

9th Grade Literature and Composition

Course Number: 23.0610000—Year long—1 Credit

Ninth Grade Literature and Composition is a study of literary genres. Students will continue to develop vocabulary and apply effective reading strategies to a wide variety of literary and informational texts; to learn characteristics of basic literary genres, including the novel, short story, poetry, drama, and nonfiction; to establish effective writing and research habits; and to refine language skills as they apply to writing, listening, speaking, and viewing.

Honors 9th Grade Literature and Composition

Course Number: 23.0610040—Year long—1 Credit

This course requires a teacher recommendation, which may be based on the following: approved writing, standardized test scores, and academic achievement. The honors level course has higher expectations and more rigorous coursework than the college preparatory level, including mandatory summer reading and written responses to literature. Ninth Grade Literature and Composition Honors is a study of literary genres. Students will continue to develop vocabulary and apply effective reading strategies to a wide variety of literary and informational texts; to learn characteristics of basic literary genres, including the novel, short story, poetry, drama, and nonfiction; to establish effective writing and research habits; and to refine language skills as they apply to writing, listening, speaking, and viewing.

10th Grade Literature and Composition

Course Number: 23.0620000—Year long—1 Credit

Tenth Grade Literature and Composition is organized thematically. Students will continue to develop vocabulary and apply effective reading strategies to a wide variety of literary and informational texts. They will learn about universal themes and symbols common to literary works, including the novel, short story, poetry, drama, and nonfiction. Students will continue to build on effective writing and research habits as they refine language arts skills which they will apply to writing, listening, speaking, and viewing.

Honors 10th Grade Literature and Composition

Course Number: 23.0620040 Year long—1 Credit

This course requires a teacher recommendation, which may be based on the following: approved writing, standardized test scores, and academic achievement. The honors level course has higher expectations and more rigorous coursework than the college preparatory level, including mandatory summer reading and written responses to literature. Tenth Grade Literature and Composition Honors is organized thematically. Students will continue to develop vocabulary and apply effective reading strategies to a wide variety of literary and informational texts. They will learn about universal themes and symbols common to literary works, including the novel, short story, poetry, drama, and nonfiction. Students will continue to build on effective writing and research habits as they refine language arts skills which they will apply to writing, listening, speaking, and viewing.

11th Grade Literature and Composition

Course Number: 23.0510000 Year long—1 Credit

American Literature and Composition is a study of the major literary topics, themes, and movements in the history of the United States from pre-colonial times to present day. Students will focus on major literary forms of the emerging nation, analyze literary themes and trends, and both research and compose several papers, speeches, and presentations, using representative forms of discourse.

Advanced Placement English Language and Composition American Literature

Course Number: 23.0530010—Year long—1 Credit

This course is a study of rhetoric and the power of language, as well as a thematic study of significant works in American literature and genres of writing. Students must demonstrate mastery of written expression that includes analysis of authors' styles, including tone, diction, syntax, rhetorical patterns, and use of figurative language. The majority of works studied will be non-fiction. Students are required to complete summer assignments between their sophomore and junior year. The College Board administers a culminating assessment, including multiple-choice questions and free response composition that could result in earned college credits.

Newspaper I

Course Number: 23.0320000—Year long

This year-long course is an introduction to newspaper writing and publishing. Students use computers to write and edit articles and to prepare layouts for the school newspaper, *The Chariot*, which is published monthly. Juniors and seniors must complete the application process through the English department.

Newspaper II and III

Course Number: 23.0330000 and 23.0350000—Year long

This program is a continuation of the journalism series. Students take supervisory positions in the publication of the paper.

Annual/Yearbook I

Course Number: 23.0320007—Year long

This course provides an introduction to the writing and layout of the high school yearbook, *Vantage Point*. Students must apply. Students must have computer and/or photography skills or be willing to be trained.

Annual/Yearbook II and III

Course Number: 23.0330007 and 23.0350007—Year long

This is a continuation of Annual I. Students supervise the publication of the yearbook.

Journalism/Literary Magazine I

Course Number: 23.0320008—Year long

Literary Magazine participation provides students with an opportunity to experiment with various forms of creative verbal and visual expression. Students gather and critique entries for publication of the literary magazine, *The Pulse*. Students also learn the basics of graphic design and gain hands-on computer experience.

