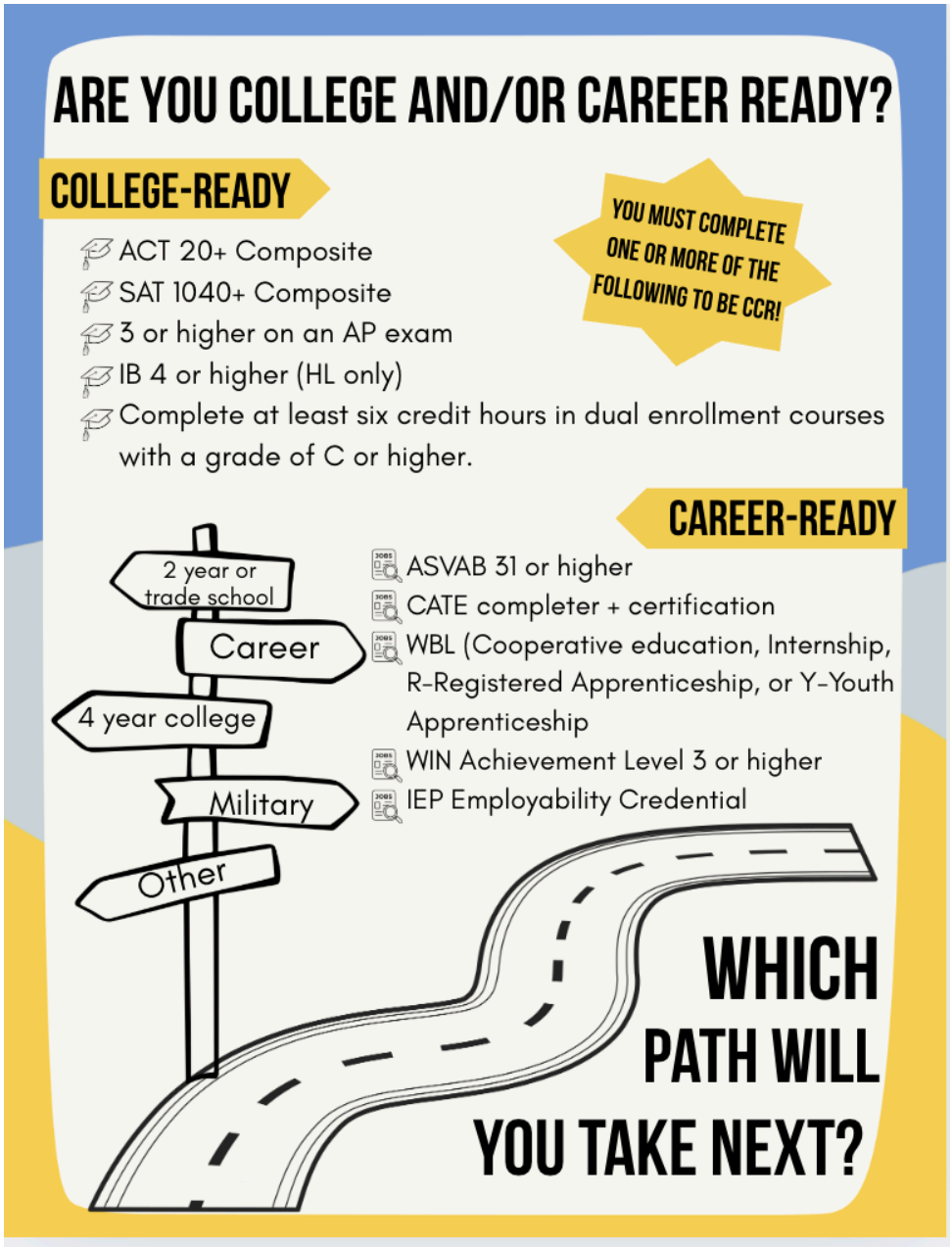
Tab 1

Lexington High School
Course Guide
2026-2027



GRADUATION REQUIREMENTS

To be eligible to receive a South Carolina High School Diploma, students must earn 24 units. Based on state law, requirements to receive a South Carolina High School Diploma (graduation requirements) for students in Grades 9–12 are prescribed as follows:

English	4 Units
U.S. History	1 Unit
Economics	1/2 Unit
Government	1/2 Unit
Other Social Studies	1 Unit
Mathematics	4 Units
Sciences**	3 Units
Computer Science	1 Unit
Physical Education or JROTC	1 Unit
World Language or Career/Technology Elective	1 Unit
Electives	7 Units*
Total Required	24 Units

*2023-2024 incoming 9th graders and beyond must earn ½ credit of Personal Finance as part of their elective requirements.

**Biology and two more.

Note: All ninth-grade students at LHS are required to take Strategies for Success to fulfill the health requirement and Personal Finance to meet the new ½ credit graduation requirement. This is automatically scheduled for all incoming 9th graders.

COURSE REQUIREMENTS TO
S.C. PUBLIC COLLEGES AND UNIVERSITIES

The Commission on Higher Education (CHE) establishes the minimum course requirements for students who plan to attend a public college in South Carolina. Some colleges require courses in addition to those listed below (see college catalogs for admission requirements).

ENGLISH

Four units — At least two units must have strong grammar and composition components, at least one must be in English literature, and at least one must be in American literature. Completion of College Preparatory English 1, 2, 3 and 4 will meet this criterion.

MATHEMATICS

Four units — including Algebra I (for which Algebra 1 Part One and Two may count together as a substitute, if a student successfully completes Algebra 2), Algebra 2, and Geometry. A fourth higher-level mathematics course should be selected from among Algebra 3/trigonometry, precalculus, calculus, probability and statistics, discrete mathematics, or a capstone mathematics course and should be taken during the senior year.

LABORATORY SCIENCE

Three units — Two units must be taken in two different fields of the physical or life sciences and selected from among biology, chemistry, earth science, or physics. The third unit may be from the same field as one of the first two units (biology, chemistry, earth science, or physics) or from any laboratory science for which biology, earth science, and/ or chemistry is a prerequisite.

It is strongly recommended that students desiring to pursue careers in science, mathematics, engineering or technology take one course in all three fields.

WORLD LANGUAGE

Two units— Two levels of the same world language (some colleges require more)

SOCIAL SCIENCES

Three units — One unit of U.S. History is required; a half unit of Economics and a half unit in Government are strongly recommended.

VISUAL AND PERFORMING ARTS

One unit — One unit in appreciation, history or performance in one of the visual and performing arts.

PHYSICAL EDUCATION/JROTC

One unit — Physical education or JROTC

ELECTIVE:

TWO UNITS OF ELECTIVES: Two units must be taken as electives. A college preparatory course in Computer Science (i.e., one involving significant programming content, not simply keyboarding or using applications) is strongly recommended for this elective. Other acceptable electives include college preparatory courses in English; fine arts; foreign languages; social science; humanities; mathematics; physical education; and laboratory science (courses for which biology, chemistry, physics, or earth science is a prerequisite).

You may find more resources and information on the Commission of Higher Education's website

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ENGLISH

***Grade level recommendations for courses are based on the district's scope and sequence, however, schools make scheduling decisions in the best interest of each student.**

The SC College and Career Ready Standards for English Language Arts are the culmination of an extended, broad- based effort to fulfill the charge issued by the states to create the next generation of K-12 standards in order to help ensure that all students are college and career ready.

Students advancing through the grades are expected to meet each year's grade specific standards, retain or further develop skills and understandings mastered in preceding grades, and work steadily toward meeting the more general expectations described by the standard.

In order to receive a South Carolina high school diploma, students are required to earn at least four core (non-elective) units in English. The district endorses the practice of taking an English course each year of high school. The SC End-of-Course Examination Program (EOCEP) requires an end-of-course test at the end of English 2.

Secondary Literacy **308600CW**
Grade 9 LHS ONLY **1 unit elective credit**
***paired with English 1 with teacher recommendation**

Enrollment is based on standardized test scores. The course is designed to strengthen literacy skills and strategies required by all content areas. A variety of print and multimedia materials are used to enhance comprehension. Through reading and writing workshop and direct instruction, students build strategies for creating an assortment of visual, oral, and written responses in order to analyze texts. Students are expected to provide structured evidence of their learning.

English 1 **302400CW**
Grade 9 **1 unit**

In this course, students write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences. Students initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners about topics, texts and issues, building on others' ideas and expressing their own clearly and persuasively.

Students are expected to apply knowledge of language to understand how language functions in different contexts, to make effective choices for meaning or style, and to

comprehend more fully when reading or listening. In addition, students acquire and use general academic and domain- specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level. By the end of the course, students should be able to read and comprehend a variety of literary and informational texts proficiently.

English 1 Honors **302400HW**
Grade 9 **1 unit**

Recommended: Grade of 80 or better in the previous English course

In this course, students write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences. Students initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners about topics, texts and issues, building on others' ideas and expressing their own clearly and persuasively.

Students are expected to apply knowledge of language to understand how language functions in different contexts, to make effective choices for meaning or style, and to comprehend more fully when reading or listening. In addition, students acquire and use accurate general academic and domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level.

Students engage in Socratic Seminars where they seek deeper understanding of complex ideas in text through rigorously thoughtful dialogue. Honors students are expected to read and comprehend complex literary and informational texts independently and proficiently.

English 2 **302500CW**
Grade 10 **1 unit**

Requirement: S.C. End-of-Course Examination Program English 2 End- of-Course Test
Prerequisite: English 1

In this course, students write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences. Students initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners about topics, texts and issues, building on others' ideas and expressing their own clearly and persuasively. Students are expected to apply knowledge of language to understand how language functions in different contexts, to make effective choices for meaning or style, and to comprehend more fully when reading or listening. In addition, students acquire and use accurate general academic and domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level.

By the end of the course, students should be able to read and comprehend a variety of literary and informational texts proficiently. At the end of this course, students will take the S.C. End-of-Course Examination Program English 2 End- of-Course Test.

English 2 Honors **302500HW**
Grade 9, 10 **1 unit**

Prerequisite: English 1 or English 1 Honors

Requirement: S.C. End-of-Course Examination Program English 2 End- of-Course Test

Recommended: Grade of 80 or better in the previous English course

In this course, students write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences. Students initiate and participate effectively in a range of collaborative discussions

(one-on-one, in groups, and teacher-led) with diverse partners about topics, texts and issues, building on others' ideas and expressing their own clearly and persuasively. Students are expected to apply knowledge of language to understand how language functions in different contexts, to make effective choices for meaning or style, and to comprehend more fully when reading or listening. In addition, students acquire and use accurately general academic and domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level. Students engage in Socratic Seminars where they seek deeper understanding of complex ideas in text through rigorously thoughtful dialogue. Honors students are expected to read and comprehend complex literary and informational texts independently and proficiently. At the end of this course, students will take the S.C. End-of-Course Examination Program English 2 End- of-Course Test.

English 2 Honors Pre IB **30250BHW**
Grade 9, 10 **1 unit**

Prerequisite: English 1 Honors

Requirement: S.C. End-of-Course Examination Program English 2 End- of-Course Test

Recommended: Grade of 80 or better in the previous English course

In this course, students write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences. Students initiate and participate effectively in a range of collaborative discussions

(one-on-one, in groups, and teacher-led) with diverse partners about topics, texts and issues, building on others' ideas and expressing their own clearly and persuasively. Students are expected to apply knowledge of language to understand how language functions in different contexts, to make effective choices for meaning or style, and to comprehend more fully when reading or listening. In addition, students acquire and use accurately general academic and domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level. Students engage in Socratic Seminars where they seek deeper understanding of complex ideas in text through rigorously thoughtful dialogue. Honors students are expected to read and comprehend complex literary and informational texts independently and proficiently. At the end of this course, students will take the S.C. End-of-Course Examination Program English 2 End- of-Course Test.

English 3 **302600CW**
Grade 11 **1 unit**
Prerequisite: English 2

In this course, students gather relevant information from multiple print and multimedia sources. Students effectively assess the strengths and limitations of each source in terms of the task, purpose, and audience, integrate information into the text selectively to maintain the flow of ideas, avoid plagiarism and over-reliance on any one source and follow a standard format for citation. Students write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences. Students must initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners about topics, texts and issues, building on others' ideas and expressing their own clearly and persuasively.

Students present information, findings, and supporting evidence to convey a clear and distinct perspective, such that listeners can follow the line of reasoning. Students ensure the organization, development, substance, and style of their presentation (written or oral) are appropriate to purpose and audience in a range of formal and informal tasks. Students acquire and use accurately general academic and domain- specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness

level. By the end of the course, students should be able to read and comprehend a variety of literary and informational texts proficiently.

English 3 Honors **302600HW**
Grade 10, 11 **1 unit**

Prerequisite: English 2 or English 2 Honors

Recommended: Grade of 80 or better in the previous English course

In this course, students gather relevant information from multiple print and multimedia sources. Students effectively assess the strengths and limitations of each source in terms of the task, purpose, and audience, integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and over-reliance on any one source and follow a standard format for citation. Students write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences. Students must initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners about topics, texts and issues, building on others' ideas and expressing their own clearly and persuasively.

Students present information, findings, and supporting evidence to convey a clear and distinct perspective, such that listeners can follow the line of reasoning. Students ensure the organization, development, substance, and style of their presentation (written or oral) are appropriate to purpose and audience in a range of formal and informal tasks.

Students engage in Socratic Seminars where they seek deeper understanding of complex ideas in text through rigorously thoughtful dialogue. Students acquire and use accurately general academic and domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level. By the end of the course, students should be able to read and comprehend a variety of literary and informational texts independently and proficiently.

English 3 Honors Pre IB **30263BHW**
Grade 10, 11 **1 unit**

Prerequisite:English 2 Honors or English 2 Honors Pre IB

Recommended: Grade of 80 or better in the previous English course

In this course, students gather relevant information from multiple print and multimedia sources. Students effectively assess the strengths and limitations of each source in terms of the task, purpose, and audience, integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and over-reliance on any one source and follow a standard format for citation. Students write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences. Students must initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners

about topics, texts and issues, building on others' ideas and expressing their own clearly and persuasively.

Students present information, findings, and supporting evidence to convey a clear and distinct perspective, such that listeners can follow the line of reasoning. Students ensure the organization, development, substance, and style of their presentation (written or oral) are appropriate to purpose and audience in a range of formal and informal tasks.

Students engage in Socratic Seminars where they seek deeper understanding of complex ideas in text through rigorously thoughtful dialogue. Students acquire and use accurately general academic and domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level. By the end of the course, students should be able to read and comprehend a variety of literary and informational texts independently and proficiently.

English 4 **302700CW**
Grade 12 **1 unit**
Prerequisite: English 3

In this course, students gather relevant information from multiple print and multimedia sources. Students effectively assess the strengths and limitations of each source in terms of the task, purpose, and audience, integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and overreliance on any one source and following a standard format for citation. Students write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences. Students must initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners about topics, texts and issues, building on others' ideas and expressing their own clearly and persuasively.

Students present information, findings, and supporting evidence to convey a clear and distinct perspective, such that listeners can follow the line of reasoning. Students ensure the organization, development, substance, and style of their presentation (written or oral) are appropriate to purpose and audience in a range of formal and informal tasks. Students acquire and use accurately general academic and domain- specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level.

By the end of the course, students should be able to read and comprehend a variety of literary and informational texts proficiently.

Advanced Placement English Language and Composition **307101AW**
Grade 11, 12 1 unit

Prerequisite: English 3 Honors or English 3

Requirements: AP Language and Composition Exam

Recommended: Grade of 80 or better in the previous English course

Students engage in rigorous study of British literature, including a thorough understanding of its themes and periods. This course enables students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively. Students write both informal and formal contexts to gain authority and learn to take risks in writing. As well as engaging in varied writing tasks, students become acquainted with a wide variety of prose styles from many disciplines and historical periods and gain understanding of the connections between writing and interpretive skill in reading.

Advanced Placement English Literature and Composition **307000AW**

Grade 11, 12 (RBH, LHS, PHS, WKH) **1 unit**

Prerequisite: English 3 Honors or English 3

Requirements: AP Literature and Composition Exam

Recommended: Grade of 80 or better in the previous English course

Students enrolled in these courses must demonstrate a high level of motivation and achievement in the prerequisite coursework. Students engage in rigorous study of 20th century British literature plus selections from world literature. Compositions focus on the analytical skills needed for the AP exam. Complementary reading (during the summer and school year) is required. The course meets the objective of a general English course at the college level. The College Board determines the course description; therefore, the content of this course must adhere to those requirements.

MATHEMATICS

Grade level recommendations for courses are based on the district's scope and sequence, however, schools make scheduling decisions in the best interest of each student.

In order to receive a South Carolina High School Diploma, students are required to earn at least four units in mathematics. Additionally, the Commission on Higher Education (CHE) requires a

minimum of four units in mathematics (including Algebra 1, Algebra 2, Geometry, and a fourth, higher-level mathematics unit) for applicants to four-year programs in South Carolina public colleges and universities.

To ensure a well-rounded mathematics curriculum, students are required to take courses in algebra, geometry and statistics. Knowledge of mathematics is needed by 21st Century =Graduates to be successful in most careers and/or professions. Students are encouraged to take at least one course in mathematics each year and more than the required four units. Students should pay special attention to course descriptions that recommend a minimum grade average in a prior course. Students not achieving this average are advised to take steps to improve their understanding of the prerequisite content before taking subsequent courses. Access to a graphing calculator outside the classroom is recommended for all high school mathematics courses..

The South Carolina End-of-Course Examination Program (EOCEP) includes an end-of-course assessment for mathematics. At the completion of Algebra 1 Honors or Algebra 1, students are required to take the state-developed Algebra 1 End-of-Course test. This test is the final exam for Algebra 1 Honors and Algebra 1.

Geometry with Statistics **412200CW**
Grades 9, 10 **1 unit**

Geometry with Statistics is a foundational high school course designed for Grade 9 students, building on their middle school mathematics experiences. It introduces essential concepts for post-secondary success, whether in further education or the workforce while fostering an appreciation for the beauty and practicality of mathematics.
This course emphasizes the development of mathematical knowledge and skills through visual representations, preparing students for more abstract algebraic concepts. Students enhance their reasoning, sensemaking abilities, and understanding of transformations, congruence, similarity, and coordinate geometry. The course also integrates statistics, enabling students to analyze, describe, and summarize data, and includes an introduction to probability, which improves decision-making by teaching the logic of uncertainty and randomness. Geometry with Statistics provides a strong foundation for advanced mathematical studies and real-world problem-solving.

Geometry with Statistics Honors **412200HW**
Grades 9, 10 **1 unit**

Geometry with Statistics is a foundational high school course designed for Grade 9 students, building on their middle school mathematics experiences. It introduces essential concepts for post-secondary success, whether in further education or the workforce while fostering an appreciation for the beauty and practicality of mathematics.

This course emphasizes the development of mathematical knowledge and skills through visual representations, preparing students for more abstract algebraic concepts. Students enhance their reasoning, sensemaking abilities, and understanding of transformations, congruence, similarity, and coordinate geometry. The course also integrates statistics, enabling students to analyze, describe, and summarize data, and includes an introduction to probability, which improves decision-making by teaching the logic of uncertainty and randomness. Geometry with Statistics provides a strong foundation for advanced mathematical studies and real-world problem-solving.

Algebra 1 **411400CW**
Grades 9, 10 **1 unit**
Prerequisite: Geometry with Statistics

Requirement: The South Carolina End-of-Course Examination Program requires students taking this course to take the Algebra 1 End-of-Course Test.

Algebra 1 lays the foundation for essential mathematical concepts crucial for students' future academic and career success. This course emphasizes the importance of algebra in everyday decision-making and its application in various careers, especially in scientific and technological fields. Students will explore functions—linear, quadratic, exponential, and absolute value—and learn how these functions model real-world situations.

Key topics include solving equations, understanding and applying algebraic properties, and converting between different forms of expressions. Graphing is a significant component, where students analyze graphs of equations and inequalities, explore transformations, and find intersections between functions. Additionally, students will develop statistical reasoning skills, learning how to represent and interpret data, and use models, particularly linear ones, to make predictions.

Algebra 1 Honors **411400HW**
Grade 9, 10 **1 unit**
Prerequisite: Geometry with Statistics

Requirement: The South Carolina End-of-Course Examination Program requires students taking this course to take the Algebra 1 End-of-Course Test.

Recommended: Grade of 80 or higher in previous math course

Algebra 1 lays the foundation for essential mathematical concepts crucial for students' future academic and career success. This course emphasizes the importance of algebra in everyday decision-making and its application in various careers, especially in scientific and

technological fields. Students will explore functions—linear, quadratic, exponential, and absolute value—and learn how these functions model real-world situations.

Key topics include solving equations, understanding and applying algebraic properties, and converting between different forms of expressions. Graphing is a significant component, where students analyze graphs of equations and inequalities, explore transformations, and find intersections between functions. Additionally, students will develop statistical reasoning skills, learning how to represent and interpret data, and use models, particularly linear ones, to make predictions.

Algebra 2 with Probability **411500CW**

Grades 9, 10, 11, 12 **1 unit**

Prerequisite: Geometry with Statistics, Algebra 1

Recommended: Grade of 75 or higher in Algebra 1

Algebra 2 with Probability is designed for students who have completed Geometry with Statistics and Algebra 1 and are ready to advance their mathematical understanding. This course deepens students' knowledge of various functions, including polynomial, rational, radical, exponential, and piecewise functions. Students will graphically investigate and compare these functions, analyze rates of change, and solve real-world problems at a more advanced conceptual level.

The course emphasizes the use of technology, such as graphing calculators or computer algebra systems, to enhance students' conceptual understanding. In addition to studying "parent functions," students will explore complex numbers, matrices, and probability. The course introduces the complex number system, uses matrices to organize and manipulate data, and continues the study of probability and statistical reasoning, helping students make informed decisions in a data-driven world.

Algebra 2 with Probability Honors **411500HW**

Grades 9, 10, 11, 12 **1 unit**

Prerequisite: Geometry with Statistics, Algebra 1

Recommended: Grade of 80 or higher in Algebra 1 Honors

Algebra 2 with Probability is designed for students who have completed Geometry with Statistics and Algebra 1 and are ready to advance their mathematical understanding. This course deepens students' knowledge of various functions, including polynomial, rational, radical, exponential,

and piecewise functions. Students will graphically investigate and compare these functions, analyze rates of change, and solve real-world problems at a more advanced conceptual level.

The course emphasizes the use of technology, such as graphing calculators or computer algebra systems, to enhance students' conceptual understanding. In addition to studying "parent functions," students will explore complex numbers, matrices, and probability. The course introduces the complex number system, uses matrices to organize and manipulate data, and continues the study of probability and statistical reasoning, helping students make informed decisions in a data-driven world.

Reasoning in Mathematics **411800CW**
Grades 11, 12 **1 unit**
Prerequisite: Geometry with Statistics, Algebra 1

Reasoning in Mathematics engages students in relevant problems that focus on how mathematics and statistics inform decision-making. It prepares students for post-secondary options with instruction that focuses on modeling real-world situations. This course emphasizes statistics, quantitative reasoning, modeling, and financial applications and features a variety of mathematical and statistical tools useful for decision-making. Students will make sense of authentic problems and persevere in solving them. They will reason abstractly and quantitatively while communicating mathematics to others. Students will use appropriate tools, including technology, to model mathematics. Students will use structure and regularity of reasoning to describe mathematical situations and solve problems.

Advanced Placement Statistics **417100AW**
Grades 10, 11, 12 **1 unit**

Prerequisite: Algebra 2
Requirement: Advanced Placement Statistics Exam, Statistics Extension Honors linked course, summer reading/assignment

This course is appropriate for students pursuing a degree in mathematics, engineering, psychology, sociology, health science or business. Four basic concepts are studied: exploring data, planning a statistical study, anticipating patterns using probability and simulations, and drawing statistical inferences. The course is equivalent to an introductory non-calculus college course in statistics. The College Board determines the course description; therefore, the content of this course must adhere to those requirements. This course is linked to a required half-unit-honors course.

AP Statistics Preparation Lab Honors (LHS, WKHS, PHS, GHS) **314900HH**
314900HW

Grades 10, 11, 12 **½ unit, 1 unit**

This course is a required link to Advanced Placement Statistics and is only open to those students enrolled in that course.

