of the topics previously included in the Algebra I course are in the Next Generation Grade 8 standards, the High School Algebra I course starts with more advanced topics and includes more in depth work with linear functions, exponential functions and relationships, quadratic functions, transformations and connecting algebra and geometry through coordinates. It also goes beyond the previous high school standards in statistics. Taught at a quicker pace with a more in depth look at the concepts. Students will get one credit for Algebra I and one credit for Algebra Support.

ALGEBRA II - 9 -12

Prerequisite: Algebra I

This course is an extension of Algebra I and Geometry with an emphasis on understanding and use of algebraic structures and techniques. The complex number system is introduced. Topics covered in this course include the solution of quadratic equations, relations and functions, properties of polynomial functions and rational expression and functions.

ALGEBRA II - 9 -12 HONORS-Weighted

Prerequisite: Grades of A or B in Algebra I and Geometry

This course is an extension of Algebra I with an emphasis on understanding and use of algebraic structures and techniques. The complex number system is introduced. Topics covered include solution of quadratic equations, relations and functions, properties of polynomial functions. Taught at a quicker pace, with a more in-depth look at the concepts and rational expressions and functions.

Algebra III (11 & 12)

Prerequisite: C average or higher in Algebra II

Algebra III is intended for students who have mastered the concepts of Algebra I, Geometry, and Algebra II. It will develop and extend properties of higher degree polynomial functions, rational functions, exponential functions, and logarithmic functions using the common concepts and language of algebraic, graphical and tabular representations. The use of analytic geometry for sense making, conceptual understanding of abstract ideas and modeling real world application is stressed, making use of calculators, computers and interactive activities.

GEOMETRY - 9 - 12

Prerequisite: Algebra I

The geometry course is designed to introduce the student to a formal mathematical system. Basic concepts of logic are developed using the concepts of congruence and similarity in dealing with geometric figures. Applications of geometrical concepts are stressed throughout the course.

GEOMETRY - 9 – 12 HONORS-Weighted

Prerequisite: Grade of A or B in Algebra I

The course introduces the student to a formal mathematical system. Basic concepts of logic are developed using the concepts of congruence and similarity in geometric figures. Applications of geometrical concepts are stressed throughout the course. Taught at a quicker pace, it includes formal proofs and a more in-depth look at the concepts.

Mathematical Modeling- (11-12)

Students continue to build upon their algebra and geometry foundations and expand their understanding through further mathematical experiences. The primary focal points of Advanced Mathematical Modeling include the analysis of information using statistical methods and probability, modeling change and mathematical relationships, mathematical decision making in finance, and spatial and geometric modeling for decision-making. Students learn to become critical consumers of the quantitative data that surround them every day, knowledgeable decision makers who use logical reasoning and mathematical thinkers who can use their quantitative skills to solve problems related to a wide range of situations. As they solve problems in various applied situations, they develop critical skills for success in college and careers, including investigation, research, collaboration and both written and oral communication of their work. As students work with these topics, they continually rely on mathematical processes, including problem-solving techniques, appropriate mathematical language and communication skills, connections within and outside mathematics and reasoning. Students also use multiple representations, technology, applications and modeling and numerical fluency in problem-solving contexts.

Transition Mathematics for Seniors*

Transition Math for Seniors prepares students for their entry-level credit-bearing liberal studies mathematics course at the post-secondary level. This course will solidify their quantitative literacy by enhancing numeracy and problem solving skills as they investigate and use the fundamental concepts of algebra, geometry, and introductory trigonometry. **See current policy for placement criteria.*

PRE-CALCULUS – 11 – 12 Honors - WEIGHTED/DUAL CREDIT

Prerequisite: Grade of B or higher in Algebra II Honors; For College Credit: Must have ACT Math score of 19 or 510 on SAT Math prior to enrollment. Must have a GPA of 3.0 on a 4.0 scale. Cost for the 3 College Credit course is $75.00

This course introduces the foundations of analysis designed to precede Calculus with an emphasis on functions and graphs.

COLLEGE TRIGONOMETRY – 11 – 12 Honors/ WEIGHTED/DUAL CREDIT

Prerequisite: Pre-Calculus. For college credit: Must have taken Pre-Calculus for College Credit.

This course is designed to develop an understanding of triangular and circular functions, use of verifying fundamentals identities, trigonometric equations and graphs, inverse trigonometric functions and graphs, radian measures and their applications, proficient use of the unit circle, polar coordinates and graphing, DeMoivre's Theorem, product and quotient theorems, and parametric equations.