Journalism/Literary Magazine II and III

Course Number: 23.0330008 and 23.0350008—Year long

A continuation of Literary Magazine I that provides students with leadership opportunities as well as more in-depth computer design experience.

Contemporary Literature and Composition

Course Number 23.0660001 Semester—Juniors and Seniors only

Students compare, contrast and evaluate modern texts, novels, poetry, drama and prose with contemporary Internet, television and film texts, and progressively incorporate and refine reading, writing, critical thinking, listening, oral presentation, and research skills. Contemporary Literature and Composition is a study of modern topics and themes as they appear in literary and informational texts and multi-media formats. Students will continue to develop vocabulary and apply effective reading strategies to a wide variety of literary and informational texts; to learn about universal themes common in literary works including the novel, short story, poetry, drama, and nonfiction; to establish effective writing and research habits; and to refine language skills as they apply to writing, listening, speaking, and viewing.

CCGPS Coordinate Algebra

Course Number: 27.0971000—Year long

The fundamental purpose of Coordinate Algebra is to formalize and extend the mathematics that students learned in the middle grades. The critical areas, organized into units, deepen and extend understanding of linear relationships, in part by contrasting them with exponential phenomena, and in part by applying linear models to data that exhibit a linear trend.

Coordinate Algebra uses algebra to deepen and extend understanding of geometric knowledge from prior grades. The final unit in the course ties together the algebraic and geometric ideas studied. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

CCGPS Coordinate Algebra Support

Course Number: 27.0981000—Year long

Students recommended for this course will complete the course concurrently with CCGPS Coordinate Algebra. The contents of this course supplements the CCGPS Coordinate Algebra curriculum and provide students with additional review of basic math skills. This course is strongly recommended for students not meeting the standards set forth in 8th grade math CRCT. It is also encouraged for students who minimally met the standards, and for students who have historically had difficulty with math.

Accelerated CCGPS Coordinate Algebra Honors

Course Number: 27.0975040—Year long

The fundamental purpose of Accelerated CCGPS Coordinate Algebra is to formalize and extend the mathematics that students learned in the middle grades. The critical areas, organized into units, deepen and extend understanding of linear relationships, in part by contrasting them with exponential phenomena, and in part by applying linear models to data that exhibit a linear trend. Coordinate Algebra uses algebra to deepen and extend understanding of geometric knowledge from prior grades. The next unit in the course ties together the algebraic and geometric ideas studied.

The study of similarity leads to an understanding of right triangle trigonometry and connects to quadratics through Pythagorean relationships. The study of circles uses similarity and congruence to develop basic theorems relating circles and lines and rounds out the course. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

CCGPS Analytic Geometry

Course Number: 27.0972000—Year long

The focus of Analytic Geometry on the coordinate plane is organized into 6 critical areas. Transformations on the coordinate plane provide opportunities for the formal study of congruence and similarity. The study of similarity leads to an understanding of right triangle trigonometry and connects to quadratics through Pythagorean relationships. The study of circles uses similarity and congruence to develop basic theorems relating circles and lines. The need for extending the set of rational numbers arises and real and complex numbers are introduced so that all quadratic equations can be solved. Quadratic expressions, equations, and functions are developed; comparing their characteristics and behavior to those of linear and exponential relationships from Coordinate Algebra. The link between probability and data is explored through conditional probability. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. **Prerequisite: CCGPS CCGPS Coordinate Algebra**

CCGPS Analytical Geometry Support

Course Number: 27.0982000—Year long

Students recommended for this course will take the course concurrently with CCGPS Analytical Geometry. This course will supplement the curriculum of the CCGPS Analytical Geometry course and provide students with additional review. Low achieving students in CCGPS Coordinate Algebra are encouraged to enroll in this course. Also, students who were enrolled in CCGPS Coordinate Algebra Support are also encouraged to enroll for this course.