Applications and Modeling **411900CW**

Grades 11, 12 **1 unit**

Prerequisite: Geometry with Statistics, Algebra 1

Applications and Modeling builds on concepts from Geometry with Statistics and Algebra 1. The course focuses on using these concepts to analyze data, make predictions, and address real-world problems. The course engages students in practical applications of mathematics, statistics, and modeling, emphasizing financial literacy and career-based decision-making. Students explore financial planning, 3D design, statistical studies, and function creation, using real-world measurements and technology to interpret and explain results in context.

Statistical Modeling **412000CW**

Grades 11, 12 **1 unit**

Prerequisite: Geometry with Statistics, Algebra 1, Algebra 2 with Probability

Statistical Modeling is a course designed to deepen students' understanding of statistics. The course focuses on the statistical method of inquiry and the use of simulations. Students will learn to formulate statistical questions, design data collection plans, analyze data using graphical and numerical methods, and interpret results. The course emphasizes the application of process standards through a statistical perspective, with instruction and assessment supported by simulations and technology.

Pre-Calculus **413100CW**

Grades 11, 12 **1 unit**

Prerequisite: Geometry with Statistics, Algebra 1, Algebra 2 with Probability

Recommended: Grade of 75 or higher in Algebra 2

Pre-Calculus prepares students to study calculus in high school or at a technical college or four-year college or university. This course builds on students' previous mathematical

knowledge, preparing them for further studies. The course covers piecewise, rational, radical, exponential, logarithmic, and trigonometric functions, as well as polar coordinates, conic sections, vectors, and matrices. Emphasizing mathematical modeling, students learn to apply mathematics to real-world problems using various technological tools, including graphing calculators, spreadsheets, and computer algebra systems. The course focuses on creating and analyzing mathematical representations to solve complex problems relevant to the workplace and everyday life.

Pre-Calculus Honors **413100HW**
Grades 11, 12 **1 unit**

Prerequisite: Geometry with Statistics, Algebra 1, Algebra 2 with Probability
Recommended: Grade of 80 or higher in Algebra 2 Honors

Pre-Calculus Honors prepares students to study calculus and other advanced mathematics courses. It is intended for those students who have demonstrated exceptional mathematics abilities and desire a rigorous comprehensive course of study. The course builds on students' previous mathematical knowledge, preparing them for further studies. The course covers piecewise, rational, radical, exponential, logarithmic, and trigonometric functions, as well as polar coordinates, conic sections, vectors, and matrices. Emphasizing mathematical modeling, students learn to apply mathematics to real-world problems using various technological tools, including graphing calculators, spreadsheets, and computer algebra systems. The course focuses on creating and analyzing mathematical representations to solve complex problems relevant to the workplace and everyday life.

Advanced Placement Calculus AB **417000AW**
Grade 12 **1 unit**

Prerequisites: Pre-Calculus
Requirement: Advanced Placement Calculus AB Exam, Calculus AB Extension Honors linked course, summer reading/assignment
Recommended: Grade of 75 or higher in Pre-Calculus Honors or Pre-Calculus, a score of 55/550 on the math portion of the PSAT/SAT

This course includes a study of elementary functions, differential calculus and integral calculus. The College Board determines the course description; therefore, the content of this course must

adhere to those requirements. Students must be prepared to spend an average of one hour per night on homework to be successful. This course is linked to a required half-unit honors course.

AP Calculus AB Preparation Lab Honors **314901HH**
Grade 12 **½ unit**

This course is a required link to Advanced Placement Calculus AB and is only open to those students enrolled in that course.

Note: This is not a requirement for students who attend RBHS.

Advanced Placement Calculus BC **417200AW**
(LHS, RBHS, WKHS)
Grade 12 **1 unit**

Prerequisites: Pre-Calculus Honors
Requirement: Advanced Placement Calculus BC Exam, summer reading/assignment
Recommended: Grade of 80 or higher in Pre-Calculus Honors, a score of 60/600 on the math portion of the PSAT/SAT

This course is intended for students who have a thorough knowledge of college preparatory mathematics. The syllabus includes a study of elementary functions, differential calculus, integral calculus, series and sequences, and includes calculus topics generally taught in two semesters at the college level. The College Board determines the course description; therefore, the content of this course must adhere to those requirements. Students must be prepared to spend an average of one hour per night on homework to be successful. This course is linked to Advanced Placement Calculus AB.

SCIENCE

Grade level recommendations for courses are based on the district's scope and sequence, however, schools make scheduling decisions in the best interest of each student.

The Commission on Higher Education (CHE) requires THREE UNITS OF LABORATORY SCIENCE: Two units must be taken in two different fields of the physical, earth, or life sciences and selected from among biology, chemistry, physics, or earth science. The third unit may be from the same field as one of the first two units (biology, chemistry, physics, or earth science) or from any laboratory science for which biology,

chemistry, physics and/or earth science is a prerequisite. Courses in general or introductory science for which one of these four units is not a prerequisite will not meet this requirement. It's strongly recommended that students desiring to pursue careers in science, mathematics, engineering or technology take one course in all four fields: biology, chemistry, physics, and earth science.

Earth Science **326501CW**
Grade 9 **1 unit CHE lab credit**

Recommended: Freshman Only (Upperclassmen can take Bio 2, Marine Science, or Earth Science HN level)

This course is designed to meet the SC Earth Science Academic Standards related to geology, paleontology, biogeochemical cycles, weather and climate, and astronomy. The overall approach shows how these systems function and interrelate with each other. Students examine the nature of Earth's composition, processes and place in the universe in order to tie in their relevance to local and global issues.

Earth Science HN **326500HW**
Grades 10–12 **1 unit CHE lab credit**

Recommended: No freshman (Honors level freshman = Biology 1 HN)

In Honors Earth Science, students learn deeply about concepts related to earth science. Students will engage in real data and engage in authentic research as they develop an understanding of these concepts through an inquiry-based approach. Students will develop the skills necessary to question, explore, analyze, and evaluate the world in which we live within the scope of the nature of science. Using a variety of technological tools students will be armed and ready for real world problems that they will be able to creatively solve. Through cooperation and argumentation students will develop their own beliefs of the scientific world.

Biology 1 **322100CW**
Grade 10-12 **1 unit CHE lab credit**

Requirement: The S.C. End-of-Course Examination Program requires students taking this course to take the Biology 1 End- of-Course Test.

This course covers the major concept areas of biological science including: the cell; molecular basis of heredity; biological change; diversity in living systems; and environmental

relationships. The student develops an understanding and appreciation of all living things and their critical relationship with one another. (All of the Biology South Carolina Academic Standards and Performance Indicators for Science are addressed.)

Biology 1 Honors **322100HW**
Grade 9-12 **1 unit CHE lab credit**

Requirement: The S.C. End-of-Course Examination Program requires students taking this course to take the Biology 1 End- of-Course Test.

Within the framework of development from simplest to the most complex, the unique structures, processes, and organization of life forms are treated in-depth through the study of cells; genetics; biological change and diversity of life; matter, energy, and organization in living systems; and the interrelationship between organisms and the environment. This course serves as a foundation for the student interested in pursuing AP Biology. Extensive laboratory investigations are an integral part of this course. Independent and group investigations and research are conducted throughout the course. (All of the Biology South Carolina Academic Standards and Performance Indicators for Science are addressed.)

Biology 1 Honors Pre IB **32210BHW**
Grade 9 **1 unit CHE lab credit**

Requirement: The S.C. End-of-Course Examination Program requires students taking this course to take the Biology 1 End- of-Course Test.

Within the framework of development from simplest to the most complex, the unique structures, processes, and organization of life forms are treated in-depth through the study of cells; genetics; biological change and diversity of life; matter, energy, and organization in living systems; and the interrelationship between organisms and the environment. This course serves as a foundation for the student interested in pursuing AP Biology. Extensive laboratory investigations are an integral part of this course. Independent and group investigations and research are conducted throughout the course. (All of the Biology South Carolina Academic Standards and Performance Indicators for Science are addressed.)

Biology 2 **322200CW**
Grades 11, 12 (RBHS, WKHS, LHS) **1 unit CHE lab credit**

Prerequisite: Biology 1

This course is designed to prepare students for many college- level Biology courses. It is taught in a hands-on, real-world manner. The concepts of this course include: the environment and

current environmental issues, animal behavior, plants, evolution, and classification with a specific focus on each of the kingdoms. Biology 2 also includes animal anatomy and physiology through the use of dissections.

Advanced Placement Biology **327200AW**
Grades 11–12 (LHS) **1 unit CHE lab credit**

Prerequisite: Honors Biology 1

Requirement: AP Biology Exam, Biology Extension Honors linked course

Recommended: Chemistry 1 (completed), a 55/550 on the verbal section of the PSAT/SAT or 25 on the PLAN/ACT verbal

This course is a second year of intensive biology designed to prepare students to take the Advanced Placement Biology Examination. The course meets the objective of a general biology course at the college level. The College Board determines the course description (including dissection); therefore, the content of this course must adhere to those requirements. This course is linked to a required one-unit honors course.

AP Biology Preparation Lab Honors **328901HW**
Grades 11–12 (LHS) **1 elective credit**

This course is a required link to Advanced Placement Biology and is only open to those students enrolled in that course.

Marine Science **322500CW**
Grades 11, 12 **1 unit CHE lab**

Prerequisite: Biology 1

This course is for students with an interest in science and/ or may be considering a career in environmental or marine science. Lab, classroom work and independent research are required for an in-depth study of:-marine and coastal ecosystems; plant and animal life; and ecological principles.

The course integrates current events and topics in marine science with textbook information. A required dissection of a marine organism enhances the study of these unique animals.

Environmental Science **326100CW**
Grades 10, 11, 12 **1 unit CHE lab**

Environmental Science is an advanced science course aligned with the South Carolina College- and Career-Ready Science Standards 2021. Using the Science and Engineering Practices, students apply their understanding of biology and earth and space science content while making connections through the Crosscutting Concepts. The expectation is that through their Environmental Science coursework, students build upon their foundational knowledge developed in previous courses to deepen their understanding of the content.

Advanced Placement Environmental Science **327700AW**
Grades 11, 12 (RBHS, WKHS, LHS) **1 unit CHE lab**
credit

Prerequisite: Biology 1, Chemistry 1 Required: AP Environmental Science Exam; Environmental Science Extension Honors linked course

This course is designed to be the equivalent of a one-semester introductory college course in environmental science. The goal of the course is to provide students with scientific principle, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems and to examine alternative solutions for resolving and/or preventing them. The College Board determines the course description; therefore, the content of this course must adhere to those requirements. This course is linked to an extension honors course.

Anatomy and Physiology **326300CW**
Grades 11, 12 (LHS, PHS, RBHS, WKHS) **1 unit CHE lab**
credit

Prerequisite: Biology 1

Recommended: Grade of 80 or better in Biology 1 (A&P requires a lot of studying)

Anatomy and Physiology is a course designed to familiarize students with the structure and function of the human body. This course is designed to provide a broad examination of the anatomy and physiology of the human body. A systematic analysis of the relationships of structure and function is conducted through lectures, demonstrations, and simulations. Laboratory exercises, including dissections, comprise a portion of this course. This course is excellent preparation for students interested in a medical career or who have an interest in the basic inner workings of the human body.

Anatomy and Physiology Honors **326300HW**
Grades 11, 12 (GHS, LHS, PHS, RBHS) **1 unit CHE lab**

Prerequisite: Biology 1 HN

Recommended: Grade of 80 or better in Biology 1 HN

Anatomy and Physiology is a course designed to familiarize students with the structure and function of the human body. This rigorous course is designed to provide a detailed examination of the anatomy and physiology of the human body. A systematic analysis of the relationships of structure and function is conducted through lectures, demonstrations, and simulations. Laboratory exercises, including dissections, comprise a major portion of this course. This course is excellent preparation for students interested in a future medical career.

Forensic Science **324500CW**
Grades 11, 12 **1 unit CHE lab**

Prerequisite: Biology 1

Forensic Science is an advanced science course aligned with the South Carolina College- and Career-Ready Science Standards 2021. Using the Science and Engineering Practices, Forensic Science students apply their understanding of biology and chemistry content while making connections through the Crosscutting Concepts. The expectation is that through their Forensic Science coursework, students build upon their foundational knowledge developed in previous courses to deepen their understanding of the content.

Chemistry 1 **323100CW**
Grades 11, 12 **1 unit CHE lab**

Prerequisite: Biology 1, Algebra 1

Recommended: B or Better in Algebra 1

This course deals with the nature and structure of matter, the periodic system, chemical reactions, balancing equations, mathematics of chemistry, gases, solutions and solubility, calorimetry and acid-base relationships. Emphasis is placed on problem solving. (All of the Chemistry South Carolina Academic Standards and Performance Indicators for Science are addressed.)

Chemistry 1 Honors **323100HW**
Grades 10, 11, 12 **1 unit CHE lab**

Prerequisite: Biology 1, Algebra 1

Recommended: B or Better in Algebra 1 HN

Recommended: Grade of 80 or better in Algebra courses. This course is an in-depth study of the chemical principles described in Chemistry 1 with emphasis placed on chemical calculations. (All of the Chemistry South Carolina Academic Standards and Performance Indicators for Science are addressed.)

Advanced Placement Chemistry **327300AW**
Grades 11, 12 (LHS, RBHS, WKHS) **1 unit CHE lab**

Prerequisite: Chemistry 1, Algebra 2

Requirement: AP Chemistry Exam, Chemistry-Extension Honors linked course

Recommended: Grade of 80 or better in Algebra 2 and Chemistry 1, a 60/600 on the math section of the PSAT/SAT or 27 on the ACT math

This course is a second year of intensive chemistry designed to prepare the student to take the Advanced Placement Chemistry Examination. The course meets the objective of a general chemistry course at the college level. The College Board determines the course description; therefore, the content of this course must adhere to those requirements. This course is linked to a required one-unit honors course.

AP Chemistry Preparation Lab Honors **328900HW**
Grades 11, 12 (LHS, RBHS, WKHS) **1 Unit elective credit**

This course is linked to Advanced Placement Chemistry and is open only to students enrolled in that course.

Physics **324100CW**
Grades 11, 12 (GHS, LHS, RBHS, WKHS) **1 unit CHE lab**

Prerequisite: Biology 1, Algebra 2, Geometry

Recommended: Grade of 80 or better in Algebra 2

This is a mathematical science course covering the classical and modern topics in physics. Topics include measurement, mechanics, wave motion, sound, light, optics, color, thermodynamics, electricity and electromagnetism, and relativity. (All of the Physics South Carolina Academic Standards and Performance Indicators for Science are addressed.)

Honors Physics **324100HW**
Grades 11, 12 (LHS, PHS, RBHS) **1 unit CHE lab**

Prerequisite: Biology 1, Algebra 2 HN, Geometry HN

Recommended: Grade of 80 or better in Algebra 2 HN, Pre-Calculus (completed or concurrent)

This is a mathematical science course covering the classical and modern topics in physics. Topics include measurement, mechanics, wave motion, sound, light, optics, color, thermodynamics, electricity and electromagnetism, and relativity. Topics are taught at a level that prepares students for AP Physics C courses. (All of the Physics South Carolina Academic Standards and Performance Indicators for Science are addressed.)

Advanced Placement Physics 1 **328200AW**
Grades 11-12 (GHS, LHS, RBHS, WKHS) **1 unit CHE lab**

Prerequisite: Pre-Calculus (completed or concurrent) Requirement: AP Physics 1 Exam

AP Physics 1 is the equivalent of a first-semester college course in algebra-based physics. It is designed to enable AP students to develop a deep understanding of the content and to focus on applying their knowledge through inquiry labs. The full course also allows time for inclusion of physics content specified by state standards. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It also introduces electric circuits.

SOCIAL STUDIES

Grade level recommendations for courses are based on the district's scope and sequence, however, schools make scheduling decisions in the best interest of each student.

To receive a South Carolina High School Diploma students must earn three units in Social Studies. U.S. History (1 unit), United States Government (1/2 unit), and Economics and Personal Finance (1/2 unit) are required courses. The third unit must be a course designated as a social studies elective.

All social studies courses are aligned with the South Carolina Social Studies Academic Standards. The academic standards are grade-specific and call for the integration of content standards (what students are expected to know in each area) and process standards (what skills students are expected to develop).

United States History and the Constitution **332000CW**
Grade 11 **1 unit**

Requirement: The S.C. End-of-Course Examination program requires students taking this course to take the U.S. History End-of-Course Test.

In the United States History and the Constitution course, students will employ the skills of a historian to explore the foundation of the American Republic and the expansion and disunion of the United States. Students will investigate the impact of American industrialism and capitalism, including being drawn into world wars, on American politics and geopolitics. Through the lens of the Cold War, students will study the contemporary era including the age of technological development, increased civic participation, and political party realignment.

Advanced Placement United States History **337200AW**
Grade 11 **1 unit**

Requirements: AP U.S. History Exam, U.S. History Extension Honors linked course, the S.C. End-of-Course Examination program requires students taking this course to take the U.S. History End-of-Course Test, summer reading/assignment

Recommended: A score of 58/580 on the verbal section of the PSAT/SAT or completed English 2 Honors with a grade of 80 or higher

This course provides students with a learning experience equivalent to that obtained in college introductory United States history courses. Students examine major historical developments from the age of discovery to the present. This course is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with problems and materials in United States history. Emphasis is placed on analyzing historical data, synthesizing evidence and evaluating the ideas of others as students develop the ability to express themselves with clarity and precision when writing essays. The College Board determines the course description; therefore, the content of this course must adhere to those requirements. This course is linked to a required one-unit honors course.

Advanced Placement U.S. History Preparation Lab Honors **336900HW**
(LHS, GHS, WKHS, PHS) **1 unit**
Grade 11

This course is a required link to Advanced Placement U.S. History and is only open to those students enrolled in that course.

United States Government **333001CH**
Grades 11, 12 **½ unit**

Students study United States Government beginning with the historical and philosophical principles that led to the development of the American constitutional democracy and how those fundamental ideas have continued to sustain America's democratic society. Students will learn how various powers are granted and distributed among the different branches and levels of government, and how checks and balances prevent one branch from overpowering the others. Additionally, students will investigate how American political values are formed and how government functions through individual participation and policy making. In order to continue to thrive, a strong democracy relies on active participation by informed individuals dedicated to upholding the rule of law and individual rights. Overall, the study of the United States Government provides a basis for students to develop the skills necessary to live and thrive in America's constitutional democracy and participate in society as active and informed citizens.

Advanced Placement U.S. Government and Politics **337300AW**
(GHS, LHS, RBHS, WKHS)
Grades 11, 12 **1 unit**

Requirement: AP American Government Exam, summer reading/assignment

Recommended: A score of 58/580 on the verbal section of the PSAT/SAT or completed a previous Honors English course with a grade of 80 or higher

This course provides students with a comprehensive critical perspective on American government and politics. Students develop analytic perspectives for interpreting, understanding and explaining political events in this country. The course provides students with a learning experience equivalent to that obtained in most college introductory U.S. government and politics courses. The College Board determines the course description; therefore, the content of this course must adhere to those requirements. This course is linked to a required half- unit honors course.

Economics and Personal Finance **330800CH**
Grades 11, 12 **½ unit**

Students study economics and personal finance beginning with how humans address the fundamental problem of scarcity by making choices based on the existence of limited resources. Using the skills of the economist, students will learn how rational decisions are made using marginal analysis, and that all choices are met with consequences. Students will investigate how

personal financial decisions related to careers, spending, and short- and long-term goal setting impact one's standard of living and long-term financial well-being. Traditionally, the field of economics is divided into two categories: microeconomics and macroeconomics. In the domain of microeconomics, students will survey the impact of demand, supply, various market structures, and government policies have on market prices for goods, services, and wages for workers. Inquiry into macroeconomics involves observing trends in the economy at large and the policies that are undertaken to promote the economic well-being of a society. Holistically, the study of economics and personal finance provides a basis for students to develop the skills necessary to live and thrive financially in the 21st century, and participate in society as active and informed decision-makers.

Advanced Placement Microeconomics **337500AW**
(LHS, RBHS)
Grades 11, 12 **1 unit**

Prerequisites: Algebra 2

Requirement: AP Microeconomics Exam, summer reading/ assignment

This course is designed to provide a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the larger economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and the role of government in promoting greater efficiency and equity in the economy. The College Board determines the course description; therefore, the content of this course must adhere to those requirements.

Advanced Placement Macroeconomics **337400AW**
(GHS, LHS, RBHS, WKHS) **1 unit**
Grades 11, 12

Prerequisite: Algebra 2

Requirement: AP Macroeconomics Exam, summer reading/ assignment

This course is designed to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. This course places emphasis on the study of national income and price determination and also develops familiarity with economic performance measures, economic growth and international economics. The College Board determines the course description; therefore, the content of this course must adhere to those requirements.

Advanced Placement European History **337600AW**
(LHS, WKHS)
Grades 10, 11, 12 **1 unit**

Requirement: AP European History Exam, European History Extension Honors linked course

Recommended: A score of 58/580 on the verbal section of the PSAT/SAT or completed a previous Honors English course with a grade of 80 or higher

This course provides students with a learning experience equivalent to that obtained in college introductory European history courses. This course focuses on the fundamental role of cultural, economic, political and social developments in European history from 1450 to the present. Emphasis is placed on analysis of historical evidence and written expression of historical understanding. The College Board determines the course description; therefore, the content of this course must adhere to those requirements. This course is linked to a required half-unit-honors course and is designated as a social studies elective credit.

Human Geography **331000CW**
(GHS, LHS, PHS)
Grades 9, 10, 11, 12 **1 unit**
Grade 9 (RBHS)

This course introduces students to human geography beginning with the use of maps and other geographic representations, geospatial technologies, and spatial thinking to understand and communicate geographic information. Students will examine patterns and processes of how human characteristics and activities vary across Earth's surface and how humans understand, use, and alter the surface of Earth. Conceptual in nature rather than place specific, this course is organized systematically around the topics of population and migration geography, economic geography, cultural geography, political geography, and urban geography. Students will also learn to employ spatial concepts and landscape analysis to examine human patterns and processes and their environmental consequences. This course is designated as a social studies elective credit.

Advanced Placement Human Geography **337900AW**
(GHS, LHS, PHS, RBHS) **1 unit**
Grades 9, 10, 11, 12

Requirement: AP Human Geography Exam

This course introduces students to the systematic study of patterns and processes that have shaped human understanding, use and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. The College Board determines the course description; therefore, the content of this course must adhere to those requirements. This course is designated as a social studies elective credit.

World History **336000CW**
Grades 9, 10, 11, 12 (LHS) **1 unit**
Grade 9 (WKHS), Grade 10 (RBHS)

This course is designed as a study of the history of the Modern World in grade ten, beginning with the time period of 1300 to present. Students will begin by learning about the emergence of the Modern World from 1300–1500, global affairs and interactions (1450– 1815), the rise of the new governments and competition in the global community (1815–1918), the emergence of new world powers (1885–1950), and the world from World War II to present day (1933–present). Students will learn all Modern World History through the lens of inquiry in order to study the world that trade created, which led to the influence of interactions of various changes to culture, governments, ideas, innovation, people, religion, and revolution with an intent to create a citizen who has a global perspective. This course is designated as a social studies elective credit.

Advanced Placement World History **337701AW**
(LHS, GHS, RBHS, WKHS) **1 unit**
Grades 9, 10, 11, 12

Requirement: AP World History Exam

In AP World History: Modern, students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time.

The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. College Course Equivalent AP

World History: Modern is designed to be the equivalent of an introductory college or university survey of modern world history.

There are no prerequisites for AP World History. Students should be able to read a college-level textbook and write grammatically correct, complete sentences and be able to develop a historically defensible argument. Therefore it is recommended that all students have previously taken English 1 Honors with an 80 or above.

Psychology **334001CH**
Grades 11, 12 **½ unit**

This course focuses on the factors that influence the behavior of individuals. By learning these principles and their applications, students develop a better understanding of themselves and others. This course is designated as a social studies .5 elective credit.

Advanced Placement Psychology **437100AW**
(LHS, GHS, RBHS, WKHS)
Grades 11, 12 **1 unit**
Requirements: AP Psychology Exam

Recommended: A score of 58/580 on the verbal section of the PSAT/SAT or completed a previous Honors English course with a grade of 80 or higher.