AP CALCULUS AB- 11-12 HONORS/WEIGHTED

Prerequisite: Pre-Calculus with grade of B or above

AP Calculus AB is a course that meets the requirements set by the College Board. It focuses on the basic concepts of analytic geometry and calculus, to see their relevance in science and technology and to apply their methods in the solution of real, substantive problems. The course will concentrate on a thorough development of basic concepts such as functions and their inverses, limits, continuity, derivatives, integral convergence and vectors. This course will prepare the student for the AP Calculus AB exam and post-secondary mathematics courses.

AP CALCULUS BC- HONORS/WEIGHTED

Prerequisite: AP Calculus AB

Advanced Placement (AP) Calculus BC is a college-level mathematics course for students that have previously demonstrated mastery of Algebra I and II, Geometry, Trigonometry, Pre-Calculus, and AP Calculus AB. Students will develop a deeper understanding of the concepts of calculus and provide experience with its methods and applications. The course will emphasize a multi-representational approach to calculus, with concepts, results, and problems being expressed geometrically, numerically, analytically, and verbally. Additionally, a special emphasis of the course will be preparation for the Advanced Placement Calculus BC exam.

AP STATISTICS –HONORS/WEIGHTED

Prerequisite: Grade of A or B in Algebra II

The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Four broad conceptual themes are covered: exploring data; sampling and experimentation; anticipating patterns; and statistical inference.

Computer Science Course Sequence Note:

AP CS A and AP CS P are independent courses that can be taken in either order or at the same time.

COMPUTER SCIENCE-Mathematics (CS-M) Honors/Weighted

This introduction to programming course is designed to provide students with the opportunity to explore the uses of mathematics and computer programming as tools in creating effective solutions to complex problems. Students will develop and refine fundamental skills of computer science within a mathematical context.

AP COMPUTER SCIENCE A (CS-A) –HONORS/WEIGHTED

Prerequisite: Successful completion of Computer Science-Mathematics (CS-M), or AP Computer Science Principles.

AP Computer Science A is an introductory course in computer science. Because the design and implementation of computer programs to solve problems involve skills that are fundamental to the study of computer science, a large part of the course is built around the development of computer programs that correctly solve a given problem. These programs should be understandable, adaptable, and, when appropriate, reusable. At the same time, the design and implementation of computer programs is used as a context for introducing other important aspects of computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, the study of standard algorithms and typical applications, and the use of logic and formal methods. In addition, the responsible use of these systems is an integral part of the course.

AP COMPUTER SCIENCE PRINCIPLES (CS-P) –HONORS/WEIGHTED

Prerequisite: Successful completion of Computer Science-Mathematics.

AP Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. With a unique focus on creative problem solving and real-world applications. Whether it's 3-D animation, engineering, music, app development, medicine, visual design, and robotics, or political analysis, computer science is the engine that powers the technology, productivity, and innovation that drive the world. This course provides an experience that has become an imperative for today's students and the workforce of tomorrow.

****Please see end of Course Offerings Document for additional information for Pre – Calculus****

Pre – Calculus for College Credit

- College Credit is College Algebra from West Virginia University
- Cost is $125
- MUST have qualifying ACT or SAT math score to enroll in the WVU class. This means take the ACT or SAT in the spring to have scores back BEFORE August.

ACT MATH: 19 SAT MATH: 510

- If you do not earn a qualifying score on the ACT or SAT, you can complete the Aleks testing through WVU. There is an additional fee for this test. This is an online program with learning modules and an online proctored test. **This must be completed over the spring or summer – BEFORE AUGUST!**
- All WVU students will take Pre – Calculus at the same time (potentially 1st Block – to be announced during scheduling).
- You **CAN** enroll in Honors Pre – Calculus as a high school course without taking the college credit.
- You must take Pre – Calculus before you take Trigonometry.
- You CANNOT take Trigonometry for college credit if you DO NOT take Pre – Calculus for college credit**.**
- **BOTH** Pre – Calculus and Trig are required to take AP Calculus, but you do not have to take them as college courses.

Still questions??
Contact Mrs. McCauley @srmccaul@k12.wv.us

Elective Classes

Life 101 – 10 -12
Life Skills is designed to increase student knowledge and **skills** necessary for everyday living.
The **course** emphasizes goal-setting, decision making and problem solving, communication, healthy lifestyles and relationships, nutrition, personal safety, citizenship and consumerism.