Accelerated CCGPS Analytic Geometry Honors

Course Number: 27.0976040—Year long

The focus of Accelerated CCGPS Analytic Geometry Honors is organized into 10 critical areas. The need for extending the set of rational numbers arises and real and complex numbers are introduced so that all quadratic equations can be solved. Quadratic expressions, equations, and functions are developed; comparing their characteristics and behavior to those of linear and exponential relationships from Coordinate Algebra. They apply methods from probability and statistics to draw inferences and conclusions from data. Students expand their repertoire of functions to include polynomial, rational, and radical functions. They expand their study of right triangle trigonometry to model periodic phenomena. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. **Prerequisite: Coordinate Algebra Honors**

CCGPS Advanced Algebra**Course Number: 27.0973000—Year long**

In the Advanced Algebra course, the students pull together and apply the accumulation of learning that they have from their previous courses, with content grouped into six critical areas, organized into units. They apply methods from probability and statistics to draw inferences and conclusions from data. Students expand their repertoire of functions to include polynomial, rational, and radical functions. They expand their study of right triangle trigonometry to model periodic phenomena. And, finally, students bring together all of their experience with functions and geometry to create models and solve contextual problems. **Prerequisite: Geometry**

CCGPS Advanced Algebra Support**Course Number: 27.0983000—Year long**

Students recommended for this course will take the course concurrently with CCGPS Advanced Algebra. This course will supplement the curriculum of the CCGPS Advanced Algebra course and will provide students with additional review. This course is strongly recommended for low achievers in CCGPS Coordinate Algebra or CCGPS Analytical Geometry, or for students who are enrolled in CCGPS Coordinate Algebra Support or CCGPS Analytical Geometry Support.

MATH 1111 College Algebra**Course Number: 27.0640400**

Emphasizes techniques of problem solving using algebraic concepts. Topics include fundamental concepts of algebra, equations and inequalities, functions and graphs, and systems of equations; optional topics include sequences, series, and probability or analytic geometry.

CCGPS Pre-Calculus**Course Number: 27.0977000—Year long**

Pre-Calculus focuses on standards to prepare students for a more intense study of mathematics. The critical areas organized in seven units delve deeper into content from previous courses. The study of circles and parabolas is extended to include other conics such as ellipses and hyperbolas. Trigonometric functions are further developed to include inverses, general triangles and identities. Matrices provide an organizational structure in which to represent and solve complex problems. Students expand the concepts of complex numbers and the coordinate plane to represent and operate upon vectors. Probability rounds out the course using counting methods, including their use in making and evaluating decisions. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

Prerequisite: Advanced Algebra or Analytic Geometry Honors

CCGPS Pre-Calculus Honors**Course Number: 27.0977040—Year long**

Pre-Calculus focuses on standards to prepare students for a more intense study of mathematics. The critical areas organized in seven units delve deeper into content from previous courses. The study of circles and parabolas is extended to include other conics such as ellipses and hyperbolas. Trigonometric functions are further developed to include inverses, general triangles and identities. Matrices provide an organizational structure in which to represent and solve complex problems. Students expand the concepts of complex numbers and the coordinate plane to represent and operate upon vectors. Probability rounds out the course using counting methods, including their use in making and evaluating decisions. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

Prerequisite: Accelerated Analytic Geometry Honors

Advanced Decision Mathematical Decision Making**Course Number: 27.0850000—Year long**

This course will give students further experience with statistical information and summaries, methods of designing and conducting statistical studies, and opportunity to analyze various voting processes, modeling of data, basic financial decisions and use network models for making informed decisions.

Prerequisite: CCGPS Advanced Algebra

Advanced Placement Calculus AB**Course Number: 27.0720010—Year long**

Advanced Placement Calculus AB 27.0720010 Year This course follows the College Board syllabus for the AP exam and is a college level mathematics course. This course covers one semester of college calculus. Calculus is the mathematics of change and motion and the concepts are based on infinite process. AP Calculus examines problems in 4 ways: graphically, numerically, analytically, and in written expression. Topics include properties of functions and graphs, limits and continuity, differential calculus, and integral calculus. All students enrolled in AP Calculus AB are required to take the AP Examination in May if they are passing this course prior to the AP Examinations.

Prerequisites: Approved application and an A/B average in Honors

Pre-Calculus or an A average in Advanced Algebra and Trigonometry with teacher recommendation.