This course introduces the systematic and scientific study of the behavior and mental processes of human behavior and mental processes of human beings and other animals. It includes a consideration of the psychological facts, principles and phenomena associated with each of the major subfields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice. The College Board determines the course description; therefore, the content of this course must adhere to those requirements. This course is designated as a social studies elective credit.

Sociology **334501CH**
Grades 11, 12 **½ unit**

This course provides an analysis of human relationships in modern culture through an examination of institutions, traditions, customs and trends. This course is designated as a social studies .5 elective credit.

WORLD LANGUAGES

Students planning to enter a four-year, state-supported college in South Carolina are required to complete at least two years of the same world language. Some colleges now require three units of the same language. For returning high school students and students from other districts; level one courses are open to all interested students. It is recommended that students have a strong foundation in English/language arts and appropriate study habits in order to be successful in a world language. Beginning at level three, students may enroll in honors-level courses. After which, students may enroll in Level four and five honors or Advanced Placement. Students are urged to pay special attention to course descriptions that recommend a minimum grade or performance level in a prerequisite course. Students not achieving at or above this minimum level have historically had difficulty achieving a satisfactory level in subsequent courses. For more information about proficiency and Lexington One's World Language courses and program, visit: www.lexington1.net, click on "quick links" and then scroll down to World Languages. Or you can visit: https://lexoneworldlanguages.weebly.com/

French 1 **361100CW**
Grades 9, 10, 11, 12 **1 unit**

This course introduces the structure and phonetic system of the French language. It covers the development of communication skills in written and spoken language and the cultures and civilizations of France and other French-speaking countries.

French 2 **361200CW**
Grades 9, 10, 11, 12 **1 unit**

This course expands on the skills introduced in French 1 and emphasizes proficiency and cultural comparisons.

French 3 (LHS, RBHS, WKHS) **361300CW**
Grades 10, 10, 11, 12 **1 unit**

This course is a review and expansion of structure, vocabulary and usage of the French language with emphasis on authentic communication. Culture, civilization and comparisons are important aspects of the course.

French 3 Honors **361300HW**
Grades 10, 11, 12 **1 unit**

Recommended: Grade of 80 or better in French 2

This course is a review and expansion of structure, vocabulary, usage and culture. Students are expected to use French extensively for communication in the class, with creative projects and activities to supplement routine class materials.

French 4 Honors (GHS, LHS, RBHS, WKHS) **361400HW**
Grades 10, 11, 12 **1 unit**

Recommended: Grade of 80 or better in French 3

This course is an advanced study of the French language and culture emphasizing comprehension and communication of current topics as well as literature and civilization. Students improve fluency and accuracy while engaging in creative and cooperative projects in the classroom and in the language community.

French 5 Honors (GHS, LHS, RBHS, WKHS) **361500HW**
Grades 11, 12 **1 unit**

Recommended: Grade of 80 or better in French 4

This advanced course extends and expands skills already developed, emphasizing extended conversation, reading and composition. Students also begin a more serious study of French history and literature.

AP French **367100AW**
Grades 11, 12 **1 unit**

Prerequisite: Proficiency at or above 14, recommended for 11th and 12th grade

The AP French Language and Culture course takes a holistic approach to language proficiency and recognizes the complex interrelatedness of comprehension and comprehensibility, vocabulary usage, language control, communication strategies, and cultural awareness. Students should learn language structures in context and use them to convey meaning. The AP French Language and Culture course strives to promote both fluency and accuracy in language use and not to overemphasize grammatical accuracy at the expense of communication. In order to best

facilitate the study of language and culture, the course is taught in the target language. The AP French Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts**.**

German 1 **362100CW**
Grades 9, 10, 11, 12 **1 unit**

This course introduces the phonetic system and structure of the German language. Emphasis is on development of communication skills. The cultures of German-speaking countries are studied.

German 2 **362200CW**
Grades 9, 10, 11, 12 **1 unit**

This course expands vocabulary and structure with continued emphasis on communication skills.

German 3 (LHS, RBHS, WKHS) **362300CW**
Grades 10, 11, 12 **1 unit**

This course is a review and expansion of structure, vocabulary and usage of the German language with emphasis on authentic communication. Culture and civilization are also important facets of the course.

German 3 Honors **362300HW**
Grades 10, 11, 12 **1 unit**

Recommended: Grade of 80 or better in German 2

This course is an expansion of vocabulary and review of grammar and usage. Emphasis is on reading both current and classical authentic texts, comprehending the spoken language, conversing in German and writing with increased proficiency.

German 4 Honors **362400HW**
Grades 11, 12 **1 unit**

Recommended: Grade of 80 or better in German 3

This course is an advanced study of German with an emphasis on comprehension and communication about current topics, literature and culture. Students work to achieve better oral and written proficiency.

German 5 Honors **362500HW**
Grades 11, 12 **1 unit**

Recommended: Grade of 80 or better in German 4 Honors

This advanced communication and culture course extends and expands skills developed in German 4 and emphasizes extended conversation, reading and composition.

AP German (LHS, RBHS, WKHS) **367300AW**
Grades 11, 12 **1 unit**

Prerequisite: Proficiency at or above 14, recommended for 11th and 12th grade

The AP German Language and Culture course strives to promote both fluency and accuracy in language use. In order to best facilitate the study of language and culture, the course is taught in the target language. The AP German Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of products, both tangible (e.g., tools, books, music) and intangible (e.g., laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions that underlie both practices and products).

Latin 3 (RBHS, WKHS) **363300CW**
Grades 9, 10, 11, 12 **1 unit**

This course reviews and expands on the structure, vocabulary, and usage of Latin covered in the first two courses with an emphasis on interpretive skills. Culture and civilization are important aspects of the course.

Latin 3 Honors (LHS, RBHS, WKHS) **363300HW**
Grades 10, 11, 12 **1 unit**

Recommended: Grade of 80 or better in Latin 2

This course mainly emphasizes reading in Latin from various authors. Students develop reading skills taught in the previous two courses and complete their study of advanced grammatical structures. Students also research various phases of Roman civilization and history.

Latin 4 Honors (LHS, RBHS, WKHS) **363400HW**

Grades 10, 11, 12 **1 unit**

Recommended: Grade of 80 or better in Latin 3 Honors

This course is an advanced course in Latin with an emphasis on reading authentic Latin text. Students read selections from Julius Caesar's De Bello Gallico, the tale of Jason and the Argonauts, and a variety of other golden and silver Latin literature. Students also continue their study of mythology, Roman history, and culture.

Advanced Placement (LHS, RBHS) **367400AW**
Latin Vergil Grades 11, 12 **1 unit**

Requirement: AP Latin Exam, AP Latin Extension Honors linked course,

Recommended: Grade of 80 or better in Latin 3

This course prepares students to read, understand, analyze, scan and interpret lines of Vergil. College Board determines the syllabus for the course; therefore, the content of the course may not be adjusted. Students take the AP examination in the Latin language. This course is linked to a required half-unit honors course.

AP Latin Preparation Lab Honors **369900HH**

Grades 11–12 **½ unit**

This course is a required link to AP Latin 4 and is only open to students enrolled in that course.

Spanish 1 for Heritage Speakers **365103CW**
Grades 9,10,11,12 **1 unit**

This course is an expansion of communication skills in students' heritage or native language, emphasizing reading and composition. This course also develops multicultural competence through studying and experiencing a variety of hispanic cultures.

Spanish 1 **365100CW**
Grades 9, 10, 11, 12 **1 unit**

This course introduces the structure and phonetic system of the Spanish language with emphasis on oral proficiency and writing skills. The cultures of Spain and Latin America are studied.

Spanish 2 **365200CW**
Grades 9, 10, 11, 12 **1 unit**

This course expands and continues the skills introduced in Spanish 1 with continued emphasis on oral and written proficiency.

Spanish 3 (LHS, RBHS, WKHS) **365300CW**
Grades 10, 11, 12 **1 unit**

This course reviews and expands on the structure, vocabulary and usage of the Spanish language, emphasizing authentic communication in the language. Students also study Spanish literature, culture and civilization.

Spanish 3 Honors **365300HW**
Grades 10, 11, 12 **1 unit**
Recommended: Grade of 80 or better in Spanish 2

This course is a continued expansion of communication skills and cultural comparisons. Students are expected to use Spanish extensively in the classroom and engage in creative, meaningful projects and activities

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Spanish 4 Honors **365400HW**
Grades 11, 12 **1 unit**
Recommended: Grade of 80 or better in Spanish 3

This advanced Spanish language course emphasizes speaking and oral comprehension of current topics. Students also study the structure of the Spanish language, development of writing skills and expanded reading comprehension.

Spanish 5 Honors (GHS, LHS, PHS, RBHS, WKHS) **365500HW**
Grades 11, 12 **1 unit**
Recommended: Grade of 80 or better in Spanish 4

This advanced communication and culture course extends and expands the skills developed in Spanish 4, emphasizing extended conversation, reading and composition. Students complete a

major project.

Spanish 3 Honors Immersion (GHS, LHS, WKHS) **365302HW**
1 unit

This advanced communication and culture course extends and expands the skills developed in Spanish 2, emphasizing extended conversation, reading and composition. Students complete a major project.

Spanish 4 Honors Immersion (GHS, LHS, WKHS) **365402HW**
1 unit

This advanced communication and culture course extends and expands the skills developed in Spanish 3, emphasizing extended conversation, reading and composition. Students complete a major project.

Spanish 5 Honors Immersion (GHS, LHS, WKHS) **365502HW**
1 unit

This advanced communication and culture course extends and expands the skills developed in Spanish 4, emphasizing extended conversation, reading and composition. Students complete a major project.

Spanish – AP Language (GHS, LHS, PHS, RBHS, WKHS) **367500AW**
Spanish – AP Literature **367500AW**
Grades 11, 12 **1 unit**
Prerequisite: Proficiency at or above 14, recommended for 11th and 12th grade

AP Spanish Language is a college-level course. The course is conducted in Spanish and students are expected to communicate in Spanish at all times. Students have the opportunity to demonstrate proficiency by engaging in daily activities that require the three modes of communication (Interpersonal, Interpretive, and Presentational). Students will use a variety of authentic resources and materials to hone their speaking, listening, reading and writing skills. Students will take the AP Spanish Language and Culture exam at the end of this course.

Immersion Bridge to (LHS, RBHS, WKHS) **369908HW**
College and Career **1 unit**
369907HH
½ unit

This advanced communication and culture course extends and expands the skills developed in world languages, emphasizing extended conversation, reading and composition. Students complete a major project.

FINE ARTS

Art 1 **350103CW**
Grades 9, 10, 11, 12 **1 unit**

This entry-level, survey-style course provides students with: foundational knowledge of various art forms; basic art concepts, terminology and techniques; tools and materials; cultural literacy; art history; and art career information. Hands-on learning activities are undertaken in drawing, printmaking, painting, ceramics and sculpture. Class critiques, written tests and written reports are required.

Art 2 **350206CW**
Grades 9, 10, 11, 12 **1 unit**

Prerequisite: Art 1 or approved portfolio

This advanced studio art course addresses a variety of drawing, printmaking and painting techniques in a variety of art styles and media. It also introduces advanced color theory and some cultural literacy, art history and career information. Students develop a portfolio and complete weekly sketchbook assignments. They also must participate in class critiques, take written tests, give reports and participate in select competitive exhibits.

Art 3 Honors (LHS, PHS, RBHS) **350305HW**
Grades 10, 11, 12 **1 unit**

Prerequisite: Art 2 or approved portfolio

In this advanced studio art course, students produce creative, sophisticated and well-crafted artwork in up to two of the following 2-D art forms: drawing, printmaking, painting, photography and/or graphic design (computer-generated imagery). Art projects are based on a thematic approach. Written student-teacher contracts with individualized guidelines and requirements are done for each project. Course requirements include a weekly sketchbook/journal, sketches for all contracted work, individual critiques, written reports, a portfolio, participation in competitive exhibits and an end-of-course show.

Art: 3-D Design 2 **350600CW**
Grades 10, 11, 12 **1 unit**

Prerequisite: Art 1 or approved portfolio

This advanced studio art course builds upon students' basic knowledge of ceramics and sculpture, and includes some cultural literacy, art history and career information. It begins with pottery production (advanced hand building and throwing on the potter's wheel), with the second half of the term covering advanced 3-D design. In ceramics, students acquire knowledge and skill in glazing, kiln operation, ceramic design and throwing on the wheel. In sculpture, students execute artwork in all sculpture techniques, a variety of art styles and in a variety of media. Students must also participate in class critiques, take written tests, give reports and participate in select competitive exhibits.

Art: 3-D Design 3 Honors (LHS, PHS) **350700HW**
Grades 11, 12 **1 unit**

Prerequisite: 3-D Design 2 or approved portfolio

In this studio art course, students produce creative, sophisticated and well-crafted artwork in the following 3-D art forms: ceramics (hand-built and/or wheel-thrown pottery) and/or sculpture. Art projects are based on a thematic approach. Written student-teacher contracts with individualized guidelines and requirements are done for each project. Course requirements include a weekly sketchbook/ journal, sketches for all contracted work, individual critiques, written reports, a portfolio, participation in both competitive exhibits and an end-of-course show.

Media Arts (LHS) **351500CW**
Grades 10, 11, 12 **1 unit**

Recommended: Art 1

Media Arts is a technology based art class. Students use Adobe Photoshop and other media formats for art production while integrating the elements of art and principles of design. Possible topics include filmmaking, digital painting and photography. The course curriculum focuses on art/media production, art history, aesthetics, criticism and introductory study of media literacy.

Photography 1 **456600CW**
Grades 10, 11, 12 **1 unit**

Prerequisite: Art 1

This studio art course focuses on basic black-and-white still photography techniques. The proper use of a variety of cameras and use of equipment is addressed. Topics include a survey of photographic history, composition and technical skills, darkroom (digital darkroom at RBHS) and computer lab production, research, cultural literacy, presentation of artwork and career opportunities.

Photography 2 **456700CW**
Grades 10, 11, 12 **1 unit**

Prerequisite: Photography 1

This studio art course focuses on advanced use of photography along with a more thorough exploration of photography history and various types of photography production. There is a continued focus on sketchbook journals, research, cultural literacy and the presentation of artwork. The course also covers the history of film and its relation to photography.

Art 4 Honors (GHS, LHS, RBHS, WKHS) **350401HW**
Grades 10, 11, 12 **1 unit**

Prerequisite: Art 2 or 3-D Design 2 or Photography 2 and completion of portfolio review process

This studio art course is designed for advanced visual arts students, some of whom are also enrolled in Advanced Placement Studio Art. Students are challenged to produce creative, sophisticated and well-crafted artwork of the quality required in the Breadth Section of an AP portfolio. Art projects are based on a thematic approach. Individualized student/ teacher contracts are done for each assignment. Course requirements include a weekly sketchbook/journal, sketches for all contracted work, individual and class critiques, written reports, a portfolio and participation in competitive exhibits.

This course serves as the Extension course for students enrolled in Advanced Placement Studio Art.

AP Studio Art (Drawing) (LHS, RBHS, WKHS) **357200AW**
AP Studio Art (2D Design) (GHS, LHS, RBHS, WKHS) **357400AW**
AP Studio Art (3D Design) (LHS, RBHS, WKHS) **357500AW**
Grades 11, 12 **1 unit**

Requirement: AP Studio Art Exam, Art 4 Honors linked course

This course requires students to produce a portfolio — either drawing, 2-D Design or 3-D Design— for evaluation. The portfolio is to be prepared and submitted in accordance with specifications required by the College Board. Each portfolio contains three sections: Quality (for which five actual works of art are submitted); Concentration (an in-depth, individual project of

up to 12 slides); and Breadth (12 slides that demonstrate a wide range of experience). The course meets the objective of a general art course at the college level. The College Board determines the syllabus for the course; therefore, the content of the course may not be adjusted. This course is linked to Studio Arts Honors.

Band 1 **353100CW**
Grades 9, 10, 11, 12 **1 unit**

Prerequisite: Audition

This course is a performance-oriented program, which includes marching band, concert band and various ensembles. Students must participate in band practice and performances after school.

Band 2 **353200CW**
Grades 9, 10, 11, 12 **1 unit**

Prerequisite: Band 1 and audition

This course is a performance-oriented program, which includes marching band, concert band and various ensembles. Students perform complex musical selections, perform in competitive events and must participate in band practice and performances after school.

Band 3 Honors (GHS, LHS, RBHS, WKHS) **353300HW**
Grades 9, 10, 11, 12 **1 unit**

Prerequisite: Band 2 or audition at advanced level

This course is a performance-oriented program, which includes marching band, concert band and various ensembles. Students perform more complex musical selections and perform in competitive events. Band practice and performances after school are required.

Band 4 Honors **353400HW**
Grades 9, 10, 11, 12 **1 unit**

Prerequisite: Band 3 Honors or audition at advanced level

This course is a performance-oriented program, which includes marching band, concert band and various ensembles. Students perform advanced, complex musical selections and perform in competitive events. Band practice and performances after school are required.

Percussion (GHS, LHS, RBHS, WKHS) **458300CW**
Grades 9, 10, 11, 12 **1 unit**

This course is for percussion students who have successfully passed eighth grade band classes and the spring high school band audition. The course drills basic fundamentals of major percussion instruments. It allows for work on percussion ensembles as well as music for the symphonic and concert bands. After-school rehearsals and performances are required.

Jazz Band 1 (LHS, PHS, RBHS) **453100CW**
Grades 9, 10, 11, 12 **1 unit**

This course is a set instrumentation of alto sax, tenor sax, a baritone sax, trumpets, trombones, piano, guitar, bass, drums, and one or two vocalists (piano, bass and guitar players must be able to read music and chord symbols). Students study jazz styles and improvisation and rehearse music for performances. After-school rehearsals and performances are required.

Jazz Band 2 (LHS, PHS, RBHS) **453200HW**
Grades 9, 10, 11, 12 **1 unit**

Prerequisite: Jazz Band 1

This course is a set instrumentation of alto sax, tenor sax, a baritone sax, trumpets, trombones, piano, guitar, bass, drums and one or two vocalists (piano, bass and guitar players must be able to read music and chord symbols and perform complex musical selections.) Students participate in a continued study of jazz styles and improvisation and rehearse music for performances. After-school rehearsals and performances are required.

Jazz Band 3 Honors **453300HW**
Grades 9, 10, 11, 12 **1 unit**

Prerequisite: Jazz Band 2 or audition at advanced level

This course is a set instrumentation of alto sax, tenor sax, a baritone sax, trumpets, trombones, piano, guitar, bass, drums, and one or two vocalists (piano, bass and guitar players must be able to read music and chord symbols at an advanced level and perform more complex musical selections). Students study jazz styles and improvisation, and rehearse music for performances. After-school rehearsals and performances are required.

Orchestra 1 **355100CW**
Grades 9, 10, 11, 12 **1 unit**

Prerequisite: Audition

This course is a performance-oriented program concentrating on complex string repertoire. Students participate in Concert Performance Assessment, Solo and Ensemble, and may perform in competitive events. Rehearsals and performances after school ar**e required.**

Orchestra 2 **355201CW**
Grades 9, 10, 11, 12 **1 unit**

Prerequisite: Orchestra 1 and audition

This course is a performance-oriented program concentrating on complex string repertoire. Students participate in Concert Performance Assessment, Solo and Ensemble Festival, and may perform in competitive events. Rehearsals and performances after school are required.

Orchestra 3 Honors **355303HW**
Grades 9, 10, 11, 12 **1 unit**

Prerequisite: Orchestra 2 or audition at advanced level

This course is a performance-oriented program concentrating on complex and advanced string repertoire. Students participate in Concert Performance Assessment, Solo and Ensemble Festival, SCMEA Region Orchestra Auditions and may perform in competitive events. Rehearsals and performances after school are required.

Guitar 1 (GHS, LHS, RBHS, WKHS) **356700CW**
Grades 9, 10, 11, 12 **1 unit**

This course is designed for the beginner with no prior music or guitar experience. Each student must provide his/her own acoustical guitar and have access to a CD/cassette player to practice daily lessons.

Piano 1 (GHS,LHS,PHS, RBH,WKH) **454100CW**
Grades 9, 10, 11, 12 **1 unit**

This course is for any student who wants to learn or improve piano keyboard skills. Students do not need any prior experience. Because instruction is individualized, students may range from beginners to advanced levels of skill. It is not required that students have access to a keyboard outside of class. Students who have previously taken this class may repeat it to gain increased

skill.

Chorus 1 **354103CW**
1 unit

This performance-oriented course is for beginning choral students. Students learn and study singing through performance, ear-training, sight-singing, musical literacy, vocal and breathing technique, and musical elements of performance through a variety of choral repertoire. Students are required to perform in all concerts and performances. After-school rehearsals may be required as necessary.

Chorus 3 Honors **354302HW**
Grades 10, 11, 12 **1 unit**

Prerequisite: Chorus 2 or audition at advanced level

This performance-oriented course emphasizes musical literacy, sight-singing, musicality, technique, and musical elements of performance. The course is designed for students who demonstrate vocal skill and knowledge. Students experience a higher level of training that is appropriate for a variety of larger ensemble choral repertoire. Students are required to perform in all concerts and performances. After-school rehearsals may be required as necessary.

Chorus 4 Honors (GHS, LHS, RBHS) **354400HW**
Grades 10, 11, 12 **1 unit**

Prerequisite: Audition at advanced level

This performance-oriented course is designed for choral students who demonstrate vocal skill, knowledge, and musical independence. Students experience a high level of vocal training regarding tone, diction, balance, blend, technical vocabulary, sight-reading, vocal technique, breathing, musical literacy, and musicality. This ensemble performs a variety of quality choral repertoire. Students are required to perform in all concerts and performances. After-school rehearsals may be required as necessary.

Chorus 6 Honors (GHS, LHS, RBHS) **354600HW**
Grades 9, 10, 11, 12 **1 unit**

Prerequisite: Audition at advanced level

This performance-oriented course is designed for the most advanced choral students. Students perform a variety of chamber choir music and other challenging repertoire appropriate for a select and auditioned ensemble as well as learn to sight-sing. Students must perform at a high level vocal skill and demonstrate musical literacy daily. Students are required to perform in all concerns, community and school performances, competitions and after-school rehearsals.

Music Composition Honors (LHS, RBHS) **357000HW**
Grades 10, 11, 12 **1 unit**

Prerequisite: Level 2 of Chorus, Band or Orchestra or audition at advanced level

This course introduces the basic compositional concepts of tonal music. Topics include scales and key signatures, rhythm, intervals, chords, transposition, part writing, figured bass, harmonization and analysis of music from the common practice period. Students develop rhythmic and aural skills through sight-singing, ear-training and listening activities. Students must have formal music training through enrollment in chorus, band and strings, and be able to read music and match pitch with the voice.

Musical Theatre (GHS, LHS, RBHS, WKHS) **459910CW**
Grades 9, 10, 11, 12 **1 unit**

Prerequisite: Audition may be required.
This course focuses on musical theatre production. During the course, students become familiar with the history of musical theatre. This performance-oriented class incorporates movement and vocal work. During this course, students audition for and perform in musical productions to be presented to the school and/or the public.

Musical Theatre Honors (NEW!)

Technical Theater Arts (LHS) **452500CW**
Grades 9, 10, 11, 12 **1 unit**

A hands-on course instructing students in areas of theater including stage management, lighting, sound design, costume design and construction and set design and construction. Students have real world application of these skills by participating in the technical elements of a theater production during the semester.

Theatre 1 **452102CW**
Grades 9, 10, 11, 12 **1 unit**
(RBH) **452101CW**

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This course explores every area of theater including theater history and styles, acting techniques, voice projection, improvisation, set design and costumes. The course concludes with a class production that allows every student the opportunity to apply the skills and knowledge obtained throughout the cours

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Theatre 2
Grades 9, 10, 11, 12 **1 unit**

Prerequisite: Theatre 1, Musical Theatre, or audition

This course focuses on the techniques, aspects and theories of acting through various activities including mime, pantomime, improvisation, script analysis, monologues and auditions. The course concludes with a class production allowing every student the opportunity to perform on stage.