HEALTH AND PHYSICAL EDUCATION

HEALTH – 9
This course focuses on health promotion, disease prevention, health information and services, health behaviors, culture, media and technology, communication, goal setting, decision making, and advocacy. These concepts will be examined through discussions, debates, and class projects.

PHYSICAL EDUCATION – 10
This course focuses on fitness, diverse movement forms, and emphasis of lifetime physical activity. Activities include team sports, individual and dual sports/activities, non-competitive individual activities, outdoor activities, and dance/rhythmic activities.

Lifetime PE- (11-12)
This class is designed for students in grades 11 and 12 who want to explore lifetime sports and fitness.

Weight Training:
A general physical education class consisting of fitness components: aerobic conditioning, injury prevention, strength/endurance training, and nutrition. The course objective is to prepare the student for continued participation and appreciation of personal fitness**.**

Health & Fitness:
This class has a fitness and wellness component that puts an emphasis on student's physical, mental, and social health. Students plan and follow their own fitness plan, and participate in activities to improve their overall health.

FINE AND PERFORMING ARTS

Weighted grades in this department are only through contract under the following guidelines: Class is level III or IV after completion of levels I and II; Teacher recommendation. Performance must meet standards for level on state Content Standards; Signed contract with parent, student, teacher, administration.

Art I 9 – 12

Art I students produce two-dimensional and three-dimensional art using a variety of media and techniques. Technology is used for research and photo editing. Art projects are in the context of history, culture and art movements.

Art II

Prerequisites: Art I with a grade of C or above.
Art II students build on the skills learned in Art I to produce two-dimensional and three-dimensional art using a variety of media and techniques. Focus is on exploring new media and art movements in the context of history.

Art III

Prerequisites: Art II with a grade of B or above. Honors Available
Art III students continue to develop their art skills to produce two-dimensional and three-dimensional art using a variety of media and techniques. Focus is on exploring, expanding and refining an individual art style based on knowledge of art movements and art in the context of history and culture. Portfolio development with reflection is a focus using 21st Century Skills.

Art IV

Prerequisites: Art III with a grade of B or above. Honors Available
Art IV students continue to develop their art skills to produce two-dimensional and three-dimensional art using a variety of media and techniques. Focus is on exploring, expanding and refining an individual art style based on knowledge of art movements and art in the context of history and culture. Portfolio development with reflection is continued from Art III using 21st Century Skills.

Art History Appreciation

Art History, Appreciation and Aesthetics (Grades 9 – 12) Students will select/describe, analyze, interpret/ translate and evaluate cultural and multicultural influences on the arts, including social, political, economic, functional and aesthetic considerations. Students will develop a variety of critical analyses and examine different philosophies and viewpoints. Students' experiences with art media within its historical context will connect selected artwork to the artist's process. Products and/or presentations relate cognitive learning to artistic practices. Knowledge of related careers in the fields of art history and aesthetics are covered as well as the application of technology to assist learning.

Ceramics I (Studio Art I)

Prerequisites: Art I with a grade of C or above.
Ceramic students produce three-dimensional art using a variety of pottery techniques. Ceramics is explored and researched in the context of crafts, history and culture using 21st Century skills.

Ceramics II (Studio Art II)
Prerequisites: Ceramics I with a grade of B or above.
Ceramic students continue to develop their pottery skills using a variety of techniques. Ceramics is explored and researched in the context of crafts, history and culture using 21st Century skills.

Crafts I (Studio Art I)
Prerequisites: Art I with a grade of C or above.
Crafts is a hands-on production course. Students explore traditional crafts including weaving, book binding, fiber art and pottery. Craftsmanship is expected. Traditional crafts are explored in the context of producing artists, history and culture.

BAND I-IV-Honors III, IV
Instrumental music offering the experience beyond the classroom/general music course. It offers a framework for the band area of study in a marching and concert band settings including, but not limited to, parade marching, football half-time and selected boy's and girls' basketball performances, field competitions and selected concerts. Students are required to participate in a summer band schedule including band camp. The students will be required to participate in trips and performances. It is expected that students continue into instrumental performance situations. Honors credit can be offered with teacher recommendation.

Jazz Band – 10 – 12 – **Sign up by Teacher Signature only!**
Students will learn about and perform a wide variety of Jazz Styles. They will discuss the social and musical relevance of the literature. This will be a performance ensemble and advanced band class.