Advanced Placement Calculus BC

Course Number: 27.0730010—Year long

This course follows the College Board syllabus for the AP exam and is a college level mathematics course. This course covers two semesters of college calculus. Calculus is the mathematics of change and motion and the concepts are based on infinite process. AP Calculus examines problems in 4 ways: graphically, numerically, analytically, and in written expression. Topics of AP Calculus AB are covered and additional topics covered in BC Calculus include vector functions, parametric equations, conversions, parametrically defined curves, tangent lines, sequences and series, integration techniques, and calculus of polar equations. All students enrolled in AP Calculus BC are required to take the AP Examination in May if they are passing this course prior to the AP Examinations. **Prerequisites: Approved application and an A average in Honors Pre-Calculus**

Advanced Placement Statistics

Course Number: 27.0740010—Year long

This course follows the course description written by the College Board, culminating in the Advanced Placement Examination in Statistics. This is a college level mathematics course. The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: 1 Exploring Data: observing patterns and departures from patterns 2 Planning a Study: Deciding what and how to measure 3 Anticipating Patterns: Producing models using probability and simulation 4 Statistical Inference: Confirming models. It is important to understand that students must be able to explain their answers using arguments, graphs, and statistical skills that they will learn in the course. All students enrolled in AP Statistics are required to take the AP Examination in May. **Prerequisite: Approved application with teacher recommendation and an A/B average in Honors Algebra II or an A average in Algebra II**

JOINT ENROLLMENT COURSES Georgia Tech

Georgia Tech Calculus II Math 1502—Course Number: 27.0750405—First Semester: CALCULUS 2—This course concludes the treatment of single variable calculus and begins linear algebra – the linear basis of multivariable theory.

Georgia Tech Calculus III Math 2401 - Course Number: 27.0750406 Second Semester CALCULUS 3—The second semester is a study of multivariable calculus including linear approximation and Taylor's theorems, Lagrange multiples and constrained optimization, multiple integration and vector analysis including the theorems of Green, Gauss, Stokes. **Prerequisite: Students must apply and be admitted to Georgia Tech to take these courses. Students must have taken AP Calculus and passed the AP Calculus Exam as follows: AP Calculus BC with a score of 3 or higher on the AP exam; AP Calculus AB with a score of 5 on the AP exam.**

Biology

Course Number: 26.0120000—Year long

Biology is a two semester course in which the student will develop scientific process skills and laboratory techniques, research skills, develop an understanding of the nature of biology, cellular biology, matter and energy relationships, and biochemistry, genetics the theory of evolution, the diversity of life (classification system), the human body, and ecology.

Honors Biology

Course Number: 26.0120040—Year long

Honors Biology is a course designed for the advanced academic student who has the ability to critically analyze and apply biological concepts, the ability to gain information on the scientific processes through critical reading, and one who possesses strong organizational skills. This challenging course focuses on cytology, ecology, genetics, evolution, taxonomy, microbiology, botany, and zoology. **Prerequisite: Teacher recommendation. Corequisite: Enrollment in CCGPS Accelerated Coordinate Algebra or higher.**

Physical Science

Course Number: 40.0110000—Year long

This course explores the physical aspects of the world. Topics covered include an understanding of the atom; nature, classification and naming of matter; characteristics and components of radioactivity; arrangements of the Periodic Table; phases of matter and molecular motion; properties of solutions; transformations and flow of energy; force, mass and motion; properties of waves; properties of electricity and magnetism.

Chemistry

Course Number: 40.0510000—Year long

Topics covered will include the nature of matter and its classifications; atomic theory and the characteristics of atoms; the effects the motion of atoms and molecules have in chemical and physical processes; the organization of the periodic table and how to use it to predict properties of elements; how atoms combine to make chemicals and then recombine in chemical reactions; factors that can affect chemical reactions; characteristics of acids, bases, and solutions; other topics as time allows.

Honors Chemistry

Course Number: 40.0510040 Year

Skills needed for this course are the ability to apply past learning to new concepts; the demonstration of abstract and higher level thinking; the ability to perform algebraic manipulations easily; the ability to read critically; self-motivation; and experience in writing formal lab reports. Topics covered in this year long course are characteristics of science, the nature and classification of matter, stoichiometry, conservation of matter, the atom, the atomic theory, the periodic table, and reaction rates.