Theatre 3 Honors **452302HW**
Grades 10, 11, 12 **1 unit**

Prerequisite: Theatre 2 or audition at advanced level

This course is an in-depth study of all aspects of a production from business manager to actor to technician. Students analyze written scripts for emotional, sensory and motivational information in order to perform effectively. Students apply all learned theater skills to student-produced works. As a culminating experience, students select or create an original play and carry it through to production. After-school rehearsals are required.

Theatre 4 Honors (GHS, LHS, RBHS, WKHS) **452402HW**
Grades 10, 11, 12 **1 unit**

Prerequisite: Theatre 2 or audition at advanced level

This course is an in-depth study of all aspects of a production from conception to performance. Students analyze written scripts for emotional, sensory and motivational information in order to perform effectively. Students apply all learned theater skills to student-produced works. As a culminating experience, students select or create an original play and carry it through to production. After-school rehearsals may be required. Some after school commitments may be required

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Theatre 5 Honors (NEW!)

Dance 1 (LHS, RBHS, WKHS) **450101CW**
Grades 9, 10, 11, 12 **1 unit**

This introductory level course is designed to expose beginner level students to the well-rounded art of dancing. It is the foundation course for the dance curriculum and does not require previous dance experience. This class focuses on basic modern, ballet, social dance, jazz and hip-hop dance techniques. Students are introduced to the introductory dance vocabulary and the history of dance.

Dance 2 (LHS, RBHS, WKHS) **450201CW**

Grades 9, 10, 11, 12 **1 unit**

Prerequisite: Successful completion of Dance 1 or audition at advanced level

Recommended: Studio dance experience

This course focuses on intermediate modern, ballet, jazz and hip-hop technique. Students enhance their knowledge of dance vocabulary and history. In addition, students explore choreography and participate in short choreography exercises and/or projects. In order to advance to Dance 2, the student must meet the technical requirements set forth by the teacher or by audition for the higher level course.

Dance 3 Honors (LHS, RBHS, WKHS) **450300HW**
(Advanced Technique and Choreography Development)

Grades 10, 11, 12 **1 unit**

Prerequisite: Successful completion of Dance 2 and/or audition at advanced level

Recommended: Studio dance experience

This advanced level course is designed to deepen the understanding and accuracy of performing various styles of dance technique. The course focuses on the advanced knowledge and understanding of modern, ballet, jazz, and hip-hop technique. Students investigate the choreography process and construct their own choreography throughout the year. Students continue to increase their knowledge of dance vocabulary and history of each style of dance. Students participate in various performances throughout the year. Specific attire is required for this course.

Dance 4 Honors (LHS, RBHS) **450400HW**

Grades 11, 12 **1 unit**

Prerequisite: Successful completion of Dance 3 and/or audition at advanced level

This course is a continuation of Dance 3 to further the exploration and development of dance. The class focuses on modern, ballet, jazz and hip-hop on a pre-professional level of expertise training. Students in this course choreograph several pieces for the concerts as an encapsulation project for the conclusion of the dance program. Students continue to increase their knowledge of dance vocabulary and history of each style of dance. Students participate in various performances throughout the year. Specific attire and shoes are required for this course.

Hip Hop Dance (LHS) **45991CW**
Grades 9, 10, 11, 12 **1 unit**

This course will focus on foundations and origins of hip-hop dance and street dance culture, and the journey to today's current definitions of hip hop and freestyle dance. The class will be explored primarily through movement participation by the students with dance instruction, drills and routines demonstrated by the teacher, plus related video/YouTube assignments, and/or guest artists. Students will be challenged and encouraged to understand and apply historical and practical knowledge of hip-hop.

Materials/Special Equipment Required

Strength & Conditioning for the Dancer (LHS) **349907CW**
Grades 9, 10, 11, 12 **1 unit**

This course is designed to help the student develop a comprehensive and concise strength and conditioning regime that will aid them in their athleticism, technique, and artistry. This class will focus on cardiovascular exercises, flexibility exercises, strength exercises, core/abdominal work, and arm/back/leg/work. The student will learn proper execution, placement and alignment of the body to compliment their dance training and to help prevent injuries.

ELECTIVES AT LHS

Advanced Composition and Creative Writing **303000CW**
Grades 11, 12 (WKHS) **1 unit elective credit**

This course is for students who desire additional writing instruction before attempting college English courses. Many composition assignments are the same as those required in major college freshman English programs. The course emphasizes all phases of the writing process. Related topics range from the use of computers in writing to the preparation of students' creative writing for publication.

Creative Writing (LHS, PHS) **303200CW**
Grades 10, 11, 12 **1 unit elective credit**

This course is for students who desire additional writing instruction before attempting college English courses. Many composition assignments are the same as those required in major college freshman English programs. The course emphasizes all phases of the writing process. Related topics range from the use of computers in writing to the preparation of students' creative writing for publication.

Mock Trial: Law and Literature (LHS) **309941CW**
10-12 **1 elective credit**

Law and Literature: Mock Trial, students will use literary analysis techniques to examine civil and criminal actions. This course teaches close reading, text and legal analysis, basic concepts of law, persuasive oral argument, critical thinking, and effective trial advocacy techniques. Using historical precedent and literary texts as analytical tools, students adopt courtroom demeanor to construct direct and cross examination, opening statements, closing arguments, courtroom exhibits, evidentiary trial objections, and witness portrayal.

ACT/SAT Prep Math (GHS, PHS, LHS, WKHS) **415001CH**
Grades 10, 11, 12 **½ unit**

Prerequisite: Geometry

This course is designed for students planning to take the SAT or ACT. The course includes familiarization with the content of the tests and test-taking procedures. Information about typical questions is presented. Students review the application of algebra and geometry to problem solving. The course also includes a focus on the appropriate use of calculators during the tests.

ACT/SAT Prep Verbal (GHS, PHS, LHS, WKHS)

401101CH
Grades 10, 11, 12 **½ unit**

This course is for students planning to take the SAT or ACT. It covers test content, test-taking procedures and information about typical questions. Students focus on specific areas of reading comprehension, words in context and vocabulary development.

ESOL
Grades 9, 10, 11, 12
Level One – 1 unit elective credit

Prerequisite: Assessing Comprehension and Communication in English State-to-State for English Language Learners (ACCESS) or the WIDA-ACCESS Placement Test.(W-APT) scores with teacher recommendation.

These courses are for English to Speakers of Other Languages (ESOL) students only. These support classes are designed to provide instruction and/or assistance to non-English Speaking (NES) and Limited English Proficient (LEP) students. The objective is to develop skills in reading, writing, listening and speaking. Emphasis is placed on context-related vocabularies to promote success in all core areas. All ESOL support classes are aligned to the WIDA Standards. These courses may be taken in combination with English 1, 2, 3 or 4.

Literary Film Studies (GHS, PHS, RBHS, WKHS, LHS) **309925CW**
Grades 9, 10, 11, 12 (WKHS Grades 10-12) **1 unit elective credit**

Prerequisite: English 1

This course is an interdisciplinary approach to film and is designed to enhance students' media literacy and give them a fundamental understanding of the development, range, social impact and technical aspects of this art form. The course helps students become more discriminating patrons of the film arts by focusing on exploring character, analyzing technique and analyzing thematic value. It also helps students examine how films convey meaning and both reflect and influence culture. Students examine films through discussions and various forms of writing, including reviews, viewing journals, multimedia projects and essays.

African American Literature (LHS) **309950CW**
Grades 10,11,12 1 unit elective credit

This English elective examines the literary, social, and cultural impact of works created by African Americans. Spanning the Colonial Period to Modernity, this course, through reading, analysis, and critical interpretations of film, art, music, and poetry, will provide enrolled students with a comprehensive literacy experience.

World Mythology (LHS) **309913CW**
Grades 10, 11, 12 **1 unit elective credit**

This course extends current knowledge of world mythology to include Greek/Roman, Norse, Middle Eastern, Native American and Far Eastern. The course includes an exploration of modern mythology, including urban legends. Students also explore the current uses of mythology in film and media. Course requirements involve reading, class discussion and writing (expository and creative).

AVID 1 **379912CW**
Grade 9 **1 Unit**

Some students will have previous experience with AVID in the middle school grades, and some students will be experiencing AVID for the first time. Either way, the 9th grade AVID Elective course will serve as a review of the AVID philosophy and strategies. Students will work on academic and personal goals and communication, adjusting to the high school setting. Students will increase their awareness of their personal contributions to their learning as well as their involvement in their school and community. There is an emphasis on analytical writing, focusing on personal goals and thesis writing. Students will work in collaborative settings, learning how to participate in collegial discussions and use sources to support their ideas and opinions. Students will prepare for and participate in college entrance and placement exams while refining study skills and test-taking, note-taking, and research techniques. They will take an active role in field trips and guest-speaker preparations and presentations. Their college research will include financial topics and building their knowledge of colleges and careers of interest.

Note: this course is for students accepted into the AVID cohort.

AVID 2 **379922CW**
Grade 10 **1 Unit**

During the 10th grade AVID Elective course, students will refine the AVID strategies to meet their independent needs and learning styles. Students will continue to refine and adjust their academic learning plans and goals, increasing awareness of their actions and behaviors. As students increase their rigorous course load and school/community involvement, they will refine their time-management and study skills accordingly. Students will expand their writing portfolio to include analyzing prompts, supporting arguments and claims, character analysis, and detailed reflections. Students will also analyze various documents in order to participate in collaborative discussions and develop leadership skills in those settings. Students will expand their vocabulary use, continuing to prepare for college entrance exams. Text analysis will focus on specific strategies to understand complex texts. Lastly, students will narrow down their colleges and careers of interest based on their personal interests and goals.

Note: this course is for students accepted into the AVID cohort.

Speech 1 (LHS, PHS, WKHS) **304000CW**
Grades 9,10, 11, 12 (WKHS Grades 10, 11, 12) **1 unit elective credit**

This course focuses on a variety of communication activities including specialized writing, oratory and motivational expression. Debate is a possible component of this class.

Journalism Introduction (LHS, WKHS, PHS) **305000CW**
Grades 9, 10, 11, 12 (WKHS Grades 10, 11, 12) **1 unit elective credit**

Recommended: Grade of 80 or better in previous English course

This course is designed to provide initial exposure to newspaper, yearbook and broadcasting production skills as well as to journalistic theory and history. The course teaches basic skills needed for writing news, features, editorials and sports stories. Emphasis is placed on sound journalistic principles. The course focuses on journalistic writing skills and information-gathering techniques, and introduces students to concepts of design and photojournalism.

Journalism Introduction - Sports (GHS, RBHS, LHS) **305001CW**
Grades 11, 12 **1 unit elective credit**

Recommended: Completion of English 3

This class introduces students to the best practices of sports journalism and more broadly, sports media. Journalism is no longer only the production of ink onto paper, and sports journalism is no exception in that dynamic. Students will be exposed to the history of sports media, in all forms – print, radio, TV, online, and mobile. Students will be reporting and writing in all forms, including social media, photo journaling, and online content creation. Students will explore and participate in assignments in media presentation, broadcasting, interviewing, reporting, and more. Students will be responsible for creating and editing content that will be published on the school's official athletic website and social media pages..

Broadcasting Production (LHS, PHS) **309929CW**
Grades 9, 10, 11, 12 **1 unit elective credit**

Prerequisite: Interview and portfolio

Recommended: Grade of 80 or better in Journalism Introduction and English class.

Broadcasting Production explores the contemporary world of digital video and television production. Students learn basic editing skills, on-screen presence, speaking, writing and script editing. They also gain experience with industry standard video editing software in an up-to-date editing program. Students work in collaborative groups to produce video segments using a variety of cameras, while learning the basics of studio and field production, lighting and sound. Clases produce a daily news program along with a weekly show.

Broadcasting Production 2–8 (LHS,PHS) **309932CW**
Grades 9, 10, 11, 12 **309933CW**
309934CW
309935CW
309936CW
309937CW
309938CW
I unit elective credit

Prerequisite: Broadcasting Production

Broadcasting 2 is a course that builds on the skills learned in Broadcasting 1. Students learn more advanced editing skills and create specialized projects for sports teams, school initiatives and teachers. Students in Broadcasting Production 3-8 self -direct their own

learning of advanced editing skills, on screen presence, speaking, writing and script editing using professional equipment.

Multimedia Publications/Productions (RBHS, WKHS, LHS) **309915CW**
Grades 9, 10, 11, 12 (WKHS Grades 10-12) **1 unit elective credit**

In this course students get hands-on experience as they learn the basics of preparing content for an interactive, multimedia online publication. Students produce high-quality journalistic stories for Web distribution that include graphics, video, audio, still photos, and text. Students are responsible for gathering information, writing stories, taking pictures, shooting and editing video, and uploading content. In addition to enhancing digital journalism skills, students learn about important issues pertaining to convergence media such as media ethics, copyright, social media in the newsroom, media literacy, and how to create infographics to present statistical data.

Yearbook Production **305401CW**
Grades 9, 10, 11, 12 **1 unit elective credit**

Prerequisite: Interview and portfolio

Recommended: Grade of 80 or better in Journalism Introduction and English class

After having been accepted through the real-world portfolio and interview process, students learn the basics of reporting, caption and story writing, AP style copy, photography and using a publishing program to fill out pre-designed templates made by the editors.

Yearbook Production 2 **305600CW**
Grade 9, 10, 11, 12 **1 unit elective credit**

Students are mentored to learn the basics of design, how to create a spread from scratch and the basics of Photoshop. Students are mentored in business ad sales and getting interviewed for a job. They job shadow to learn editor duties. Students are able to apply for their first editing position by completing the application process.

Yearbook Production 3 HN: (Intro to Yearbook Editing) **309943HW**
Grades 10, 11, 12 **1 unit elective credit**

Students complete tasks required of production students while managing beginner editing positions. Editors learn journalism ethics and law and are responsible for upholding copyright laws. They learn the basics of mentoring and providing professional feedback. Editors are expected to submit work for state judging at SCSPA.

Yearbook Production 4 HN: (Assistant Editing) **309944HW**
Grades 10, 11, 12 **1 unit elective credit**

Students are responsible for designing senior ads and business ads for paying clients. Students may apply for a Lead Editor Position at the end of the course. Editors attend professional development through SCSPA, SIPA or JEA conferences. Editors are expected to submit work for state judging at SCSPA.

Yearbook Production 5 HN: (Intro to Lead Editing) **309945HW**
Grades 11, 12 **1 unit elective credit**

Students teach lessons on design, photography, reporting, copy in AP style and theme. They check spreads for AP style, design and photography rules. Lead Editors are in charge of senior and business ads, sales and oversee all copy, design and production. They assign spreads, are in charge of assigning mentors, deal with finances and budget, and are the point of contact with all professionals at the production plant, school and community.

Yearbook Production 6 HN: (Lead Editing) **309946HW**
Grades 11, 12 **1 unit elective credit**

Lead Editors continue the work of course 6. Once the book is completed, they are in charge of the creation of the new book and theme. They create all the templates and modules for the new book, teach Photoshop and start assigning spreads. Lead Editors and Editor-in-Chief submit the yearbook publication for state and national judging competitions.

Yearbook Production 7 HN: (Editors-in Chief) **309947HW**
Grade 12 **1 unit elective credit**

The publication's editorial leaders have final responsibility for all operations and policies. They create and set deadlines for all other editors and staffers. They meet with the professional designers, publishers, and other necessary professionals along with an adviser to plan business ad sales and budget all of the yearbook's major decisions. Editors-In Chief are in charge of proofs and submission and contact the publisher when there are any concerns.

Yearbook Production 8 HN: (Editors-in Chief) **309948HW**
Grade 12 **1 unit elective credit**

The publication's editorial leaders have final responsibility for all operations and policies. They create and set deadlines for all other editors and staffers. They meet with the professional designer, publishers, and other necessary professionals along with adviser to plan business and sales and budget all of the yearbook's major decisions. Editors-in-Chief are in charge of proofs and submission and contact the publisher when there are any concerns.

Holocaust and Genocide Studies **339920CW**
(LHS, GHS, PHS, WKHS)
Grades 10, 11, 12 **1 unit**

This course explores genocide in the 20th century. The study of the Holocaust focuses on the state-sponsored, systematic persecution and annihilation of the European Jewry by Nazi Germany and its collaborators. Students study the persecution and murder of Roma/Sinti, the handicapped, Poles, and political dissidents. The in-depth study of the Holocaust is the foundation for studying other genocide events of the 20th century to include the former Soviet Union, Bangladesh, Indonesia, East Timor, Cambodia, former Yugoslavia and Rwanda. There is a culminating project created by the students that explores intolerance issues in the United States, creation of international justice after genocide events, or current genocidal events in other areas of the world. Emphasis is placed on the use of analytical and interpretive skills so that students are able to evaluate and defend positions on issues of intolerance with sound reasoning and evidence. This course is not designated as a social studies elective credit.

African American Studies **339906CW**
Grades 10, 11, 12 (LHS, GHS, RBHS) **1 unit**

This elective course examines the history and culture of Africa and the African-American experience in an interdisciplinary format. It includes an analysis of the unique historical, cultural, and social developments from the Middle Passage to the present day. The course will address the literary and artistic contributions of African-Americans to American culture. Critical thinking, reading, writing, and oral presentation skills are emphasized. This course is not designated as a social studies elective credit.

Model United Nations (UN) Honors **339908HW**

Grade 10, 11, 12 (LHS) **1 Unit**

Model UN provides an academic learning experience through the simulation of the structures, processes, and issues of the member nations of the United Nations Organization. The Model UN class offers students a unique opportunity to learn about international relations while role–playing United Nations delegates. Students will prepare to represent the school in competitive regional events.

Outdoor Living **349906CW**
Grades 10, 11, 12 (LHS, WKHS) **1 unit**

This course is designed to educate students about the outdoors and its safe use by addressing hunter education, boater safety, compass reading, archery, and Project Adventure activities. Students have the opportunity to become certified in hunter education and boater safety.

Strategies for Success **339902CH**
Grade 9 (LHS) **.5 unit**

Course Description: The goal of this course is to introduce freshmen to High School and help you develop the knowledge necessary to succeed not only in high school but throughout life. It is designed to help students develop the knowledge, attitudes, and skills to promote wellness, maintain health, build time and project management, use of technology, media, and digital literacy. Power skills are integrated within the context of all of these major areas. Instructional topics include injury prevention and safety; growth development and sexual health and responsibility; alcohol, tobacco and other drugs; mental and emotional health; personal and community health; nutritional health; digital literacy; media literacy; financial literacy; college and career exploration, as well as an overview of the culture and community of LHS. This course includes instruction that complies with the requirements in the Comprehensive Health

Education Act of 1988 (CHEA), the amendment to CHEA, Erin's Law, Ronald Rouse's Law (CPR and AED use awareness) and provides the credit needed for graduation.

Students in Action 1 (LHS) **379918CW**
Grades 10, 11, 12 **1 unit**

Students will learn effective leadership, communication, and presentation skills. In addition, they will research, organize data, track service throughout the school, and complete a variety of service projects in the school and community. Application and recommendation is required.

Students in Action 2 Honors (LHS) **379919HW**
Grades 10, 11, 12 **1 unit**

Course Description: Students will learn effective leadership, communication, and presentation skills. In addition, they will research, organize data, track service throughout the school, and complete a variety of service projects in the school and community. Application and recommendation is required.

Students in Action 3 Honors (LHS) **379925HW**
Grades 10, 11, 12 **1 unit**

Course Description: Students will implement previously learned leadership, communication, and presentation skills at a high level. In addition, they will research, organize data, track service throughout the school, and complete independent, school-wide, and community service projects. They will compose reflections, portfolios, and presentations for state and national levels. Application and recommendation is required.

Students in Action 4 Honors (LHS) **379926HW**
Grades 10, 11, 12 **1 unit**

Students will implement previously learned leadership, communication, and presentation skills at a higher level. In addition, they will research, organize data, track service throughout the school, and complete independent, school-wide, and community service projects. They will compose reflections, portfolios, and presentations for state and national levels. Application and recommendation is required.

Teacher Cadet **373500EW**

Grade 12 (LHS, RBHS, WKHS) **1 unit**

Requirement: Students must meet the following state requirements: an overall grade point average of 3.0 on a 4.0 scale (not Uniform Grading Scale) in a College Prep program of studies, a high class rank, five teacher recommendations and a written essay.

This course is for four-year college bound students and students who plan to begin post-secondary education at a two- year institution and transfer to a four-year college. Emphasis is placed on analytical and interpretive skills. The course content focuses on introducing the profession of education and looks at all facets of education, K-12. Applicants are screened according to the admission criteria.

Note: Since Teacher Cadet is a dual credit course, students are required to pay a college registration fee which is not refundable if the course is dropped.

PHYSICAL EDUCATION/JROTC

Physical Education 1 **344100CW**
Grades 9, 10, 11, 12 **1 unit CHE credit**

This course satisfies the graduation requirement for physical education and emphasizes personal fitness and lifetime activities. Students evaluate their present fitness level through assessment procedures learned in class and use this data to develop a personal fitness program. Through their personal fitness program and class fitness activities, students work toward meeting current health-fitness standards.

Physical Education 2 **(YOGA - LHS)** **344200CW**
Grades 10, 11, 12 **1 unit**

Prerequisite: Physical Education 1 or JROTC I

This course focuses on personal fitness, higher skill development, and lifetime physical activity. It is designed for motivated students who want to improve their physical fitness in areas including muscular strength and endurance, cardiovascular fitness, and flexibility, as well as engage in various types of sports and skill training. *Student athletes should sign up for Physical Education 3 and 4 when available.*

Unified PE **344201CW**
Grades 10,11,12 (LHS, PHS, WKHS, RBHS) **1 unit**

Prerequisite: Physical Education 1 or JROTC I

This course may not be used in lieu of Physical Education 1 to satisfy the graduation requirement. This course is a training course for Special Olympics, focusing on partnering general education students with students participating in Special Olympics in an effort to prepare for competition. An application is required and may be picked up in the School Counseling and Advisement Office.

Physical Fitness and Weight Training 1 **349900CW**
Grades 10, 11, 12 (GHS, PHS, LHS, RBHS) **1 unit**

Prerequisite: Physical Education 1 or JROTC I

This course is designed for motivated students who want to improve their personal fitness. *Student athletes should sign up for Physical Education 3 and 4 when available.* Physical training (weight training and conditioning) is the focus of the class with emphasis on the proper development of weight- training techniques and improving the students' physical fitness (cardiovascular fitness, muscular endurance, muscular strength, flexibility and body composition). Assessment is based on participation, student improvement, and knowledge of technique and safety.

Physical Education 3 **344300CW**
Physical Education 4 **344400CW**
Grades 10, 11, 12 **1 unit**

Prerequisite: Student Athletes; Physical Education 1 or JROTC I

This course is designed to provide highly motivated student- athletes with more intensive sports specific training. The class resembles Physical Fitness and Weight Training 1 but offers instruction at a more advanced level. Assessment is based on participation, student-athlete improvement, and knowledge of technique and safety.

Marching Band with Physical Education 1 **450831CW**
Grades 9–12 **1 unit CHE credit**

Students who participate in Marching Band can choose to also enroll in this course in order to earn the
graduation requirement credit for Physical Education. Students will complete activities and assignments that

meet the Physical Education 1 standards and indicators. Students will be tested for fitness level at the
beginning and end of the course as required by the Student Health and Fitness Act.

Junior ROTC 1 **375100CW**
Grades 9-12 **1 unit**

Introductory course that educates cadets on marching, uniform wear, physical fitness, and AS-100 Aerospace History and LE-100 Traditions, Wellness, and Foundations of Citizenship academics. Cadets will learn the basics of followership and teamwork.

Prerequisite: All JROTC students must be enrolled voluntarily and participate in the full program to include taking JROTC academic courses, participate in the cadet corps, and wear the prescribed uniform.

JROTC is a citizenship and leadership program designed to foster interest in community service, increased personal responsibility, and developing moral character. Students participate in hands-on extracurricular activities and field trips to build experience with life skills, increase knowledge in STEM areas of study, develop organizational leadership and project management skills, and embrace physical and mental wellness.