Piano - 9-12
Learn the basics of piano. The student will study the origins and listen to a variety of piano selections

Guitar – 9 – 12
Student must provide their own guitar. The student will learn the basics of the guitar. Students will also study the origins in a variety of cultural context.

CHOIR I - IV – Honors - 9 – 12
This choir is designed to continue development of the basic fundamentals of vocal production. It will assist in the basic understanding of choral music. This is a participation- based class. Singers will study a variety of quality choral literature; both accompanied an *a capella.* Students must be able to match pitch. Public performances to a variety of audiences are required. Prior singing experience at any level is recommended but not required. Class rehearsal participation in all choir events is expected.

Folk Music I-IV
Study of Appalachian Music, culture, Dulcimer, and arts. This is a participation- based class which uses an instrument or voice medium to create music projects guided by instructor. This includes an assortment of Folk life activities surrounding Folk mediums. End of semester project is required or performance.

History of Rock and Roll
History of Rock and Roll is a course designed to familiarize the student with the history of popular music with a focus on rock and American music. Prominent players and groups of each era will be covered, as well as sociological, economic, and cultural factors that shaped the many styles of rock music.

Film Music
In this course, students will explore history of film music with the purpose of gaining an understanding of its role, observe various approaches to how music is used in a film, explore the elements of music as they relate to the making of a soundtrack, examine difference genres of movies and understand stylistic elements within the genre, and examine how music interacts with other elements in the soundtrack (dialogue, sound effects) that accompany the visual aspect of the film to create a compelling work of art. Students will learn how music affects how we perceive a moving picture, and will be able to watch movies with a new understanding of how the picture and soundtrack combine.

Chamber Music
Students will play a variety of musical styles in a chamber ensemble determined by class enrollment. Students will explore a variety of playing environments, musical notations, and advanced performing techniques. This will serve as an opportunity for students to prepare audition materials, prepare for solo and ensemble festival, and plan recitals.

Music Appreciation (9-12)
This class is the study of Western Classical music, composers, instruments, and a variety of music genres. Students will study music of other cultures and styles of popular music; the course encourages students to develop listening/critical skills. Sound and videos will play an integral part in the class. **Notebook and Folder required**

Music Theory Honors –
Students will learn to recognize, understand, and describe the basic materials and processes of music. They will develop skills by listening to, reading, analyzing, and performing a wide variety of music. These skills include but are not limited to identifying features of the elements of music, reading, sight singing, & notating music you hear.

FOREIGN LANGUAGE

SPANISH 1

Spanish 1 introduces students to the language and cultures of the Spanish-speaking world. Students will learn to use high frequency vocabulary to narrate, interpret, describe and interact in conversation and in writing while applying Spanish to their own experience. Students will be guided to perform at a Novice Mid proficiency level.SPANISH 2 (with Spanish 2-H honors option)

Spanish 2 provides students further knowledge of the language and cultures of the Spanish-speaking world. Students will continue learning to use high frequency vocabulary to narrate, interpret, describe and interact in conversation in the present and past tenses and apply Spanish to their own experience. Students will be guided to perform at a Novice High proficiency level.

Honors Option: Students who earned an "A" or "B" in Spanish 1, may attempt to earn Spanish 2 Honors Credit. To earn credit, students must reach a standard benchmark on an online proficiency assessment consisting of reading, writing, listening, & speaking.

Only students achieving an "A" or "B" in Spanish 2 will be permitted to continue on to Spanish 3.

SPANISH 3-H

Spanish 3 Honors provides students further knowledge of the language and cultures of the Spanish-speaking world. Students will use more varied and complex vocabulary and structures to narrate, interpret, describe and interact in conversation in various time frames and apply these structures to their own experience and community.

Students will increasingly use authentic sources produced by and for native speakers and be guided to perform at an Intermediate Low proficiency level. Students are often placed in a Spanish 1 or Spanish 2 class and may serve as classroom tutors and assistants.

Students will earn honors credit in Spanish 3.

SPANISH 4-H

Spanish 4 Honors provides students further knowledge of the language and cultures of the Spanish-speaking world. Students will use more varied and complex vocabulary and structures with greater control to narrate, interpret, describe and interact in oral and written conversation. Using various time frames, students will present, compare, and contrast their own experiences in their communities and the world.

Students will increasingly use authentic sources produced by and for native speakers. Students will be guided to perform at an Intermediate Mid proficiency level. Students are often placed in a Spanish 1 or Spanish 2 class and may serve as classroom tutors and assistants.