Physics

Course Number: 40.0810000—Year long

The course provides students with the necessary knowledge and skills in physics. Physics extends the physical sciences to more abstract concepts including interactions of matter and energy, velocity, acceleration, forces, energy, momentum, thermodynamics, charge, electricity, magnetism, waves, light, optics, and subatomic physics. The subject is treated both conceptually and mathematically. Concepts are investigated through laboratory experiences and fieldwork designed for students to develop appropriate knowledge and skills in science as inquiry. **Prerequisite: Chemistry or Physical Science with a teacher recommendation and CCGPS Analytical Geometry or higher.**

Environmental Science

Course Number: 26.0611000—Year long

Environmental Science integrates the study of many components of our environment, including the flow of energy and the cycling of matter, the interconnection of all life, the stability and change in ecosystems, conservation and resource allocation, and evaluation of human activity and technology. Instruction focuses on student data collection and analysis and interpretation of data gathered on global concepts. **Prerequisite: Physical Science or Chemistry**

AP Environmental Science

Course Number: 26.4620010 – Year long

This year-long course is designed to be the equivalent of a one semester introductory college course in environmental science. It provides students with the scientific principles, 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 following themes constitute this environmental science course: science is a process; energy conversions underlie all ecological processes; the earth itself is one interconnected system; humans alter natural systems; environmental problems have a cultural and social context; and human survival depends on developing practices that will achieve sustainable systems. The three-hour exam is divided equally between the multiple-choice section and a free-response, which emphasizes the application of principles in greater depth. **Prerequisite: 3 years of science including Biology, Chemistry, Physics and Teacher Recommendation, Application**

Earth Systems

Course Number: 26.0640000—Year long

Earth Systems is designed to investigate the connections among Earth's systems through Earth's history. These systems - the atmosphere, hydrosphere, geosphere, and biosphere - interact through time to produce the Earth's landscapes, ecology and resources. This course develops the explanations of phenomena fundamental to the sciences of geology and physical geography, including the early history of the Earth, plate tectonics, landform evolution, the Earth's geologic record, weather and climate, and the history of life on Earth. **Prerequisite: Physical Science or Physics.**

Human Anatomy and Physiology

Course Number: 26.0730000—Year long

This year-long course is an in-depth study of the human body. Students investigate the systems of the body in detail. This course is valuable for students interested in allied health careers, psychology, and physical education. Students will be expected to dissect organs and animals. **Prerequisite: Biology, Chemistry, Teacher recommendation.**

Honors Human Anatomy and Physiology

Course Number: 26.0730040—Year long

This year-long course is an in-depth study of the human body. Students investigate the systems of the body in detail. This course is valuable for students interested in allied health careers, psychology, and physical education. Students will be expected to dissect organs and animals. **Prerequisite: Biology, Chemistry, Teacher recommendation**

Astronomy

Course Number: 40.0210000—Year long

This year-long course is an introduction to the concepts of modern astronomy, the origin and history of the Universe and the formation of the Earth and the solar system. Students will compare the Earth's properties with those of the other planets and explore how the heavens have influenced human thought and action. The course gives a description of astronomical phenomena using the laws of physics. The course treats many standard topics including planets, stars, the Milky Way and other galaxies, black holes to more esoteric questions concerning the origin of the universe and the evolution and fate. **Prerequisite: Physical Science or Physics and teacher recommendation**

Forensic Science

Course Number: 40.0930000—**Year long**

The Forensic Science curriculum is designed to build upon science concepts and to apply science to the investigation of crime scenes. It serves as a fourth year of science for graduation. Students will learn the scientific protocols for analyzing a crime scene, how to use chemical and physical separation methods to isolate and identify materials, how to analyze biological evidence and the criminal use of tools, including impressions from firearms, tool marks, arson, and explosive evidence. This is a case-based course emphasizing inquiry learning. **Prerequisite:** **Biology, Chemistry and Physics, or Biology, Physical Science and Environmental Science**

Advanced Placement Computer Science A

Course Number: 26.4140010—**Year long**

This year long course is designed to be the equivalent of a one semester-long college introductory course in programming. The course is geared toward preparing students to take the College Board's Advance Placement Exam. Major emphasis is on programming using the language JAVA, in programming methodology and problem solving. **Prerequisite:** **Completed Algebra II with a B or better. Note: This course will count for the fourth year of science for the classes of 2012 and after.**