Uniform wear is prescribed for one school day per week, and all uniform items are issued at no expense to the student. Parental consent for physical fitness activities and field trips is required. ANY student interested in AFJROTC will be given a chance to participate in the program regardless of any perceived limitations including medical, physical, academic, or otherwise. We are an inclusive program designed to connect students to the community & develop a sense of servant leadership. JROTC meets the Physical Education graduation requirement, and can be taken for multiple terms as an elective. Participation in JROTC also makes the student eligible to participate (voluntarily) in after-school co-curricular activities to include MarksmanshipTeam, Aerospace (drone/model rockets/RC plane) Team, Raider (fitness competition) Team, Drill (marching exhibition) Team, Flag/Color Guard, CyberPatriot (cyber defense competition) Team, and Flight Simulation Team. There is no obligation for military service if a student enrolls in JROTC.

Naval Science 1 (WKHS) introduces the history of the military and the U.S. Navy role in defense, beliefs and values in a democracy, leadership styles and group interactions, communications process, health, personal hygiene and first aid. The course covers the Navy JROTC missions and organization, customs and courtesies, uniform regulations for badges and insignia, and U.S. Navy Policies. The NJROTC school week is normally divided into three days of academic study and two days of Leadership Laboratory, which includes personnel inspections, drill, and physical training. Field trips may also be taken as an extension of classroom training. Naval Science is largely an extension of science, social studies, and civics in a naval application.

Junior ROTC 2 **375200CW**
Grades 9-12 **1 unit**

Course for continuing cadets that furthers training on marching, uniform wear, physical fitness, teamwork, and AS-210 The Science of FLight and LE-200 Communication, Awareness, and Leadership academics. Cadets will be given the opportunity to command a flight (10-30 cadet group) to get hands-on leadership experience.

Naval Science 2 (WKHS) contains modules on maritime history, leadership, and nautical sciences. Specific units include Navy history from the Revolution to the present day, geography, oceanography, meteorology, astronomy, and physical science. The NJROTC school week is normally divided into three days of academic study and two days of Leadership Laboratory, which includes personnel inspections, drill, and physical training. Field trips may also be taken as an extension of classroom training. Naval Science is largely an extension of science, social studies, and civics in a naval application.

Junior ROTC 3 **375300CW**
Grades 10-12 **1 unit**

Course for continuing cadets that continues training and education on marching, uniform wear, physical fitness, teamwork, and AS-300 Exploration of Space: The High Frontier and LE-300 Life Skills and Career Opportunities academics. Cadets will have the opportunity to hold cadet corps staff positions in order to get hands-on project management and leadership skills experience.

Naval Science 3 (WKHS) contains modules on naval knowledge, leadership, and naval skills. Specific units include sea power, naval operations, military law, naval weapons and warfare, ship construction, seamanship, and navigation. The course may also incorporate SAT preparation. The NJROTC school week is normally divided into three days of academic study and two days of Leadership Laboratory, which includes personnel inspections, drill, and physical training. Field trips may also be taken as an extension of classroom training. Naval Science is largely an extension of science, social studies, and civics in a naval application.

Junior ROTC 4 **375400CW**
Grades 10-12 **1 unit**

Course for seniors that furthers training on uniform wear, physical fitness, teamwork, and AS-410 Survival: Survive and Return and LE-400 Principles of Management academics. Cadets will have the opportunity to assume command and leadership roles in the cadet corps to further develop practical leadership and management skills.

Junior ROTC 5 **375500CW**
Grades 11-12 **1 unit**

Course for seniors that furthers training on uniform wear, physical fitness, teamwork, and AS-410 Survival: Survive and Return and LE-400 Principles of Management academics. Cadets will have the opportunity to assume command and leadership roles in the cadet corps to further develop practical leadership and management skills.

Junior ROTC 6 **375600CW**
Grades 11-12 **1 unit**

Course for seniors that furthers training on uniform wear, physical fitness, teamwork, and AS-410 Survival: Survive and Return and LE-400 Principles of Management academics. Cadets will have the opportunity to assume command and leadership roles in the cadet corps to further develop practical leadership and management skills.

Junior ROTC 7 **375700CW**
Grades 12 **1 unit**

Course for seniors that furthers training on uniform wear, physical fitness, teamwork, and AS-410 Survival: Survive and Return and LE-400 Principles of Management academics. Cadets will have the opportunity to assume command and leadership roles in the cadet corps to further develop practical leadership and management skills.

Junior ROTC 8 **375800CW**
Grades 12 **1 unit**

Course for seniors that furthers training on uniform wear, physical fitness, teamwork, and AS-410 Survival: Survive and Return and LE-400 Principles of Management academics. Cadets will have the opportunity to assume command and leadership roles in the cadet corps to further develop practical leadership and management skills.

CAREER AND TECHNICAL EDUCATION

https://schools.lexington1.net/domain/1109

Grade levels are shown in the order in which priority is given to students. Courses that have the star symbol ★ beside them meet the statewide Carnegie unit requirement for computer science.

In addition, a list of industry credentials is listed for courses with curriculum that align to these credentials. Students may have the opportunity to earn these industry credentials as part of their program of study. Note, not all credentials are available at all schools.

Finally, student leadership training is an integral part of the instructional program for career and technology education. Appropriate organizations are available to students in career clusters, including DECA, FBLA, FFA, HOSA, and SkillsUSA.

Denotes Career and Technology Education (CTE) Completer programs. CTE completer programs require three or four units as indicated. Students who complete the required courses will be recognized as CTE completers upon graduation. Completers who obtain certification are considered *Career-Ready* by the state of South Carolina.

CTE PROGRAM AREA INDEX (Click on link to specific page.)

ARTS, AV TECHNOLOGY & COMMUNICATIONS CLUSTER
(Digital Art & Design, Mechanical Design)

BUSINESS MANAGEMENT & ADMINISTRATION CLUSTER
(Business Law, Desktop Publication Design, Image Editing, Digital Workplace)

FINANCE CLUSTER

HOSPITALITY & TOURISM CLUSTER
(Culinary Arts, Hospitality)

INFORMATION TECHNOLOGY CLUSTER
(Computer Science and IT)

MARKETING CLUSTER

EDUCATION AND TRAINING CLUSTER

AGRICULTURE, FOOD & NATURAL RESOURCES CLUSTER

ARCHITECTURE & CONSTRUCTION CLUSTER
(Architecture, Building Construction, Electricity)

MANUFACTURING CLUSTER
(Machine Technology, Welding)

SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS CLUSTER

TRANSPORTATION, DISTRIBUTION & LOGISTICS CLUSTER
(Auto Collision, Auto Tech, Power Equipment)

HEALTH SCIENCE CLUSTER

HUMAN SERVICES CLUSTER
(Child Development, Cosmetology, Food & Nutrition, Housing)

LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY CLUSTER

SCHOOL OF ARTS AND HUMANITIES
ARTS, AV TECHNOLOGY & COMMUNICATIONS CLUSTER

Digital Art and Design CTE Completer Sequence

This program requires the following courses:

Digital Art and Design 1

Digital Art and Design 2

AND one of the following (*) courses for a 3-course completer OR any two for a 4-course completer:

Entrepreneurship*

Family & Consumer Sciences 1*

Family & Consumer Sciences 2*

Marketing Management*

Mechanical Design 1*

Arts, Audio-Video Technology and Communications, work-based credit work-based credit

(WBC does not count as 3rd course in sequence)

The ability to create, interpret, and utilize blueprints is essential to the engineering and architecture profession. This class uses manual drafting and computer-aided drafting software, such as AutoCAD and Solidworks, to help students develop these skills.

Digital Art and Design 1 (LTC) **612000CD**

Grades 11, 10, 12 **2 units**

This course is designed for students who have an interest in pursuing a career in the graphic design field. The course begins with a basic understanding of design, color theory and typography, then moves on to build electronic design skills in corporate identity, advertising, packaging and other areas. Projects are designed to allow freedom of expression and individual interpretation. These hands-on projects are produced on computers using the latest software. Students also have access to scanners, digital cameras and color laser printers.

Please note that this course requires a final grade of 75 or higher or demonstration of mastery of industry skills to progress to Level II.

Digital Art and Design 2 (LTC) **612100CD**
Grades 12, 11 **2 units**

Prerequisite: Digital Art and Design 1
Grade of 75 or higher in the prerequisite course or approved demonstration of industry skills.

Industry Credential Alignment: Adobe Certified Associate – Photoshop, Illustrator, InDesign

This course is a continuation of Digital Art and Design 1 and includes further study in the graphic field. It also includes portfolio development and presentation, along with a focus on job resumé application and interview. Students may be eligible to participate in cooperative work experiences or apprenticeships, which combine career and technology training with supervised work experience in business and industry.

Mechanical Design 1 (GHS, LTC, RBHS, WKHS) **617200CW**
Grades 9, 10, 11, 12 **1 unit**

The ability to create, interpret, and utilize blueprints is essential to the engineering and architecture profession. This class uses manual drafting and computer-aided drafting software, such as AutoCAD and Solidworks, to help students develop these skills.

Mechanical Design 2 (GHS, LTC, RBHS, WKHS) **617300CW**
Grades 10, 11, 12 **1 unit**

Prerequisite: Mechanical Design 1
Industry Credential Alignment: Certified SolidWorks Associate

This course is a continuation of the concepts and skills learned in Mechanical Design 1. Students will use Solidworks to create models and assemblies that can be 3D printed as prototypes for design and innovation. Upon completion of the coursework, students will be eligible to take the CSWA exam for an opportunity to earn a highly valued industry-level certification for use of this software.

SCHOOL OF BUSINESS MANAGEMENT & INFORMATION SYSTEMS
BUSINESS MANAGEMENT & ADMINISTRATION CLUSTER

Business Information Management CTE Completer Sequence

Required Courses:

Digital Publication Design

Image Editing 1

AND one of the following (*) courses for a 3-course completer OR any two for a 4-course completer:

Fundamentals of Computing

Accounting 1*

Entrepreneurship*

Business Law

Fundamentals of Web Page Design & Development*

Advertising

Business Data Applications*

IT Fundamentals

Social Media in Business

Business Mgmt. & Administration, work-based credit

(WBC does not count as 3rd course in sequence)

General Management CTE Completer Sequence

Required Courses:

Accounting 1

Entrepreneurship

AND one of the following (*) courses for a 3-course completer OR any two for a 4-course completer:

Marketing*

Social Media in Business*

Fundamentals of Web Page Design and Development*

Business Data Applications*

Business Finance

Business Law*

Marketing Management

Business Mgmt. & Admin. work-based credit

(WBC does not count as 3rd course in sequence)

Business Law (LTC, WKHS) **504400CW**

Grades 12, 11, 10 **1 unit**

This course provides students with knowledge of the legal environment in which adults live and work, including such areas as contracts, estates, marriage, divorce and consumer protection. Students study true situations that demonstrate how business and personal law impact on the lives of young people and adults. Students focus on the legal principles related to constitutional, criminal, civil and administrative laws, as well as the court system.

Digital Publication Design (PHS, RBHS, WKHS) **517602CW**

Grades 10, 11, 12 **1 unit**

Industry Credential Alignment: Adobe Certified Associate – Illustrator

Students create professional level publications using various graphics and text software and techniques. Students create, format, illustrate, design, edit/revise, and print publications while emphasizing productivity of digitally produced newsletters, flyers, brochures, reports, advertising materials, and other publications. Proofreading, stem composition, and communication skills are included. Students use the following software programs: Adobe InDesign, Illustrator, and Photoshop as well as Microsoft Word and Publisher.

Image Editing **534002CW**

Grades 9, 10, 11, 12 **1 unit**

Students are instructed in the fundamental features of using digital imaging software in editing and designing both photos and graphics. Students also learn the use of technologies related to digital imaging such as: basic computer operations; file sharing across networks; digital scanning; digital photography; preparing documents for output to various types of high resolution printers, and color calibration. Successful completion of Image Editing helps provide a foundation for continued training as well as complementary training for related coursework.

Business Data Applications **502100CW**

Grades 9, 10, 11, 12 **1 unit**

The collection, manipulation, storage, and retrieval of data has become an important tool and indicator of business success. Decisions are made based on data analysis that impact all parts of society. In Data Applications, students analyze different data sets, collect, manipulate, store, secure, and retrieve data using electronic spreadsheets and database software applications. Students use problem-solving and critical thinking skills to prepare computational artifacts which will be used to make informed decisions using a real-world approach.

Professional and Leadership Development (PHS) **517800CW**
Grades 12, 11, 10 **1 unit**

Prerequisite: Must be enrolled in a CTE course or a member of a Career & Technical Student Organization (CTSO-DECA, FFA, HOSA, SkillsUSA)

Students study leadership skills necessary for success in careers through effective communications, problem- solving techniques, and managing resources and meetings. Students develop an understanding of community service as a part of their civic and professional responsibilities.

SCHOOL OF BUSINESS MANAGEMENT & INFORMATION SYSTEMS
FINANCE CLUSTER

Business Finance CTE Completer Sequence

Required Courses:
Accounting 1
Business Finance

AND one of the following additional courses to meet program requirements

Marketing
Entrepreneurship
Personal Finance
Digital Workplace Applications
Business Law
Finance, work-based credit
(WBC does not count as 3rd course in sequence)

Accounting 1 **500100CW**

Grades 10, 11, 12 **1 unit**

This course helps students develop the skills necessary for the highly technical interaction between accounting and business. Students focus on accounting concepts, principles and practices. They also study procedures used in an accounting cycle as applied to several different kinds of business operations. Use of the computer in simulated activities gives students an opportunity to see the advantages of technology in accounting procedures.

Business Finance (LTC, WKHS) **527300CW**

Grades 12, 11 **1 unit**

Prerequisite: Accounting I

Students in this course receive instruction in the foundations of corporate business finance concepts and applications. Topics include financial fundamentals, the financial environment, management planning, maintenance and analysis of financial records, long and short term financial activities, financial business activities, financial institutions and banking services, consumer credit, business insurance, technology and financial management, and international finance.

Personal Finance **513102CW**

Grades 12, 11, 10 **1 unit**

Industry Credential Alignment: W!SE Financial Literacy Certification

This course introduces students to financial literacy by solving real-life problems as related to financial matters. Topics include completion of W-4 and tax forms, reconciling bank accounts, budgeting, buying insurance, using credit, and investing in stocks and real estate. The course focuses on setting up accounts, adding transactions to the register, using transaction categories, balancing the checkbook and writing checks. Speakers and current videos are a vital part of the course.

SCHOOL OF BUSINESS MANAGEMENT & INFORMATION SYSTEMS
HOSPITALITY & TOURISM CLUSTER

Hospitality and Tourism Management CTE Completer Sequence

Required Course:
Introduction to Hospitality and Tourism Management (WKHS)
Event & Entertainment Management (WKHS)

AND one of the following courses to meet program requirements:

Accounting 1
Entrepreneurship
Digital Workplace Applications
Culinary Arts Management 1
Marketing Management

Hospitality and Tourism, work-based credit
(WBC does not count as 3rd course in sequence)

Culinary Arts Management CTE Completer Sequence

This program requires the following courses (at least 3 total credits):
Culinary Arts Management I (LTC, PHS)
Culinary Arts Management II (LTC, PHS)

Culinary Arts Management 1 (LTC, PHS) **572000CD**

Grades 11, 10, 12 **2 units**

Industry Credential Alignment: ProStart

This course is designed to study the food service industry. It covers all aspects of the industry, potential careers, equipment use, food preparation, food storage, ordering and work simplification. Students receive practical and theoretical experiences to obtain competence in each area.

Please note that this course requires a final grade of 75 or higher or demonstration of mastery of industry skills to progress to Level II.

Culinary Arts Management 2 (LTC, PHS) **572100CD**
Grades 11, 12 **2 units**

Prerequisite: Culinary Arts 1
Grade of 75 or higher in the prerequisite course or approved demonstration of industry skills.

Industry Credential Alignment: ServSafe, ProStart

This course is the continuation of Culinary Arts 1. The course covers food preparation and the foodservice industry. Students have the opportunity to develop and apply skills in food service. Students in this course are required to purchase a uniform.

Introduction to Hospitality and Tourism Management (WKHS) **547800CW**
Grades 9, 10,11, 12 **1 unit**

Industry Credential Alignment: Guest Service Gold® Making Connections [AHLEI-GOLDMC]

This course explores the nature, concepts and impact of the hospitality and tourism industry. This course focuses on foundational information about the hospitality and tourism industry and provides opportunities for students to get a taste of what hospitality and tourism is all about. Course content includes: career exploration, employability and career development skills, guest satisfaction, safety, security and environmental practices, the history of the hospitality industry, and the hospitality and tourism segments. Students are encouraged to participate in extended learning experiences such as career and technical student organizations (DECA) and other leadership or extracurricular organizations to enhance their learning.

Event & Entertainment Management **547500CW**
Grade: 10, 11, 12 (WKHS) **1 unit**

Prerequisite: Introduction to Hospitality and Tourism Management

This course familiarizes students with management techniques and strategies for successful planning, promotion, and implementation of special events that result in extraordinary and memorable experiences. Students will learn the basics about what it takes to add the “WOW factor” for customers whether the event is a sporting event, corporate event, family reunion, cruise, wedding, party, etc. Students will engage in project- and problem-based learning opportunities for event evaluation, direct observation of, and hands-on involvement in the

planning and staging of special events. Students are encouraged to participate in extended learning experiences such as career and technical student organizations (DECA) and other leadership or extracurricular organizations to enhance their learning.

SCHOOL OF BUSINESS MANAGEMENT & INFORMATION SYSTEMS
INFORMATION TECHNOLOGY CLUSTER

Networking Systems CTE Completer Sequence

Required Courses:

Networking Fundamentals

Advanced Networking

AND one of the following (*) courses for a 3-course completer OR any two for a 4-course completer:

Advanced Web Page Design and Development

Computer Programming with Python 1

Computer Programming with Python 2

Computer Repair and Service

Entrepreneurship*

Cyber Security Fundamentals

Fundamentals of Computing*

Fundamentals of Web Page Design and Development

IT Fundamentals

Information Technology work-based credit

Programming and Software Development CTE Completer Sequence

Required Courses:

Computer Programming with Python 1

Computer Programming with Python 2

AND one of the following (*) courses for a 3-course completer OR any two for a 4-course completer:

Advanced Web Page Design and Development

Cyber Security Fundamentals

Entrepreneurship

Fundamentals of Computing*

Fundamentals of Web Page Design and Development

Game Design and Development

IT Fundamentals*

Information Technology work-based credit

Foundations of Animation

Web and Digital Communications CTE Completer Sequence

Required Courses:
Fundamentals of Web Page Design and Development
Advanced Web Page Design and Development

AND one of the following (*) courses for a 3-course completer OR any two for a 4-course completer:

Cyber Security Fundamentals*
Digital Media Marketing*
Digital Publication Design
EntreFundamentals of Computing*
Game Design and Development
Image Editing*
Digital Workplace Applications

IT Fundamentals
Professional and Leadership Development
Social Media Marketing*
Information Technology work-based credit
Foundations of Animation

Game & Interactive Media Design CTE Completer Sequence

Required Courses:
Fundamentals of Animation
Game Design & Development

AND two of the following courses:

Accounting 1
AP Computer Science A
AP Computer Science Principles
Computer Programming with Python 1
Computer Repair and Service

Cyber Security Fundamentals
Digital Art & Design 1
Entrepreneurship
Fundamentals of Computing
Fundamentals of Web Page Design and Development
Information Technology work-based credit

AP Computer Science A ★ (RBHS) **477100AW**
Grades 12, 11 **1 unit**

Requirement: AP Computer Science A exam, Computer Science Lab Honors linked course
Recommended: Grade of 75 or higher in Algebra 2 HN or a score of 60/600 on the math portion of the PSAT/SAT or grade 75 of Computer Programming 1
Industry Credential Alignment: Microsoft Java Certification

This course of study is designed to emphasize the fundamentals of computer programming. Topics include computer software, program design and development, and practical experience in programming, using modern, object-oriented languages.

This course prepares students for the Advanced Placement Computer Science A Examination. The course meets the objectives of an introductory computer science course at the college level. Students learn how to design and implement solutions to problems by writing, running, and debugging computer programs; using algorithms and data structures to solve problems; and coding with the programming language Java. The College Board determines the course description; therefore, the content of this course must adhere to those requirements. Students taking this course should have access to a computer outside of class for at least three hours per week. Successful completion of this course meets the computer science requirement for graduation.

AP Computer Science Principles Lab Honors **477402HW**
Grades 9, 10, 11, 12 **1 unit**

This course is a required link to Advanced Placement Computer Science Principles and is open only to students enrolled in that course.

AP Computer Science Principles ★ **477500AW**
Grades 9, 10, 11, 12 **1 unit**

Prerequisite: Algebra 1

Requirement: AP Computer Science Principles exam, AP Computer Science Lab Honors linked course

Recommended: Grade of 75 or higher in Algebra 1 or completed Fundamentals of Computing

AP Computer Science Principles introduces students to the central ideas of computer science, inviting students to develop computational thinking vital for success across multiple disciplines.

The course is unique in its focus on fostering students to be creative and encouraging students to apply creative processes when developing computational artifacts. Students design and implement innovative solutions using an iterative process similar to what artists, writers, computer scientists, and engineers use to bring ideas to life. This course highlights the relevance of computer science by emphasizing the vital impact advances in computing have on people and society. By focusing the course beyond the study of machines and systems, students also have the opportunity to investigate innovations in other fields that computing has made possible and examine the ethical implications of new computing technologies.

Computer Programming 1 with Python ★ (LTC) **506400CW**
Grades 10, 11, 12 **1 unit**

Prerequisite: Fundamentals of Computing or AP Computer Science Principles

This course of study is designed to emphasize the fundamentals of computer programming. Topics include computer software, program design and development, and practical experience in programming, using modern, object-oriented languages.

Computer Programming 2 with Python (LTC) **506500CW**
Grades 12, 11 **1 unit**

Prerequisite: Computer Programming 1 with Java or Python

The course of study is designed to emphasize the fundamentals of computer programming. Topics include computer software, program design and development, and practical experience in

programming, using modern, object-oriented languages.

Computer Repair and Service ★ (LTC) **532000CW**
Grades 10, 11, 12 **1 unit**

Prerequisite: Algebra 1
Industry Credential Alignment: CompTIA A+, TestOut PC Pro

This course provides an in-depth study of the physical and logical architecture of a PC. Through hands-on and computer simulated activities, students assemble a computer; install and configure peripheral devices, operating systems and application software; and troubleshoot hardware and software problems. Students also study network principles, configuration and troubleshooting. After completing this course, students should be capable of successfully completing the CompTIA A+ examination series.

Cyber Security Fundamentals ★ (LTC) **537000CW**
Grades 11, 12 **1 unit**

Prerequisite: Fundamentals of Computing or AP Computer Science Principles or IT Fundamentals
Industry Credential Alignment: CompTIA Security+, TestOut Security Pro

Cyber Security Fundamentals introduces the core concepts and terminology of cybersecurity and information assurance. The course examines how the concept of security integrates into the importance of user involvement, security training, ethics, trust, and best practices management. The fundamental skills cover network security, testing, and validation; compliance and operational security; threats and vulnerabilities; application, data, and host security; access control and identity management; cryptography; and a broad range of other topics.

Fundamentals of Computing ★ **502300CW**
Grades 9, 10, 11, 12 **1 unit**

This course is designed to introduce students to the breadth of the computer science field through engaging topics such as web design, human computer interactions, and programming. Optional topics include mobile applications, robotics, and digital animation. Students develop critical thinking, logic, and problem solving skills relevant to today's technology. Rather than employing specific software tools or programming languages, Fundamentals of Computing focuses on the conceptual ideas of computing and helps students understand how certain tools

or languages may be utilized in problem solving.

Fundamentals of Web Design and Development ★ **503101CW**

Grades 9, 10, 11, 12 **1 unit**

This course will guide students in the development of websites in a project-based, problem-solving environment. Students will learn HTML, CSS, and basic scripting in a language like JavaScript in order to create websites that are well-organized, universally accessible, responsive, and easy to navigate. Students will learn the technological processes, requirements, and legal ramifications for publishing their websites. Students will learn how to create a portfolio of content-rich, well-styled websites. Successful completion of this course will prepare students for industry certification.

Advanced Web Design and Development ★ (LTC) **503300CW**

Grades 11, 10, 12 **1 unit**

Prerequisite: Fundamentals of Web Design and Development

This course focuses on scripting, developing searching strategies, publishing skills, and serving information on a web server. Students develop web pages that incorporate text, audio, video, and graphics using web authoring software, JAVA scripting, XHTML, and CSS. Students determine and employ methods to evaluate the design, functionality, and security of online information in various settings. This course teaches students how to use networks, including the Internet, for research and resource sharing.