Students will earn honors credit in Spanish 4. (Subject to availability and faculty pre-approval). Students should attempt the Seal of Biliteracy (if not yet earned) and may take the AP exam with pre-approval.

SPANISH 5H

Spanish 5 gives students freedom to explore the language and cultures of the Spanish-speaking world. Students will use more varied and complex vocabulary and structures with greater control to narrate, interpret, describe and interact in oral and written conversation. Using various time frames, students will present, compare, and contrast their own experiences in their communities and the world.

Students will predominantly use authentic sources produced by and for native speakers. Students will be guided to perform at an Intermediate Mid or higher proficiency level. Students are often placed in a Spanish 1 or Spanish 2 class and may serve as classroom tutors and assistants.

Students will earn honors credit in Spanish 4. (Subject to availability and faculty pre-approval). Students should attempt the Global Seal of Biliteracy (if not yet earned) and may take the AP exam with pre-approval.

AGRICULTURE

INTRODUCTION TO AGRICULTURE, FOOD, AND NATURAL RESOURCES (9-12)

This is the core introduction course for all Agriculture Majors that builds a knowledge base and technical skills in all aspects of the industry. Learners will be exposed to a broad range of plant and animal production subjects from rabbits to cattle and vegetables to hay. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teacher will provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FFA.

NATURAL RESOURCES MANAGEMENT (10-12) (Can count as a 3rd or 4th Science Lab class)

This is a core class for the Natural Resources Concentration. Topics covered include soil, forest, wildlife, land, and water management as well as environmental laws and regulations. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teacher will provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FFA

FISH AND WILDLIFE MANAGEMENT (10-12)

This specialization course in the Natural Resources Concentration covers topics on advanced wildlife management principles, water quality, fish biology, history of fish and wildlife, habitat management, life history and wildlife values as well as natural resources. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teacher will provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FFA.

ANIMAL PRODUCTION AND MANAGEMENT (10-12)

This course is a core course in the Animal Systems Concentration. The course will cover chickens to sheep and rabbits to milk cows and explore topics on animal restraint, animal management techniques, animal health and welfare, balancing rations, pedigree analysis and entrepreneurship. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teacher will provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FFA.

COMPANION ANIMAL CARE (10-12)

This is a specialization course in the Animal Systems Concentration designed for students interested in entering the companion animal industry as a pet groomer, animal care giver, veterinarian and/or companion animal entrepreneur. The course will cover topics on grooming, animal restraint, developing feed rations, business planning, developing marketing plans, health and animal facilities as they apply to various companion animals such as dogs, cats, rodents, birds, reptiles, amphibians and fish. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teacher will provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FFA.

SUPERVISED AGRICULTURAL EXPERIENCE PROGRAM (9-12)

One-half credit; to earn one full credit, students must complete two years' experiences before their senior year. The Supervised Agricultural Experience program is a hands-on, student planned way for them to apply skills learned in the classroom to real world agricultural experiences. With help from their agricultural teacher, students develop an SAE project based on one or more SAE categories: Entrepreneurship; own and operate an agricultural business (e.g. a lawn care service, a pay-to-fish operation, holiday poinsettia production and sales.) Placement; get a job or internship on a farm or ranch, at an agriculture-based business, work at their house, shadow a veterinarian or work in a school or factory laboratory

MISCELLANEOUS

DRIVER EDUCATION – (9 – 12) Suggested prerequisite: Be sixteen (16) years old before the course is completed. Learners will be expected to demonstrate competency in light traffic driving, basic procedures and maneuvers, rural highway driving, town and city driving, multi-lane driving and emergency driving maneuvers. Students must have sixty-six hours of classroom instruction and six hours behind the wheel driving experience. Anyone whose license has been revoked is ineligible.

CAREER EXPLORATION (EDUCATIONAL TUTORING) - 11 – 12
Students should have fewer than 5 total year absences, a GPA of 3.0 or higher, and a clean discipline record. The tutoring experience has one challenging expectation - to raise the grade level performance of students in the primary/elementary grades in a one-on-one and group setting. Tutors are responsible for assisting in the day to day activities of the classroom. Along with group and one -on -one work, you will be responsible for a digital weekly journal and two digital projects throughout the semester. Students should be highly motivated, enjoy challenging projects, feel comfortable with young children, and have a high degree of patience.