Advanced Placement Biology

Course Number: 26.4140010—**Year long**

This year-long course is designed to be the equivalent of a college level introductory biology course usually taken by biology majors during their first year of college. The course covers both fundamental and advanced topics in biology. The course includes extensive laboratory experience designed to demonstrate biological concepts and develop a mastery of laboratory science skill and knowledge. Several AP biology labs are held after school throughout the school year due to the time required to complete the lab and student attendance is required. The College Board AP Examination for biology includes a 10 minute reading period along with a 90 minute free response section that requires students to demonstrate an understanding of biological concepts and analyze data or information drawn from the laboratory experience. The free response section of the exam counts 40% of the overall exam score. In addition to the free response section, the AP biology exam includes an 80 minute, 100 item multiple-choice section that examines the student's specific content knowledge of biology and it counts 60% of the overall exam score. **Prerequisite:** **Biology, Chemistry, Teacher Recommendations, Application**

Advanced Placement Chemistry

Course Number: 40.4530010—**Year long**

This course provides students the opportunity to attain a depth of understanding of fundamentals and a reasonable competence to deal with chemical problems. The course also develops the students' abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic. An extensive laboratory experience is provided for all Advanced Placement Chemistry students. The first part of the AP exam constitutes 45% of the final grade and covers broad factual knowledge. The second part constitutes 55% of the final score and requires the student to demonstrate reasoning abilities by the application of chemical principles to problem solving learned in the laboratory and in the classroom. The examination devotes 90 minutes to multiple-choice questions and 90 minutes to selected problems, short essays, and chemical reactions. **Prerequisite:** **Biology, Chemistry, Teacher Recommendation**

Advanced Placement Physics 1: Algebra-Based

Year long—This course is the equivalent to a first semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits. We will add some content to give a little bit broader exposure to physics topics and make sure students are ready for AP Physics C: EMAG. We will not add so much that we cannot teach with fidelity to new course goals. No exposure to Physics is required. Recommended prerequisites: Honors Biology, Honors Chemistry, Honors Math. Recommended co-requisite: Honors PreCalculus.

Advanced Placement Physics 2: Algebra-Based

Year long— This course is equivalent to a second semester college course in algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; and atomic and nuclear physics. This is not a first year course in physics. **Recommended Prerequisites:** **Honors Biology, Honors Chemistry, Physics or AP Physics 1.** **Recommended co-requisite:** **Honors PreCalculus.**

Advanced Placement Physics C

Course Number—**40.4840010**—**Year long**

This is a “second-year” physics course, which is taken concurrently with Calculus. It is designed for students who intend to specialize in engineering or physical sciences. The exam devotes 90 minutes to multiple-choice questions and 90 minutes to free response. Prerequisites: Biology, Chemistry, Physics, Teacher Recommendation, Application. **It is recommended the student take AP Physics B as their first year physics course. Corequisite: AP Calculus.**

American Government/Civics

Course Number : 45.0570005 Semester

American Government is a semester long class that focuses on the political structure and decision-making process in the United States at the local, state and national level. It will address citizenship and helps develop problem-solving skills. The course includes specific facts, basic concepts, analytical questions and generalizations associated with the U.S. Constitution, federal government, democracy, politics, laws, international affairs and the rights and responsibilities of citizens. Students will gain a working knowledge of the political system in the United States and to understand their role as active participants in the formation of public policy.

World History

Course Number: 45.0830000—Year long

World History is a year-long course that traces the development of civilization from its beginning to the modern day. Students will identify the basic elements of civilizations and trace the transition from the ancient world to the modern. Students will gain knowledge of geography, recognize patterns and connections, and practice critical thinking skills. A strong emphasis is placed on relating historical events to current conditions. Throughout the school year students will gain a global perspective of the events that helped create the society in which they live today. This course is required for graduation and is typically completed in the 10th grade.

United States History

Course Number: 45.0810000—Year long

United States History is a year-long class that is organized chronologically but it also focuses on themes of American democratic heritage, reform movements, and global interdependence. In the first semester, connections are made with the enduring social, economic, and political issues covering the settlement of North America through the early twentieth century. The semester includes an exploration of the development of and challenges to democracy as well as an analysis of national growth and reform. Second semester focuses on the emergence of the United States as a world power, its participation in the World Wars and the cold war, social change, and the role of the United States in the modern world. This course includes a state mandated End of Course Test (EOC). This course is required for graduation and is typically completed in the 11th grade.

Economics

Course Number: 45.0610001—Semester

Economics is a semester long survey of the American economic system covering units on Fundamentals, Microeconomics, Macroeconomics, International and Personal Finance concepts. Included in the course is a comparison of economic models and graphic analysis. The goal of the course is to prepare students to be effective business people, employees and consumers. This course includes a state mandated End of Course Test (EOC). This course is required for graduation and is typically completed in the 12th grade.