Game Design and Development ★ (LTC) **535200CW**

Grades 11, 12 **1 unit**

Prerequisite: Fundamentals of Computing or AP Computer Science Principles

This course presents the major aspects of game design including character and world development, game playing, game genres, and theories and principles of game design. Students design, implement and present meaningful programs through a variety of media. Students identify task requirements, plan search strategies and use programming concepts to access, analyze, and evaluate information needed to design games.

IT Fundamentals ★ **502500CW**

Grades 9, 10, 11, 12 **1 unit**

Industry Credential Alignment: CompTIA IT Fundamentals

The IT Fundamentals course is designed to prepare the student to take the CompTIA IT Fundamentals certification exam. Instruction includes IT concepts, such as hardware, software, operating systems, networking, security, environmental safety, and alternative technologies. Students learn to set up a computer workstation, use basic software applications, configure computers and mobile devices to connect to home networks and the Internet, and analyze and solve problems within the IT industry.

Networking Fundamentals ★ (LTC) **531001CW**
Grades 10, 11, 12 **1 unit**

Prerequisite: IT Fundamentals or Computer Repair and Service
Industry Credential Alignment: CompTIA Network+, TestOut Network Pro

Networking Fundamentals provides students with classroom, laboratory, and hands-on experience in current and emerging networking technologies. Instruction is based on industry domains including network architecture; network operations; network security; network troubleshooting; industry standards, practices, and network theory; and workplace readiness and leadership skills. In addition, instruction and training are provided for the proper care, maintenance, and use of networking software, tools, and equipment.

Advanced Networking ★ (LTC) **531100CW**
Grades 11, 12 **1 unit**

Prerequisite: Networking Fundamentals
Industry Credential Alignment: CompTIA Network+, TestOut Network Pro

Advanced Networking provides students with classroom, laboratory, and hands-on experience in current and emerging networking technologies. Instruction is based on industry domains including network architecture; network operations; network security; network troubleshooting; industry standards, practices, and network theory; and workplace readiness and leadership skills. In addition, instruction and training are provided for the proper care, maintenance, and use of networking software, tools, and equipment.

Foundations of Animation (RBHS, LTC) **535000CW**

Grades 10, 11, 12 **1 unit**

Prerequisite: Another computer science credit - preferably Web Design. High school diploma computer science credit course

This course prepares students to use artistic and technological foundations to create animations. The basic principles of digital animation are reviewed, including character development and story conception through production. Students learn the technical language used in the animation industry and basic animation methods. They will also learn techniques about various ways to plan, create, and prepare for animation in pre-production, production and post-production. This course prepares students for the Adobe Certified Associate for Flash/Animate CC certification exam.

SCHOOL OF BUSINESS MANAGEMENT & INFORMATION SYSTEMS
MARKETING CLUSTER

Marketing Analytics CTE Completer Sequence

Required Courses:

Marketing

Marketing Analytics

AND one of the following (*) courses for a 3-course completer OR any two for a 4-course completer:

Accounting 1
Entrepreneurship*
Advertising
Merchandising
Social Media in Business*
Digital Workplace Applications*
Professional and Leadership Development*
Marketing work-based credit
Workplace Communications

Marketing Communications CTE Completer Sequence

Required Courses:

Marketing

Advertising or Digital Media Marketing

AND one of the following (*) courses for a 3-course completer OR any two for a 4-course completer:

Entrepreneurship*
Advertising*
Digital Media Marketing*
Social Media in Business*
Fundamentals of Web Page Design & Development*
Image Editing*
Digital Workplace Applications

Marketing work-based credit **Workplace Communications**

Marketing Management CTE Completer Sequence

Required Courses:
Marketing

Marketing Management

AND one of the following (*) courses for a 3-course completer OR any two for a 4-course completer:

Accounting 1*
Entrepreneurship*
Advertising
Introduction to Hospitality and Tourism (WKHS)
Business Law*
Business Finance*
Social Media in Business*
Digital Workplace Applications
Marketing work-based credit
Workplace Communications

Marketing Merchandising CTE Completer Sequence

Required Courses:

Marketing

Merchandising

AND one of the following (*) courses for a 3-course completer OR any two for a 4-course completer:

Fashion Marketing*
Entrepreneurship*
Advertising
Image Editing
Digital Publication Design
Social Media in Business*
Digital Workplace Applications
Fundamentals of Web Page Design*
Marketing work-based credit
Workplace Communications

Advertising (LTC, RBHS, WKHS) **547000CW**
Grades 12,11,10 **1 unit**

Prerequisite: Marketing or Marketing (with Sports and Entertainment E **1 unit**
Grades 10, 11, 12

Prerequisite: Marketing (RBHS, WKHS), Fashion Marketing (LTC)

The Advertising course is designed to introduce students to the world of advertising: marketing, creative concepting, analyzing different forms of media, planning and preparing campaign ads, and evaluating success. Students will also analyze and implement communication and career development skills in preparation for career-readiness.

Digital Media Marketing (PHS, RBHS, WKHS) **542200CW**
Grades 10, 11, 12 **1 unit**

Prerequisite: Marketing

This course is an overview of digital marketing media. Students plan and execute a storyboard for producing their final product, to include podcasts, DVDs, video blogs, and webcasts. Students focus on digital video techniques, sound, and lighting as well as perform basic editing functions while familiarizing themselves with the software's user interface. Topics include basic setup, adjusting and customizing preferences and settings, capturing video and audio, various editing and trimming techniques, audio editing and audio creation, finishing and final output. Students use software Final Cut Pro or Sony Vegas or Adobe Premiere.

Entrepreneurship **540000CW**
Grades 12, 11, 10 **1 unit**

This course is suggested for students who are considering opening their own business or having a career in business or marketing. Students enrolled in this class will be expected to perform activities that require problem solving and higher order thinking skills. Each student selects a type of business and develops a business plan to include financing, organization, management and marketing. They learn how to set up and operate a profitable business, starting with a business plan. This course helps them understand business operations, and provides them with

the techniques, skills, sources of data and detailed information needed to operate a profitable business. This course is a complementary course to all four Marketing Majors: Marketing Management, Merchandising, Marketing Communications, and Marketing Analytics.

Fashion Marketing (LTC) **541000CW**

Grades 12, 11, 10 **1 unit**

This course is designed to introduce students to some of the basic fashion principles within the retail industry and provide students with a general overview of factors that affect apparel selection. Course topics include fashion terminology, color and color schemes, silhouettes and body types, fiber and fabric construction, the fashion cycle and theories of fashion movement, and careers within the retail industry. Students also research the history of fashion and significant fashion designers. This course is largely project based and should help prepare students for a possible career within the retail industry. This course is a prerequisite for the Merchandising course needed to receive a Merchandising Major.

Marketing **542100CW**

Grades 12, 11, 10 **1 unit**

This course should be the first class students take in the Marketing program. It teaches the fundamentals of marketing and prepares students for careers in business, marketing, management and entrepreneurship. Students develop competencies in business fundamentals including human relations, communications, selling, promotion and financing. The instructional program emphasizes the competencies necessary for an individual to achieve success in advertising, buying, fashion merchandising, banking, tourism and business ownership. Students learn the importance of the free-enterprise system in a global economy and a strong work ethic. This course leads to four Marketing Majors: Marketing Management, Merchandising, Marketing Communications, and Marketing Analytics.

Marketing Analytics (LTC) **542300CW**

Grade 12, 11 **1 unit**

Prerequisite: Marketing or Marketing (with Sports and Entertainment Emphasis)
Industry Credential Alignment: Google Analytics

By conducting research, students explore trends, needs, and challenges within a given target market. Students use various research methods and technology to analyze findings and present recommendations to implement successful marketing research strategies. Students learn to

read data and make inferences that help to build marketing promotional plans and develop basic marketing strategies. This is a required course for the Marketing Analytics major.

Marketing Management (LTC, RBHS, WKHS) **543101CW**
Grades 12, 11 **1 unit**

Prerequisite: Marketing or Marketing (with a Sports and Entertainment Emphasis)
Industry Credential Alignment: Microburst Learning Employability Soft Skills

This course further prepares students for careers in business, marketing, management and entrepreneurship. It expands students' knowledge to make decisions concerning location, promotion, planning, pricing and competition. Students develop competencies in business fundamentals including human relations, communications, selling, promotion and financing. The curriculum stresses the importance of the free-enterprise system in a global economy and the American work ethic. The instructional program emphasizes the competencies necessary for an individual to achieve success in marketing fields such as advertising, buying, fashion merchandising, banking, tourism and business ownership. The skills developed in marketing help students pursue degrees in business administration, retailing, marketing and management. This is a required course for the Marketing Management major.

Merchandising (LTC, RBHS, WKHS) **543000CW**
(with a Fashion Emphasis at LTC) 1 unit
Grades 12, 11, 10
Prerequisite: Marketing (RBHS, WKHS), Fashion Marketing (LTC)

With a focus on fashion, students prepare to function as professional buyers of resale products and product lines for stores, chains, and other fashion-oriented retail enterprises. Topics include product evaluation, merchandising, applicable aspects of brand and consumer research, principles of purchasing, and negotiation skills. Students will prepare a fashion show that allows them to showcase their organizational and planning skills as well as highlight the fashion concepts studied throughout the semester. This is a required course for the Merchandising major.

Workplace Communications **504100CW**
Grades 10, 11, 12 **1 Unit**

The Workplace Communications course is designed to teach students to communicate in a clear, courteous, concise, complete, and correct manner on both personal and professional levels. Competency will be developed in oral, written, interpersonal, technological, and employment communication. Listening skills will be incorporated throughout the course. This course prepares students for the CEW: Professional Communications certification exam and serves as a preparation course for career readiness.

Social Media Marketing (LTC) **503400CW**
Grade 12, 11, 10 **1 unit**

Prerequisite: Marketing or Marketing (with a Sports and Entertainment Emphasis)
Industry Credential Alignment: Google AdWords

Social media has changed communication channels and created challenges for marketing in the digital age. Because of the change in technology and communication, marketing managers must take on a different approach. In this course, students will learn how businesses market on social media and how to create a social media strategy. Through lecture, discussions, and online simulation, students will learn about the optimal marketing strategy for social media. Topics that are discussed include the importance of influencers and brand advocates, the benefits of listening and aligning objectives with goals. This course introduces students to the current field of social media and prepares them to explore and create successful social media strategies for businesses. This course gives students the knowledge, tools, and methods to use different social media tools in order to educate and connect with customers, promote and sell products and services, and develop new business.

This course is a complementary course to all four Marketing Majors: Marketing Management, Merchandising, Marketing Communications, and Marketing Analytics.

SCHOOL OF ARTS AND HUMANITIES
EDUCATION AND TRAINING CLUSTER

Education and Training CTE Completer Sequence

Required Courses:
Introduction to Teaching 1
Introduction to Teaching 2

AND 2 of the following additional courses to meet program requirements:

CTE Dual Credit Teacher Cadet (same course as Teacher Cadet, different code)
Child Development 1
Child Development 2
Digital Workplace Applications
Entrepreneurship
Web Page Design and Development
Education and Training work-based credit

Introduction to Teaching 1 **570300CW**

Grades 10, 11, 12 **1 unit**

Introduction to Teaching Level 1 is designed to prepare students for employment and/or postsecondary opportunities in the education field. The program provides instruction in the teaching profession, communication skills, human growth and development, planning and instructional strategies, and school-societal relationships. Technology is integrated throughout the course work.

Please note that this course requires a final grade of 75 or higher or demonstration of mastery of industry skills to progress to Level II.

Introduction to Teaching 2 **570400CW**

Grades 11, 12, 10 **1 unit**

Prerequisite: Introduction to Teaching 1

Grade of 75 or higher in the prerequisite course or approved demonstration of industry skills.

Introduction to Teaching Level 2 is an advanced level course that builds on skills developed in Introduction to Teaching Level 1. Students develop a higher level of proficiency through authentic learning experiences. Students plan engaging lessons, enhance communication and presentation skills, explore school-societal relationships, and exhibit professionalism. Technology is integrated throughout the course work.

CTE Teacher Cadet (Dual Credit) **570500EW**

Grade 11, 12 **1 unit**

Students completing Intro to Teaching I, Intro to Teaching II and CTE Teacher Cadet may take the Praxis Part I at no expense to the student.

Requirement: Students must meet the following state requirements: an overall grade point average of 3.0 on a 4.0 scale (not Uniform Grading Scale) in a College Prep program of studies, a high class rank, five teacher recommendations, and a written essay.

This course is for four-year college bound students and students who plan to begin post-secondary education at a two- year institution and transfer to a four-year college. Emphasis is placed on analytical and interpretive skills. The course content focuses on introducing the profession of education and looks at all facets of education, K-12. Applicants are screened according to the admission criteria.

Note: Since Teacher Cadet is a dual credit course, students are required to pay a college registration fee which is not refundable if the course is dropped.

SCHOOL OF ENGINEERING, MANUFACTURING & INDUSTRIAL TECHNOLOGIES AGRICULTURE, FOOD & NATURAL RESOURCES CLUSTER

Environmental and Natural Resources Management CTE Completer Sequence

This program requires the following courses:

Required Path 1

Agricultural Science and Technology (2 Units–LTC) OR**

Agricultural Science and Technology for the Workplace (counts as one unit GHS & PHS) AND**

Environmental and Natural Resources Management (1 unit)

Required Path 2

Environmental and Natural Resources Management (1 unit) AND

Forestry OR

Wildlife Management

Horticulture CTE Completer Sequence

This program requires the following courses:

Required Path 1

Introduction to Horticulture (1 unit)**

Agricultural Science and Technology (2 unit–-LTC) OR**

Agricultural Science and Technology in the Workplace (1 unit GHS & PHS)**

Required Path 2

Introduction to Horticulture (1 unit) AND**
Landscape Technology (1 unit) OR
Nursery, Greenhouse, and Garden Center Technology

Plant and Animal Systems CTE Completer Sequence

This program requires the following courses:
Agricultural Science and Technology (2 unit – LTC) OR**
Agricultural Science and Technology in the Workplace (1 unit –GHS & PHS)**

Choose 3 courses from the following:
Animal Science (1 unit)
Introduction to Veterinary Science (1 unit)
Small Animal Care (1 unit)
Agriculture, Food & Natural Resources HN, work-based credit (1 unit)
Minimum of 4 **units = Completer
Minimum of 2 **units = Concentrator

Agricultural Mechanics and Technology CTE Completer Sequence
This program requires the following courses:
Agricultural Science and Technology (1– 2 units) AND**
Agricultural Mechanics and Technology (1 unit)**

Choose at least 2 courses below:
Agricultural Science and Technology for the Workplace (1 – 2 units)
Agriculture, Food and Natural Resources HN, work-based credit (1 unit)
Minimum of 4 **units = Completer
Minimum of 2 **units = Concentrator

Agricultural Science and Technology for the Workplace (LTC) 562000CD

Grades 9, 10, 11, 12 **2 units**

Industry Credential Alignment: Bayer Crop Science Plant Science Certification

This course addresses essential concepts and practices related to plant and animal life. These include biotechnology, conservation of natural resources, and the impact of agriculture on the environment. Personal and community leadership, safety, and agricultural mechanical technology are also included. This course paired with two credits in either Environmental and Natural Resources, Animal and Plant Systems, or Horticulture completes a major.

Agricultural Science and Technology (GHS, PHS) **562401CW**
Grades 9, 10, 11, 12 **1 unit**

This course is designed to teach essential concepts and understanding related to plant and animal life including biotechnology, the conservation of natural resources, and the impact of agriculture and natural resource utilization on the environment. Emphasis is placed on the role of agriculture in society and the importance of agriculture to the welfare of the world. Personal and community leadership, safety and agricultural mechanical technology are also covered. Each student is expected to design and participate in a supervised agricultural experience.

Agricultural Mechanics and Technology (GHS, PHS) **566001CW**
Grades 10, 11, 12 **1 unit**

Prerequisite: Agriculture Science and Technology

Agriculture Mechanics and Technology is designed as an introductory course to the Agriculture Mechanics Career Pathway. In addition, it provides development of general mechanical skills which are required in all areas of Agricultural Education. Typical instructional activities include hands on experiences in surveying, woodworking, metalworking, welding, small engine maintenance, basic farm and homestead improvements, participating in personal and community leadership development activities, planning and implementing a relevant school-to-work transition experience, and participating in FFA activities.

Agriculture Power Mechanics (GHS) **561001CW**
Grades 10, 11, 12 **1 Unit**

The courses in Agricultural Mechanics are designed to qualify the student completing the courses for job entry into farm, business, or industrial phases of agricultural mechanics or to continue advanced training in post high school education. A combination of subject matter and activities is designed to teach technical knowledge and skills for entry-level positions in selling, selecting, and

servicing agribusiness technical equipment and facilities, including computers, specialized software, power units, machinery equipment, structures and utilities. Typical instructional activities include hands-on experiences with agricultural power units; participating in personal and community leadership development activities; planning and participating in FFA activities. This is a list of core competencies to be completed in one year by each student enrolled in these courses. The teacher may select additional competencies based on a local needs assessment. Prerequisites: Agriculture Science, Agriculture Mechanics 1

Agriculture Mechanics Technology 2 HN (GHS) **560500HW**
Grades 12, 11 **1 unit**
Prerequisites: Agriculture Science, Agriculture Mech 1, Agriculture Power Mechanics

The courses in Agricultural Mechanics are designed to qualify the student completing the courses for job entry into farm, business, or industrial phases of agricultural mechanics or to continue advanced training in post high school education. A combination of subject matter and activities is designed to teach technical knowledge and skills for entry-level positions in selling, selecting, and servicing agribusiness technical equipment and facilities, including computers, specialized software, power units, machinery equipment, structures and utilities. Typical instructional activities include hands-on experiences with agricultural power units; participating in personal and community leadership development activities; planning and participating in FFA activities. This is a list of core competencies to be completed in one year by each student enrolled in these courses. The teacher may select additional competencies based on a local needs assessment.

Animal Science (LTC) **560800CD**
Grades 11, 10, 12 **2 units**

Prerequisite: All students and their parents/guardians are required to complete a medical information and release form.
Industry Credential Alignment: Elanco Fundamentals of Animal Science

Animal Science is designed to teach technical knowledge and skills for careers in an animal production enterprise. Students develop competencies including selection, breeding, physiology, nutrition, health, housing, feeding, and marketing of farm and companion animals. Courses that complete this major include Agricultural Science and Technology, Small Animal Care, and Introduction to Veterinary Science.

Cattle Production (GHS) **564600CW**
Grades 11, 10, 12 **1 Unit**
Prerequisites: Agricultural Science

The Cattle Production course is designed to teach technical knowledge and skills for entry-level positions in an animal production enterprise by developing competencies concerning the selection, breeding, physiology, nutrition, health, housing, feeding, and marketing of cattle. Typical instructional activities include hands-on experiences with the principles and practices essential in the production and management of cattle and cattle products for economic, recreational, and therapeutic uses; participating in personal and community leadership development activities; planning and implementing a relevant school-to-work transition experience; and participating in FFA activities.

Equine Science (LTC) **567900CW**
Grades 12, 11, 10, 9 **1 Unit**

The Equine Science course is designed to teach essential concepts and practical experience related to the care taking and production of horses. Instruction emphasizes knowledge and understanding of the importance of maintaining, selecting, and managing horses. Basic methods and safety techniques are included in this course. Typical instruction activities include hands-on experiences in saddling, bridling, grooming, and judging horses; feeding and health techniques; and housing design.

Equipment Operation & Maintenance (LTC) **562101CW**
Grades 12, 11, 10 **1 Unit**

This course is designed to teach students how to operate and maintain equipment commonly used in the agricultural industry. It includes equipment used in all four of the Agriculture, Food and Natural Resources pathways: Horticulture, Plant and Animal Systems, Environmental and Natural Resources Management and Agricultural Mechanics and Technology.

Environmental & Natural Resources Management **562600CW**
Grades 12,11,10,9 **1 Unit**

The Environmental and Natural Resource Management course is designed to be introductory course for the Environmental and Natural Resources pathway. The course is a combination of subject matter and planned learning experiences on the principles involved in the conservation and/or improvement of natural resources such as air, soil, water, land, forest, and wildlife for

economic and recreational purposes. Instruction also emphasizes such factors as the establishment, management, and operation of land for recreational purposes.

Environmental & Natural Resources 1 (LTC) **562800CD**
Grades 12, 11, 10, 9 **2 units**

This course offers a combination of topics addressing conservation and/or improvement of natural resources such as air, soil, water, and land for economic and recreational purposes. Instruction emphasizes the establishment, management, and operation of land. Activities include constructing a model watershed, analyzing the biological and physical aspects of the environment, and measuring soil, air, water, noise and solid waste at a selected site. Paired with this course, Agriscience and Technology, Wildlife Management, Forestry, and Outdoor Recreation complete a major.

Forestry (GHS, LTC, PHS) **564200CW**
Grades 12, 11, 10 **1 unit**

Prerequisite: Agriculture Science and Technology (GHS, PHS)

Learn technical knowledge and skills for entry-level positions in the production, protection, and management of forest resources! Get hands-on experiences with assessing environmental factors affecting forest growth; cruising timber; planting trees; managing an established forest; selecting, grading and marketing forest raw materials for conversion into a variety of consumer goods; harvesting timber or pulpwood; operating and maintaining equipment; managing forests for multiple-purpose uses such as game preserves and recreation; participating in personal and community leadership development activities; planning and implementing a relevant school-to-career transition experience.

Greenhouse Technology (GHS, PHS, LTC) **567200CW**
Grades 12, 11, 10 **1 unit**

Prerequisite: Agriculture Science and Technology (GHS, PHS)

This course teaches technical knowledge and skills for entry-level positions in the production, processing and distribution of flowers, foliage and related plant materials. The course focuses on best management practices in field and greenhouse production of flowers and related plant materials and the ornamental arrangement of plant materials.

Introduction to Veterinary Science (LTC) **561300CW**

Grades 12, 11, 10 **1 unit**

Prerequisite: All students and their parents/guardians are required to complete medical information and release form.

Industry Credential Alignment: Veterinary Medical Applications Certification

In this course, students explore the field of veterinary medicine and study the role of the veterinarian and veterinary technician in the diagnosis and treatment of animal diseases. Topics include veterinary terminology, anatomy and physiology, pathology, genetics, handling and restraint, and physical examinations along with common surgical skills. Students engage in laboratory activities and participate in shadowing and/or other work-based experiences.

Landscape Technology (PHS) **567000CW**

Grades 10, 11, 12 **1 unit**

Prerequisite: Agriculture Science and Technology (GHS, PHS)

This course is designed to qualify students for job entry in the landscaping field or to prepare students to continue advanced training in post-secondary education. A combination of subject matter and activities is designed to teach technical knowledge and skills for entry-level positions in selling, selecting and servicing. Students use a CAD program as well as standard drafting techniques for landscape design.

Small Animal Care (LTC) **561200CW**

Grades 12, 11, 10 **1 unit**

Prerequisite: All students and their parents/guardians are required to complete medical information and release form.

The Small Animal Care course prepares students with technical knowledge and skills for those interested in a career as a veterinarian, veterinary technician, or other companion animal industry

occupations. Typical instructional activities include hands-on experiences with cats, dogs, rabbits, fish, etc.; personal and community leadership development activities; and a relevant school-to-work transition experience.

Wildlife Management (GHS, LTC, PHS) **567400CW**

Grades 12, 11, 10, 9 **1 unit**

Prerequisite: Agricultural Science and Technology (GHS, PHS)

This course prepares students with technical knowledge and skills for entry-level positions in the conservation and/or management of wildlife enterprises. Instruction includes hands-on experiences while analyzing problems and developing site plans, including essential elements, concepts and skills related to wildlife management, understanding basic ecological concepts; implementing habitat management practices, identifying wildlife and fish species, analyzing policies, laws and regulations, using natural resources for outdoor recreation, participating in personal and community leadership development, and planning and implementing supervised agricultural experience.

SCHOOL OF ENGINEERING, MANUFACTURING & INDUSTRIAL TECHNOLOGIES
ARCHITECTURE & CONSTRUCTION CLUSTER

Architecture/Mechanical Design CTE Completer Sequence

This program requires four of the following courses:

Mechanical Design 1

Mechanical Design 2

Architectural Design 1

Architectural Design 2

Architecture work-based credit

Building Construction CTE Completer Sequence

This program requires the following courses:

Building Construction 1

Building Construction 2

Electricity CTE Completer Sequence

This program requires the following courses:
Electricity 1
Electricity 2

Architectural Design 1 (GHS, LTC, RBHS, WKHS) **617000CW**
Grades 10, 11, 12 **1 unit**

Prerequisite: Mechanical Design 1

Architecture is more than just the walls around us. The form and function of the spaces we live and work in are at the heart of how any design comes to life. This course investigates how the structure is designed and built as well as the layout of spaces between the walls. Students gain knowledge to implement their 2D design on paper into a 3D structure in a cad-specific program.. Building vocabulary and the fundamentals of design are stressed.

Architectural Design 2 (LTC, RBHS, WKHS) **617100CW**
Grades 12, 11, 10 **1 unit**

Prerequisite: Architectural Design 1

This course is a continuation of the concepts and skills learned in Architectural Design I. BIM and CAD computer programs are used to bring designs to life. Students design residential and commercial structures and produce a full set of architectural construction drawings. Students will also research styles and types of architecture.

Architectural Design 3— Honors (LTC)) **529918HW**
Grades 12, 11 **1 unit**

Prerequisite: Architectural Design 2
Industry Credential Alignment: SolidWorks Associate

This Center for Advanced STEM Studies elective course gives students the opportunity to enhance concepts learned from Architectural 1 & 2. Students will research and work collaboratively to develop a better understanding into architecture and design. The final project is to produce a portfolio to showcase their work. Post-secondary opportunities, college and career paths, field studies and design competitions are also incorporated.

Building Construction 1 (GHS, LTC, PHS*) **606000CD**
Grades 11, 10, 12 **2 units**

Industry Credential Alignment: OSHA 10

This course is part of the instructional program that prepares students to perform entry-level building construction tasks under the direction of a supervisor or an experienced craftsman. Primary instruction is given in basic carpentry, masonry, residential electricity and plumbing and safety practices.

Please note that this course requires a final grade of 75 or higher or demonstration of mastery of industry skills to progress to Level II.

***PHS schedules these two units individually as Building Construction 1 (60600CD) and Building Construction 2 (606100CD)**

Building Construction 2 (GHS, LTC, PHS*) **606100CD**
Grades 12, 11 **2 units**

Prerequisite: Building Construction 1
Grade of 75 or higher in the prerequisite course or approved demonstration of industry skills.

Industry Credential Alignment: NCCER

This course provides in-depth instruction on floor systems, wall framing, roofing and brick masonry. Students learn to read and interpret blueprints, sketches and building plans. Students may be eligible to participate in cooperative work experiences or apprenticeships, which combine career and technology training with supervised work experience in business and industry.

Please note that this course requires a final grade of 75 or higher and demonstration of mastery of industry skills to progress to Level III (Cabinet Making OR Project Management).

***PHS schedules these two units individually as Building Construction 3 (606200CD) and Building Construction 4 (606300CD)**

Cabinet Making (LTC) **608001CD**
Grade 12, 11 **2 units**

Prerequisite: Building Construction 2
Grade of 75 or higher in the prerequisite course or approved demonstration of industry skills.

This course introduces students to the fundamentals of cabinetmaking. Students learn how to apply veneers and plastic laminate on countertops and tabletops. Students use detailed shop plans to complete a layout and design of cabinets, cut and shape components, and assemble components to industry standards. Students apply various finishes to surfaces including lacquers, stains, polyurethane and other finishes. A practical application of this class is the installation of finished cabinets in the student house project completed by the Building Construction program.

Construction Project Management (LTC) **690100CD**
Grade 12, 11 **2 units**

Prerequisite: Building Construction 2 completed or concurrent and application

The curriculum of this course is designed to introduce students to the process of initiating, planning, executing, monitoring, and closing construction-related projects. Assignments align with the standards of the prerequisite Career and Technical Education (CTE) courses that build up to this capstone course. Students become familiar with the nine essential areas of Project Management through hands-on, accountable, project-based learning.

Construction Project Management students are responsible for managing the construction of the LTC student house under the supervision of their Building Construction instructor.

Electricity 1 (LTC) **628700CD**
Grades 11, 10, 12 **2 units**

Industry Credential Alignment: OSHA 10

This course begins the study of conduit bending; electrical theory; test equipment; introduction to the electrical code; safety in the workplace; residential, commercial and industrial wiring; and blueprint reading. Students work with hand tools and construct working electrical stations. Students participating in this program have the opportunity to become certified with the National

Center for Construction Education and Research (NCCER), a nationally recognized certification program. Students may be eligible to participate in cooperative work experiences or apprenticeships, which combine career and technical training with supervised work experience in business and industry.

Please note that this course requires a final grade of 75 or higher or demonstration of mastery of industry skills to progress to Level II.

Electricity 2 (LTC) **628800CD**
Grades 12, 11 **2 units**

Prerequisite: Electricity 1
Grade of 75 or higher in the prerequisite course or approved demonstration of industry skills.

Industry Credential Alignment: NCCER

This course begins the study of alternating current, electrical motors, grounding, conduit bending, cable trays, electrical services and electrical lighting. Students work with hand tools, power tools, blueprints and floor plans to construct a real house that is later sold to the public. The house must pass the building inspections process. Students participating in this program have the opportunity to become certified with the National Center for Construction Education and Research (NCCER). This is a nationally recognized certification program. Students may be eligible to participate in cooperative work experiences or apprenticeships, which combine career and technology training with supervised work experience in business and industry.

SCHOOL OF ENGINEERING, MANUFACTURING & INDUSTRIAL TECHNOLOGIES MANUFACTURING CLUSTER

Machine Technology CTE Completer Sequence

This program requires the following courses:

Machine Technology 1

Machine Technology 2

Welding CTE Completer Sequence

This program requires the following courses:

Welding Technology 1

Welding Technology 2

Recommended:

Welding Technology 3

Machine Technology 1 (LTC) **623000CD**
Grades 11, 10, 12 **2 units**

This course provides classroom instruction and lab experiences related to metalworking. It focuses on the operation of equipment such as the lathe, milling machine, grinders, drilling machines, precision measuring instruments and hand tools. Blueprint reading and math are important parts of the course. Students who register for this course should enjoy working with machines and making metal projects.

Please note that this course requires a final grade of 75 or higher or demonstration of mastery of industry skills to progress to Level II.

Machine Technology 2 (LTC) **623100CD**
Grades 12, 11 **2 units**

Prerequisite: Machine Technology 1
Grade of 75 or higher in the prerequisite course or approved demonstration of industry skills.

This course includes advanced instruction machining metal. The course focuses on milling machines, boring and drilling, the use of surface grinders, vertical and horizontal boring and drilling machines, basic study of CNC equipment and basic programming, job seeking, public relations and manufacturing facilities. Students may be eligible to participate in cooperative work experiences or apprenticeships, which combine career and technology training with supervised work experience in business and industry. These school-to-career programs must have prior approval by the instructor and the district's school-to-Career Coordinator.

Welding Technology 1 (LTC) **634000CD**
Grades 10, 11, 12 **2 units**

This course focuses on the physical properties of metals as well as the testing of welded joints. Students learn oxy fuel and plasma cutting. They also study welding techniques (shielded metal arc, gas metal arc, gas tungsten arc and flux core arc).

Students study safety issues, read blueprints and design projects.

Please note that this course requires a final grade of 75 or higher or demonstration of mastery of industry skills to progress to Level II.

Welding Technology 2 (LTC) **634100CD**
Grades 12, 11 **2 units**

Prerequisite: Welding Technology 1
Grade of 75 or higher in the prerequisite course or approved demonstration of industry skills.

Industry Credential Alignment: American Welding Society (AWS)

Welding 2 concentrates on the study of advanced cutting and welding techniques. Students fabricate projects from blueprints and design projects. Students may be eligible to participate in cooperative work experiences or apprenticeships, which combine career and technology training with supervised work experience in business and industry.

Please note that this course requires a final grade of 75 or higher and demonstration of mastery of industry skills to progress to Level III.

Welding Technology 3 (LTC) **634200CD**
Grade 12 **2 units**

Prerequisite: Welding 2
Grade of 75 or higher in the prerequisite course or approved demonstration of industry skills.

Industry Credential Alignment: Microburst Learning Employability Soft Skills

Welding Technology 3 students continue to study advanced welding processes. Students weld in all positions using SMAW, GMAW, GTAW, and FCAW. Students weld on carbon steel, stainless, and aluminum. Students learn destructive testing methods as well as visual testing methods. Students in this class learn how to obtain welding certifications in the (3G) and (4G) positions.

Students practice advanced cutting skills using Oxy-Fuel and Plasma cutting torches. Students fabricate projects from blueprints and weld them with multiple welding processes. Students can exempt up to nine (9) credit hours at Midlands Technical College upon successful completion of Welding 3 with approval from instructors.

SCHOOL OF ENGINEERING, MANUFACTURING & INDUSTRIAL TECHNOLOGIES
SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS CLUSTER

Core Engineering CTE Completer Sequence

This program requires four (4) of the following courses:

Intro to Engineering	**Engineering Technology**
Mechanical Design 1	**Materials Science**
Mechanical Design 2	**Advanced STEM Research**
Electronics for Engineers	**STEM work-based credit**

Advanced STEM Research— Honors (LTC) **609914HW**
Grades 11, 12 **1 unit**

Prerequisites: Engineering Technology and Mechanical Design 1
Recommended: Mechanical Design 2, Precalculus

This course is designed to be a capstone experience for the Center for Advanced STEM Studies. Students enrolled in this course conduct a SELF-DIRECTED project which consists of researching, designing, prototyping, building a project. It follows a complete product design cycle. Students will present their project to a committee of advisory members. The projects may include experimental research, patent searches, entrepreneurial ventures, packaging and marketing, and environmental and economic impacts. Research may include internships or externships with local engineering firms or institutions of higher education.

Electronics for Engineers
(Drones, Robotics, and Coding) - Honors (LTC) **609906HW**
Grades 11, 12 **1 unit**

Prerequisites: Algebra 1, C+ or better, Introduction to Engineering
Recommended: Algebra 2, Engineering Technology, Computer Programming 1

This exciting, fun, and hands-on Advanced STEM elective course focuses on the application of faerial and other drone technologies. Students will explore the software and sensors used to control drones, build and program a flying drone. Students will study electronics, aerodynamics, drone theory, and learn to fly drones while preparing for FAA Part 107 certification. We will explore racing, navigation, and commercial application of drones, one of the fastest growing fields and job opportunities in the near future.

Engineering Technology – Honors (LTC) **609910HW**
Grades 12, 11, 10 **1 unit**

Prerequisite: Introduction to Engineering and Mechanical Design 1

Recommendation: Mechanical Design 2

Industry Credential Alignment: REC Foundation (Robotics & Education Competition Foundation)

Students build skills for success in engineering through the use of the Engineering Design Process and Robotics. Students gain hands-on experience working in teams, using measurement tools and instruments, electrical circuits, and mechanical and fluid systems. Students will research, experiment, and build projects incorporating Science, Technology, Engineering, and Mathematical concepts (STEM) to model and solve engineering problems that mirror those encountered in business and industry.

Introduction to Engineering **637000CW**
Grades 9, 10, 11, 12 **1 unit**

This STEM course is a fun and exciting, hands-on introduction to engineering for all students. The course is project based and the focus is on: 3D Mechanical Design/Drafting and additive manufacturing (3D-Printing), using the Engineering Design Process to solve problems involving classical mechanics: Building Bridges (critical load), Cantilevers (center of mass and mechanics), Egg drop machines (force mitigation), Towers (structural integrity, wind forces), and other engineering projects. Students will also study basic electronics, material science, and careers in engineering (both 2 and 4 year college options). Communicating results and processes in writing and in the form of presentations and public speaking.

Materials Science – Honors (LTC) **609912HW**
Grades 12, 11, 10 **1 unit**

This Center for Advanced STEM Studies elective course features hands-on labs combining science, ingenuity, and creativity in a multidisciplinary approach to science and technology. Students learn about materials, materials uses and applications, scientific theories, and practical experiences that prepare them to work in a technologically-rich environment.

Sustainable Energy Solutions - Honors (GHS) **609915HW**
Grades 12, 11 **1 unit**

This course is designed to be a capstone experience for students in the Center for Advanced STEM Studies. Students enrolled in this course will conduct a self-directed project geared towards positively impacting the world around them through the use of clean energy. Students will learn about various forms of clean energy and will apply this knowledge to solving an environmental problem of their choosing. Through experimental research, students will determine appropriate ways to implement this solution in the daily life of the Gilbert Community. Research will include an externship on campus or at a local engineering firm to allow students the opportunity to experience content in action.

Biosystems Engineering (LTC) **569100CW**
Grades 10, 11, 12 **1 unit**

Prerequisite: *Future years will have Introduction to Engineering or teacher approval as a prerequisite.

Biosystems Engineering 1 is designed to teach essential concepts and understanding related to skills required to pursue a career in a biotechnology field focusing on living systems. Emphasis is placed on scientific research and how it can be used to create future advancements in bioengineering. This course will introduce students to principles of microbe, plant, animal, and biomaterial science and their applications to the field of engineering through studies in DNA sequencing, pathology, renewable energy, bioplastics, and genetically modified organisms. Additionally, the course teaches basic mechanical, engineering, and biotechnical laboratory skills.

SCHOOL OF ENGINEERING, MANUFACTURING & INDUSTRIAL TECHNOLOGIES
TRANSPORTATION, DISTRIBUTION & LOGISTICS CLUSTER

Auto Collision Repair Technology CTE Completer Sequence

This program requires the following courses:
Auto Collision Repair Technology 1
Auto Collision Repair Technology 2

Automotive Technology CTE Completer Sequence

This program requires the following courses:
Automotive Technology 1
Automotive Technology 2

Power Equipment Technology CTE Completer Sequence

This program requires the following courses:
Power Equipment Technology 1
Power Equipment Technology 2

Auto Collision Repair Technology 1 (LTC) **602000CD**
Grades 11, 10, 12 **2 units**

Medical Alert: Students with asthmatic conditions should be aware of dust and fume concerns.
Industry Credential Alignment: Automotive Service Excellence (ASE)

This course introduces the structure of the automobile and the use of all tools necessary for body panel repairs and refinishing. First-year students, focusing on basic repair skills, accomplish actual repair jobs. Hands-on skill development and production activities comprise three-fourths of the course with the remaining being spent in a formal classroom setting. Students participating in this program have the opportunity to become certified by ASE (Automotive Service Excellence) and in I-CAR (Inter-Industry Conference on Auto Collision Repair).

Please note that this course requires a final grade of 75 or higher or demonstration of mastery of industry skills to progress to Level II.

Auto Collision Repair Technology 2 (LTC) **602100CD**
Grades 12, 11 **2 units**

Prerequisite: Auto Collision Repair Technology 1
Grade of 75 or higher in the prerequisite course or approved demonstration of industry skills.

Medical Alert: Students with asthmatic conditions should be aware of dust and fume concerns.
Industry Credential Alignment: Automotive Service Excellence (ASE), I-CAR Certified Technician, S/P2

This course allows students to study paint finishes and, after proper proficiency is displayed, paint automobiles. Students learn the basic fundamentals of MIG welding. The measuring, pulling and straightening of collision cars is studied. Students also become proficient at shop management and damage estimating. Students participating in this program have the opportunity to become certified by ASE (Automotive Service Excellence) and in I-CAR (Inter-Industry Conference on Auto Collision Repair). Students may be eligible to participate in cooperative work experiences or apprenticeships, which combine career and technology training with supervised work experience in business and industry.

Automotive Technology 1 (LTC) **603000CD**
Grades 10, 11, 12 **2 units**

Industry Credential Alignment: Automotive Service Excellence (ASE)

This course teaches students to become proficient in the maintenance and repair of automobiles. Students will learn about automotive fasteners, gaskets, sealants, liquids and fluids, writing work orders, tire and wheel services, vehicle chassis lubrication, basic electrical systems, batteries, vehicle starting, charging systems, lighting systems, basic engine fundamentals, minor engine tune-ups and brake systems. Students need computer keyboarding skills to operate diagnostic equipment and access vehicle service manuals.

Please note that this course requires a final grade of 75 or higher or demonstration of mastery of industry skills to progress to Level II.

Automotive Technology 2 (LTC) **603100CD**

Grades 12, 11 **2 units**

Prerequisite: Automotive Technology 1
Grade of 75 or higher in the prerequisite course or approved demonstration of industry skills.

Industry Credential Alignment: Automotive Service Excellence (ASE)

This course teaches theory and principles of major engine tune-ups. Actual work experience includes: batteries and starting systems; alternators and charging systems; computer command controls and electronics; ignition systems; fuel supply and emission control systems; exhaust, lubricating and cooling systems; and car body electrical and accessory systems. Students conduct: chassis and suspension system repairs and services; computerized wheel alignment; and differential and drive-axle assemblies and services. Students may be eligible to participate in cooperative work experiences or apprenticeships, which combine career and technology training with supervised work experience in business and industry. Students who complete this program may be eligible to exempt AUT 105, AUT 106 and AUT 112 at Midlands Tech.

Power Equipment Technology 1 (LTC) **630001CD**
Grades 11, 10, 12 **2 units**

This course introduces students to small gasoline engines regardless of the level of knowledge on the subject. Practical application in the lab provides instruction on two and four stroke theory and repair under the supervision of an experienced mechanic. General safety and the proper use of tools and equipment associated with small gasoline engine repair are covered to keep students safe while working in the lab environment. Students receive training on small internal combustion engines used on portable equipment such as lawn mowers, chainsaws, rotary tillers, motorcycles, pumps and compressors. The training includes locating and solving problems, using specialized test equipment, overhauling the basic engine, and repairing or replacing engine systems.

Please note that this course requires a final grade of 75 or higher or demonstration of mastery of industry skills to progress to Level II.

Power Equipment Technology 2 (LTC) **630101CD**
Grades 12, 11 **2 units**

Prerequisite: Power Equipment Technology 1

Grade of 75 or higher in the prerequisite course or approved demonstration of industry skills.

Industry Credential Alignment: Yamaha Marine Certification

This course undertakes the study of more complex engines and power transmission systems. Students are involved with outboard and motorcycle repair as well as high-performance applications of small engines. Instruction in realistic shop situations is presented along with a thorough investigation of career opportunities. Students may be eligible to participate in cooperative work experiences or apprenticeships, which combine career and technology training with supervised work experience in business and industry.

SCHOOL OF HEALTH SCIENCE & HUMAN SERVICES
HEALTH SCIENCE CLUSTER

Health Science CTE Completer Sequence

Required Courses:
Health Science 1
Health Science 2

AND one of the following (*) courses for a 3-course completer OR any two for a 4-course completer:

rmerly Health Science 3)
Medical Terminology*
Health Science Clinical Study*
Pharmacology for Medical Careers
Sports Medicine 1
Sports Medicine 2
Sports Medicine 3
Principles of Biomedical Sciences
Human Body Systems*
Health Science work-based credit
Sports Medicine, work-based credit

Sports Medicine CTE Completer Sequence

Required Courses:
Sports Medicine 1
Sports Medicine 2

AND one of the following (*) courses for a 3-course completer OR any two for a 4-course completer:

Sports Medicine 3*
Sports Med work-based credit (Sports Med Clinicals)
Medical Terminology* (Honors or DE)
Health Science 1
Health Science 2
Human Structure, Function, and Disease*
Health Science, work-based credit
Pharmacology for Medical Careers
Principles of Biomedical Sciences
Human Body Systems

Health Science 1 **555001CW**
Grades 9, 10, 11, 12 **1 unit**

Prerequisite: Biology I completed or concurrent
Industry Credential Alignment: First Aid

Health Science 1 is the first of four rigorous courses offered to students interested in pursuing a career in the healthcare field. During this course, students are introduced to healthcare history, careers, law and ethics, cultural diversity, medical terminology and medical math, infection control, professionalism, communication, the basics of healthcare facilities and types of healthcare insurance. Students gain information on where health care has been, where it is going, and how professionalism and personal characteristics impact their success. The curriculum includes potential First Aid Certification. The skills and knowledge the students learn in Health Science 1 serve to prepare them to advance in all Health Science experiences.

Health Science 2 (Advanced Healthcare Applications) **555101CW**
Grades 10, 11, 12 **1 unit**

Prerequisite: Health Science 1 with grade of 75 or higher (as per SCDE)
Recommended: Grade of 75 or better in Health Science 1
Industry Credential Alignment: CPR

Health Science 2 applies the knowledge and skills while further challenging the students to learn more detail about the field of healthcare. Students begin learning basic skill sets associated with the medical profession and how to evaluate data obtained from the skills. Students apply and demonstrate medical terminology and medical calculations. Students in this course should further their knowledge of healthcare careers and future goals by participating in a job shadowing experience. The curriculum includes certification in CPR through the American Heart Association. This course provides a foundation for further advancement in Health Science. The course is based on HealthCenter21 curriculum and meets the National Consortium of Health Science Education Standards.

Human Structure, Function, and Disease (Formerly Health Science 3) **555201CW**

Grades 11, 12 **1 unit**

Prerequisite: Per SCDE, Health Science 1 or Sports Medicine 1 with a grade of 75 or higher

Human Structure, Function, and Disease focuses on the human body and disease. Students gain knowledge of all human body systems and how they work and the relationship that they have with disease from the healthcare point of view. This course emphasizes the study of disease, prevention, and treatment (Pathophysiology).

Students participate in teamwork activities for assigned projects. Medical Terminology is incorporated throughout the course. Skills in Health Science 2 are reinforced as each body system is studied.

Health Science Clinical Study— Honors **556000HD**

Grade 12 **2 units**

Prerequisite: Health Science 1, 2 & Human Structure, Function, and Disease (may be substituted with Project Lead the Way Human Body Systems, Medical Terminology, Anatomy & Physiology or AP Biology), and completion of application for screening process.

Recommended: Grade of 75 or better in Health Science 2 and Human Structure, Function, and Disease, or the substitution courses.

Industry Credential Alignment: CNA, CPR

Requirement: Documented negative tuberculin skin test annually or documented negative two-step. Documentation verifying three hepatitis B vaccinations or signed declination; two measles, mumps, rubella vaccinations; two varicella (chicken pox) vaccinations or serological immune status for rubella, rubeola, mumps and varicella. Prior to clinical rotation, students will be responsible for background check and drug screening. Students must provide transportation to healthcare facilities.

This course is designed to give students an opportunity to gain clinical experience. A combination of classroom instruction and work based experiences are used to prepare students for post-secondary education or employment in the health-care field. Students complete the development of their personal career portfolio and resume'. The students apply theory and skills to act ethically and within legal boundaries, communicate and relate to co-workers and patients, think critically and solve problems, and provide safe, effective care to patients in clinical areas such as hospitals, doctors' offices and long term care facilities. Recertification in American Heart Association CPR is included. Students are given at least 80 hours of classroom instruction and 20 hours of laboratory time.

The students access HealthCenter 21 online programs for beginning instruction for preparation of laboratory skills. The curriculum is based on the National Consortium of Health Science Education Standards. Upon completion of this course, students may be eligible to take the Nurse Aide Exam for certification. The Nurse Aide Exam fees are the responsibility of the student.

Medical Terminology Honors **554000HW**
Grades 11, 12 **1 unit**

Prerequisite: Biology 1

Medical Terminology is designed to develop students' working knowledge of the language of medicine. Students acquire word-building skills by learning prefixes, suffixes, roots and abbreviations. By relating terms to body systems, students learn the appropriate use of terms that are used in the medical environment. Medical Terminology may be used as an exemption for Health Science 3.

Medical Terminology AHS 102 (LTC) **554100EW**
Grades 12, 11 **1 unit**

Prerequisite: Biology 1

A dual credit version of Medical Terminology (AHS 102 Midlands Technical College) is

also available if student enrollment permits. Must take a placement test through MTC.

Pharmacology for Medical Careers (LTC, WKHS, PHS) **557002CW**
Grade 12 **1 unit**

Prerequisites: Chemistry and Algebra 2
Industry Credential Alignment: Pharmacy Technician Certification

Pharmacology for Medical Careers is a program designed for students interested in a medical career. The course introduces students to basic terminology, medications and their actions, laws affecting medication prescription, medical calculations, and basic operations of a pharmacy. Students are required to purchase access to the internet based program. Students will be eligible to take the Pharmacy Tech Certification exam after graduation. The Pharmacy Technician Board Exam fees are the responsibility of the student.

Note: The cost of the national curriculum program used in this course is $300.00.

Sports Medicine 1 **555500CW**
Grades 10, 11, 12 (Open to grade 9 at GHS, LHS, PHS, WKHS) **1 unit**

Industry Credential Alignment: Sports Nutrition, Sudden Cardiac Arrest, Concussion for Student Athletes, Performance Enhancing Drugs, Sports Psychology, Basic Life Support

This course is an introduction for students interested in career opportunities available as athletic trainers, physical therapists and physicians in the sports medicine field. Students learn basic anatomy and physiology as it relates to principles of conditioning and the treatment of athletic injuries. Instruction also includes CPR/AED, first aid and taping. General principles for the prevention, care and rehabilitation of injuries are emphasized during practicums.

Sports Medicine 2 **555600CW**
Grades 10, 11, 12 **1 unit**

Prerequisite: Sports Medicine 1
Industry Credential Alignment: OSHA

This course is designed as a continuation of Sports Medicine 1 for students interested in career opportunities available as athletic trainers, physical therapists and physicians in the sports medicine field. Students are instructed in basic body anatomy and physiology as it relates to principles of conditioning and the treatment of athletic injuries. Students study both protective

and supportive devices used in prevention and care of athletic injuries.

Sports Medicine 3 (LHS,PHS,WKHS) **555700CW**
Grades 11, 12 **1 unit**

Prerequisite: Per SCDE, Sports Med. 1 & 2 with a grade of 75 or higher plus Basic Life Support (BLS) certification
Recommendation: Complete Medical Terminology, Health Science 3, or Anatomy & Physiology prior to this course

This course emphasizes the student's ability to apply concepts from previous Sports Medicine course work to real-world situations and scenarios. A priority will be placed on understanding the current research and evidence based practices affecting the practice of Sports Medicine professionals. Students will develop policies, procedures, and guidelines based on these aspects, as well as explore detailed treatment and rehabilitation procedures for common athletic injuries. Students are expected to participate in clinical situations either at school with their athletic department or in an outside clinical setting for real world experience.

Sports Medicine Clinical (work-based credit) **559100CW**
Grades 11, 12 **1 unit**

Prerequisite: Sports Medicine 1 and 2, current CPR/AED certification

This course emphasizes work-based experiences to prepare students for postsecondary education in the field of sports medicine and other allied health fields. The course combines instruction in the school's athletic training facility with the certified athletic trainer(s) and a six-week (60 hours) work-based experience off campus with a sports medicine specialists(s) including but not limited to physicians, athletic trainers, physical therapists, occupational therapists, massage therapists, registered dietician, etc. Students must complete 180 hours of combined instruction. Students are evaluated using the grading criteria established for work-based credit courses. Click here to access the Sports Medical Clinical internship application. Please complete this and submit it to your school career specialist.

SCHOOL OF HEALTH SCIENCE & HUMAN SERVICES
HUMAN SERVICES CLUSTER

Cosmetology CTE Completer Sequence

This program requires the following courses:

Cosmetology 1
Cosmetology 2
Cosmetology 3
Cosmetology 4

Family and Consumer Sciences CTE Completer Sequence

Required Courses (two or three of the following- minimum of two):

Child Development I
Child Development II
Food and Nutrition I
Food and Nutrition II
Sports Nutrition

AND if needed, one of the following can serve as third required course:

Culinary Arts Management I
Intro to Teaching I
Personal Finance

Child Development 1 (LHS) **580000CW**
Grades 9- 12 **1 unit**

Industry Credential Alignment: First Aid/CPR

This course is designed to provide students with information and experiences that give them a sound positive insight into parenting roles and responsibilities. Topics include preparing for effective parenthood, guiding the healthy development of children, and using community resources in the fulfillment of parenting roles and responsibilities.

Child Development 2 (LHS) **580100CW**
Grades 10–12 **1 unit**

Industry Credential Alignment: First Aid/CPR

This course approaches the study of human growth and development from conception through school age. The care and guidance of young children relative to the physical, social, emotional and mental developmental tasks are stressed. Efforts are made to incorporate guided observation and participation with young children and their parents in order to promote confidence in responding to young children. Competencies gained prepare students for parental roles involving care and nurturing of children.

Cosmetology 1 (LTC) **615000CD**
Cosmetology 2 (LTC) **615100CD**
Grade 11 **4 units**

To become a cosmetologist, the State Board of Cosmetology requires students to pass a theory test and a practical test of skills. Students must complete Cosmetology 1 and 2 and Cosmetology 3 and 4, and pass the exam to receive a cosmetology license from the South Carolina Department of Labor, Licensing and Regulation Board. After the 2-year program, students must pass a theory test as well as a practical test with a 75%. They study electricity, chemistry, anatomy and physiology, diseases and disorders of the scalp, hair, skin, and nails, safety, as well as the normally expected skills of how to cut, style, braid, perm, relax, and color. The process to be admitted to the program is competitive, and the two-year process is rigorous. Personal appearance care service workers participate in continuing education and training at salons, cosmetology schools and product shows. Students assist individuals with their personal appearance including shampooing, cutting, coloring and styling hair. Students learn to give manicures, pedicures, scalp treatment, facials and makeup analyses. Students clean and style wigs and hairpieces.

Please note: A rubric is utilized to determine students admitted to Cosmetology. Consumable supplies for this course range between $300 and $325. In addition, each Level 1 and 2 student must purchase a personal kit for approximately $400. Though any student can complete the cosmetology program, students must possess a valid Social Security number in order to obtain a South Carolina Cosmetology license issued by the South Carolina State Board.

Cosmetology 3 (LTC) **615200CD**
Cosmetology 4 (LTC) **615300CD**
Grade 12 **4 units**

Prerequisite: Cosmetology 1 and 2
Industry Credential Alignment: Cosmetology State Board Exam

Personal care services students continue an in-depth study of hairstyling, haircutting, chemical services, skin and nails. Cosmetology 3 and 4 provides preparation for passing the written and practical exam for the South Carolina license from the South Carolina Department of Labor, Licensing and Regulation Board. These courses are equal to nine months of private school training at a cost of $18,000–$22,000.

Foods and Nutrition 1 (LHS) **582400CW**
Grades 9, 10, 11, 12 **1 unit**

This course concentrates on the principles and relationships of nutrition and well-being. Safety and sanitation, food preparation and management, meal planning, food costs and responsible consumer behavior are stressed during guided instruction, independent study and laboratory experiences.

Foods and Nutrition 2 (LHS) **582501CW**
Grades 10, 11, 12 **1 unit**

Prerequisite: Foods and Nutrition 1

This course is a continuation of Foods and Nutrition 1. It provides students with more in-depth knowledge of individual and family health, fitness, and wellness. Responsible consumer behavior, ethnic and multicultural foods, healthy meal planning, selection and preparation, and safety and sanitation are stressed during guided instruction, independent study and laboratory experiences.

Sports Nutrition 1 (LHS) **575900CW**
Grades 9, 10, 11, 12 **1 unit**

Sports Nutrition 1 is designed for all students. This course examines the relationship between nutrition, physical performance, and overall wellness. Students will learn how to choose nutritious foods for healthy lifestyles and peak performance. Health and disease prevention through nutrition, physical activity, and wellness practices are essential components of the course. Sports Nutrition 1 is a prerequisite for Sports Nutrition 2.

Sports Nutrition 2 (LHS) **576000CW**
Grades 10, 11, 12 **1 Unit**

Prerequisite: Sports Nutrition 1

Sports Nutrition 2 is an essential course in advancing the knowledge base of nutritional needs for the active population. This course emphasizes the metabolic process and management of food choices for optimal health and physical performance. Students will be challenged with rigorous real-world projects by developing personal fitness and nutrition plans for athletes and teams.

SCHOOL OF LEADERSHIP & PUBLIC SERVICES
LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY CLUSTER

Emergency and Fire Management Services CTE Completer Sequence

This program requires the following courses:

Firefighter 1

Firefighter 2

Law Enforcement Services CTE Completer Sequence

This program requires the following courses:

Law Enforcement Services 1

Law Enforcement Services 2

Firefighting Program Overview:

Fire service training for youths over the age of 16 is recognized by the fire service in the State of South Carolina as a valuable means for recruiting and retaining future volunteer and career firefighters. The course materials for both Firefighter I and II will follow International Fire Service Training Association's Essentials of FireFighting, 6th Edition training manual. Students will learn and perform all skills required by the South Carolina Fire Academy for certification such as; carrying and climbing 14', 24', & 35' ladders, work on an elevated roof prop, search, rescue, and fire attack in hazardous conditions (fire, smoke, heat, low visibility) with appropriate protective equipment in a monitored training environment.

The program will incorporate online coursework, traditional classroom instruction, and skill based training. To prepare students for the strength and physical needs of the job tasks required for the program, the course will also include weekly physical fitness training.

Requirements for participation in the program: (1) 16 years of age at the start of the program; (2) a signed waiver by a parent or guardian understanding the course requirements and hazards associated; (3) a signed medical clearance by a physician (sports physical); (4) registration with the local junior explorer program. All forms will be sent home with the student during the first week of class.

Firefighter 1 (LTC) **651400CD**
Grades 11, 12,10 **2 Units**

Prerequisite: *Must be 16 years of age* at the start of the class.

Required Coursework for Successful Firefighter 1 Completion: (1) First Aid/CPR/AED, (2) Hazardous Materials Awareness-level training (3) Hazardous Materials Operations (HMO)-level training, (4) Fundamentals of Firefighting & Firefighter 1.

The course will use online and traditional instructional methods and is designed to take the student to the level of Firefighter I, the first level of firefighter as recognized by the National Fire Protection Association (NFPA) and certified by the International Fire Service Accreditation Congress (IFSAC) and National Board on Fire Service Professional Qualifications (ProBoard). The student cannot qualify to take the certification exam if he or she is unable to meet the full requirements for becoming a professional firefighter.

Subjects include: fire behavior, fire extinguishers, personal protective equipment, SCBA, ladders, fire hose, fire streams, search and rescue, interior fire attack and self-survival as well as building construction, ropes and knots, forcible entry, ventilation, water supply, salvage, overhaul, communications, fire prevention, and community risk reduction.

Please note that this course requires a final grade of 75 or higher or demonstration of mastery of industry skills to progress to Level II.

Firefighter 2 (LTC) **651500CD**
Grades 12, 11 **2 Units**

Prerequisite: Successful completed NFPA Firefighter I & must be 16 years of age prior to the beginning of class. Coursework to be completed by the end of the program: (1) Vehicle Extrication & (2) Firefighter II.
Grade of 75 or higher in the prerequisite course or approved demonstration of industry skills.

Industry Credential Alignment: NFPA Firefighter 2

This course is designed to take the student to the final level of firefighter, Firefighter II as recognized by the National Fire Protection Association (NFPA) and certified by the International Fire Service Accreditation Congress (IFSAC) and National Board on Fire Service Professional Qualifications (ProBoard). The student cannot qualify to take the certification exam if he or she is unable to meet the full requirements for becoming a professional firefighter.

Subjects include: incident management, building collapse and special rescue, hose tools and appliances, hydrant flow and operability, fire detection and alarm systems, fire cause, pre-incident planning, reports and communications, and coordinating fire attack.

Law Enforcement Services 1 (LTC) **651001CD**
Grades 11, 10, 12 **2 units**

This course is designed to provide the student with a foundational knowledge of the law enforcement system with specific emphasis placed on policing and modern police practices and techniques Upon completion of this course the student will be able to define and demonstrate the application of key terms and techniques used in the law enforcement field.

Please note that this course requires a final grade of 75 or higher or demonstration of mastery of industry skills to progress to Level II.

Law Enforcement Services 2 (LTC) **651101CD**
Grades 12, 11 **2 units**

Prerequisite: Law Enforcement 1
Grade of 75 or higher in the prerequisite course or approved demonstration of industry skills.

Industry Credential Alignment: Microburst Learning Employability Soft Skills

This course is designed to expand on the knowledge learned in Law Enforcement Services 1 with greater emphasis placed on practical problem solving using modern police techniques and tactics.

CENTER FOR ADVANCED STUDY COURSES

Pelion High: ADVANCED AGRIBUSINESS RESEARCH

White Knoll High: PUBLIC HEALTH AND ADVANCED MEDICAL STUDIES
River Bluff High: LAW AND GLOBAL POLICY
MEDIA, ARTS, DESIGN AND PRODUCTION
Lexington High: INTERNATIONAL BACCALAUREATE PROGRAM
Lexington Technology Center: ADVANCED STEM STUDIES

INTERNATIONAL BACCALAUREATE PROGRAM

Quick Guide to Registering for the Lexington One IB Diploma Program
LHS IB Program Website

LITERATURE (GROUP 1)

The Literature curriculum begins the summer before 11th grade with a mandatory reading assignment of one or two novels. Specific instructions will be distributed to students prior to the summer break.

Literature HL HL-1 301B00IW (Grade 11) HL-2 301C00IW (Grade 12)
Prerequisite: English 1/English 2/English 3
This course is designed to develop independent critical competency in the study of American and World Literature. IB English fosters a high level of achievement in writing, reading, and speaking. The authors and literary works studied are chosen from the IB Prescribed List (PWL) for Literature HL. Students will prepare written and oral analyses of the literary works studied. Writing assignments will include general exposition and research preparation for the extended essay. IB assessments include two in-depth written assignments and two oral presentations over the two-year period. At the end of the course, students take the Literature HL Exam.

LANGUAGE-B (GROUP 2)

The Language B courses offered are designed for foreign language learners and focuses principally on the interaction between speakers and writers of the target language. The aim of the course is to prepare students to use the language appropriately in a range of situations and contexts and for a variety of purposes. The course also allows students to develop an awareness and appreciation of the culture(s) of the countries in which the target language is spoken.

Course Description for Language-B SL Courses:
Building on skills acquired in the previous courses, students expand their grammatical knowledge and skill in complex structures and increase their vocabulary through a deeper insight into the people and their culture. Through a more extensive practice in listening, us historyspeaking, reading, and writing, students strengthen their proficiency in self-expression and develop a deeper comprehension of the language. Students are examined internally and

externally on oral and written assignments, which include individual and group performance, listening skills, and literary analysis.

At the completion of the course students are required to sit for the Language-B SL Exam.

Choose ONE:

Language-B SL, (French) 361J00HW (Grade 11) 361G00IW (Grade 12)
Prerequisite: French 1/French 2; French 3 Honors

Language-B SL, (German) 362J00HW (Grade 11) 362G00IW (Grade 12)
Prerequisite: German 1/German 2; German 3 Honors

Language-B SL, (Spanish) 365J00HW (Grade 11) 365G00IW (Grade 12)
Prerequisite: Spanish 1/Spanish 2; Spanish 3 Honors

Language-B Classical Languages SL, (Latin) 363D00HW (Grade 11) 363A00IW(Grade 12)
Prerequisite: Latin 1/Latin 2; Latin 3 Honors

It is important that students understand both the serious dedication of a college level course and the quality of the material studied. The IB curriculum brings students into contact with Roman writers of a more sophisticated and mature level than they have heretofore encountered. Students are examined internally and externally on oral and written assignments which include individual and group performance, listening skills, and literary analysis. At the completion of the course students are required to sit for the Latin SL Exam.

INDIVIDUALS AND SOCIETY (GROUP 3)

IB US History 336D00IW Grade 11
History HL 336C00IW Grade 12

This two-year course contains both United States History and 20th Century World History topics. The first year is the United States history component called IB US History. The student will take the stated mandated United States History End of Course Test at the end of the first year. The second year concentrates on topics of 20th Century World History. Included in those will be: The Move to Global War (1919-1939), Causes and Effects of 20th Century Wars, and Authoritarian States (20th Century). At the end of the course, students are tested on the content of both years in the IB exam. A portion of the final IB score is derived from the Historical Investigation written in the second year.

And Choose One of the Following:

Economics, SL 335A00HW (Grade 11) 335A00IW (Grade 12)
Prerequisite: Algebra 2
This course, offered at both the higher and standard levels, is designed to develop: disciplined economic reasoning skills; an ability to apply the tools of economic analysis to situations and data and to explain the findings clearly; an understanding of how individuals and societies organize themselves in the pursuit of economic objectives; an ability to evaluate economic theories, concepts, situations and data in a way which is considered rational and unprejudiced; international perspectives which feature a tolerance and understanding of the diversity of economic realities in which individuals and societies function. This course also aims to provide students with core knowledge of economics, encourage critical thinking, promote awareness and understanding of internationalism, and recognize their tendencies for bias. While students focus on the basic principles of economics, they need to employ the scientific method in discovering the application of these principles to the everyday world. This requires that they incorporate elements of history, geography, psychology, sociology, political studies as well as math and science. World citizenship is enhanced as they gain an understanding of world economies, developing economies, and our responsibility in aiding and sharing with other economies.
Assessments are conducted using a combination of tests, quizzes, and timed writings, research, presentations, and seminars. At the end of the course, students take the Economics SL Exam.

Psychology, SL 334A00HW (Grade 11) 334A00IW (Grade 12)
Prerequisite: Algebra 2
The course of study for IB Psychology focuses on the systematic study of human behavior and the mental and experiential factors that influence behavior. Students develop an understanding of the historical roots of psychology as well as an appreciation for the diversity of the human experience. Through the study of the three major perspectives in psychology – biological, behavioral, and cognitive – students focus on the skills of critical thinking and the methods of empirical investigation that are the hallmarks of psychology. This course introduces the systematic and scientific study of the behavior and mental processes of human beings and other animals. It includes a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students also learn about research methodology and ethics that psychologists use in their science and practice. Attention is given to ethical procedures and issues throughout the course.
Assessments are conducted using a combination of tests, quizzes, and timed writings, research, presentations, and seminars. At the end of the course, students take the Psychology SL Exam.

EXPERIMENTAL SCIENCES (GROUP 4)
Biology
This course is designed to convey to students the role of biological sciences in their life and assist students with developing inquiry skills based on biological methodology. While focusing

on these areas the students gain an international awareness of the biological sciences through an in-depth study of the multicultural scientists who have shaped the world of biology, research of international diseases and their origins, an in-depth look at global environmental issues, as well as an investigation of the impact of biological sciences on different cultures.
Students are assessed using a variety of tests, quizzes, essays, student presentations, lab reports, research, and in addition to the IB program's internal and external assessment.

Chemistry
The purpose of the courses is to provide an introduction to chemistry using a logical presentation of the content combined with a focus on the following concepts: Stoichiometry, Atomic Theory, Periodicity, Bonding, States of Matter, Energetics, Kinetics, Equilibrium, Acids and Bases, Oxidation and Reduction, and Organic Chemistry. Students explore additional options in content beyond the core curriculum.
Laboratory activities are crucial to the learning process to provide students with an opportunity to design experiments, investigate matter and energy, and to develop the skills needed to present information to the global scientific community.
Students have numerous opportunities to analyze data and to critique all aspects of the laboratory process. The format includes a variety of instructional methods including class discussion, individual and group experiments, computer aided labs and learning, and lecture.
Assessments include unit tests, quizzes, lab reports, the Internal Assessment of practical scheme of work, the Group 4 Project, and various other projects and activities in preparation for the External Assessment.

Choose One of the Following:

Biology, HL HL-1 322B00IW (Grade 11) HL-2 322C00IW (Grade 12)
Prerequisite: Honors Biology 1/Chemistry 1
This course is designed to convey to students the role of biological sciences and assist students with developing inquiry skills based on biological methodology. While focusing on these areas, students gain an international awareness of the biological sciences through an in-depth study of the multicultural scientists who have shaped the world of biology, research of international diseases and their origins, an in-depth look at global environmental issues, as well as an investigation of the impact of biological sciences on different cultures.
Students are assessed using a variety of tests, quizzes, essays, student presentations, lab reports, and research in addition to the IB program's internal and external assessment.

Chemistry HL HL-1 323B00IW (Grade 11) HL-2 323C00IW (Grade 12)
Prerequisite: Honors Biology I/Chemistry 1
The curriculum includes 135 hours of core instruction and an additional 44 hours of optional instruction (options are chosen by the teacher). For the External Assessments, students are expected to complete Paper 1 – 40 multiple-choice questions from the core and options; Paper 2 –a data based question, several short answer questions, and two extended response questions

from the core; and Paper 3 – short answer questions and an extended response question for each option studied.

MATHEMATICS (GROUP 5)

Choose ONE:

Mathematics Applications and Interpretations SL
311G00HW (Grade 11) 311B00IW (Grade 12)
Prerequisite: Algebra 1 or Algebra 1 HN, Algebra 2 or Algebra 2 HN, and Geometry or Geometry HN

Recommended: AP Statistics or Probability and Statistics, Grade of 80 or better in previous math courses
This course is designed to provide students with varied mathematical backgrounds and abilities the opportunity to learn critical techniques in applied mathematics and statistics. Students gain an understanding of a wide variety of mathematical topics, preparing them to solve problems in a variety of settings while developing more sophisticated reasoning and critical thinking skills. They study algebra, statistics and probability, logic and set theory, geometry, trigonometry, mathematical modeling and differential calculus. These studies are suitable for students interested in careers in the arts and humanities, leadership and public services, and policy-making, and world languages.
Students completing this course should be able to communicate clearly and confidently, using mathematics in a variety of contexts to solve problems in many disciplines. The course emphasizes using technology accurately, appropriately, and efficiently to explore new ideas and to solve problems. Students are required to investigate unfamiliar situations involving organizing and analyzing measurements, drawing conclusions, testing their validity, while considering their scope and limitations.

Mathematics Analysis and Approaches SL
311I00HW (Grade 11) 311F00IW (Grade 12)
Prerequisites: Algebra 1 Honors, Algebra 2 Honors, Geometry Honors, plus Probability and Statistics Theory (or AP Statistics)

Recommendation: AP Statistics or Probability and Statistics, Grade of 80 or better in previous Math courses.
This course is designed for students who already possess a sophisticated knowledge of mathematical concepts and the ability to recall, select and use their knowledge in both real and abstract contexts to solve problems. Student's interested in taking this course will pursue further studies having significant mathematical content, like economics, finance, or marketing; business management; and human services; and information technology. This course prepares students to

transform common realistic contexts into mathematics through the creation of models and constructions—described with standardized notation. Students learn to make conjectures and draw conclusions based on logical argument, deduction and inference. The course explores algebra, circular functions and trigonometry, vectors, statistics and probability, and both differential and integral calculus.
In addition to two examination papers, the student's internal assessment component offers a framework for developing, independence in their mathematical learning by engaging in extended inquiry and modeling.

THE ARTS

Visual Arts, HL HL-1 351C00IW (Grade 11)HL-2 351D00IW (Grade 12)
Grades: 11, 12 (Semesters: 4)
2 units
Prerequisite: Honors 2-D Design/3-D Design
In addition to the general information provided above, candidates assemble a summative portfolio with a minimum of thirty (30) quality artworks and complete a minimum of eight (8) journals reflecting their exploration and endeavors throughout the Diploma Programme journey. Two- dimensional artworks are matted while three-dimensional artworks are presented on pedestals and in cases for external evaluation of merit.

THEORY OF KNOWLEDGE (TOK)

Theory of KnowledgeTOK HN1 373A00HH (Grade 11)
TOK HN2 373B00HH (Grade 12)
This is a required course within the Diploma Programme, which spans one semester in the junior year and one semester in the senior year. Credit for the course is not given until successful completion of the senior year.
Students reflect on and question the bases of knowledge. Through a range of reading assignments and discussion, students become aware of the diverse beliefs within the school environment as well as around the world. They also learn to evaluate beliefs and make interdisciplinary connections by investigating the areas of knowledge: natural sciences, human sciences, history, arts, ethics, and mathematics. In addition, they are able to identify values underlying and knowledge claims pertinent to local and global issues. Assessments include a college-level essay and required presentations.

Dual Enrollment Courses

*Not all schools will offer the same courses each semester. It is imperative that you speak with your school counselor early in the planning process to discuss your options and course availability. Applications are also required and deadlines must be met with the college or university.

Tab 2