Sociology

Course Number: 45.0310003—Semester

Sociology is the systematic study of the development, structure, interaction, and collective behavior of organized groups of human beings. Students will be introduced to a new way of critically thinking about and analyzing society called the sociological perspective. Key topics include the study of culture and social structure; socialization and deviance; social institutions such as family, education, religion, economy, government, health care, and media; sociological research methods; and social inequalities and change. Students will also investigate contemporary influences on society, such as sport, social media, race, and technology including exploring current social issues and problems facing our society. This is a one-semester elective course in the Social Studies department and is included in calculating the HOPE Scholarship. **Prerequisite: Junior or Senior**

Advanced Placement Human Geography

Course Number: 45.0770010—Year long

This in-depth course focuses on the cultures, practices, and contributions of various countries and their cultures. As they learn about humankind's relationship with its environment, students study about such topics as: population patterns; cultural similarities and differences; political boundaries; urban growth; and the modern agricultural revolution.

Prerequisite: Freshman only

Advanced Placement United States Government and Politics

Course Number: 45.0520011—Year long

This course introduces students to the high school AP program. The course is designed to assist students in becoming knowledgeable about the Constitution, the varied political beliefs and behaviors that have shaped U.S. government and the role of political parties and interest groups. It also looks at the organization and powers of Congress, the Presidency, the bureaucracy and the federal courts and the development of civil rights. This course satisfies the US Government requirement and **is offered to seniors only.**

Advanced Placement Microeconomics

Course Number: 45.0630011—Semester

The Advanced Placement course in Microeconomics provides 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 of the role of government in promoting greater efficiency and equity in the economy. This is part of a year-long course, coupled with AP Macro in the spring.

Prerequisite: Senior

Advanced Placement Macroeconomics

Course Number: 45.0620011—Semester

The second course in economics, Advanced Placement Macroeconomics, deals with the economy as a whole with emphasis on national income accounting, economic performance measures, and international economics. This is part of a year-long course, coupled with AP Micro in the fall. This course satisfies the economics graduation requirement and is typically completed in 12th grade. This course includes a state mandated End of Course Test (EOC).

Advanced Placement U.S. History

Course Number: 45.0820010—Year long

The Advanced Placement course in United States History is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. History. The class prepares students for intermediate and advanced college courses. Students will learn to assess historical materials—their relevance to a given interpretive problem, their reliability, and their importance—and to weigh the evidence and interpretations presented in historical scholarship. Advanced Placement United States History pushes students to develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format. Extensive reading outside of class is required. This course includes a state mandated EOC. This course satisfies the US History graduation requirement and is typically completed in 11th grade.

Advanced Placement World History

Course Number: 45.0811010—Year long

The purpose of this course is to develop students' understanding of the patterns and effects of interaction and change among societies and regions; the effects of technology, economics and demography on people and the environment; systems of social structure; cultural, intellectual and religious developments; and changes in the function and structure of states and political identities. Periodization forms the organizing principle for dealing with change and continuity throughout the course. This course uses a college level text and requires extensive reading outside of class, writing skills, and that students use higher order thinking skills to synthesize the curriculum. This course satisfies the World History graduation requirement and is typically completed in 10th grade.

Advanced Placement Psychology

Course Number: 45.0160010—Year long

This course introduces students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students learn about the major subfields of psychology including research methodology; the biological basis of behavior; sensation and perception; learning; cognition; motivation and emotion; developmental psychology; personality; intelligence; and abnormal psychology. The various units of this multi-disciplinary study require that students be able to understand concepts from both a hard science and social science perspective. Critical thinking and excellent writing skills are a must. This is an academic elective.

Prerequisite: Junior/Senior

Advanced Placement Government/Politics: Comparative

Course Number: 45.0530011—Semester

The object of this course is to introduce students to the broad field of comparative politics as well as to teach students the specifics about the conduct of politics in various countries. This course will look at politics in three very different kinds of settings: advanced industrial societies, communist or former communist systems and developing or Third World countries. Six countries will be used in order to help further comprehension of these settings: Great Britain, Russia, China, Nigeria, Mexico, and Iran. By looking at more than one country within each setting, students will see the substantial variations that exist within as well as across different categories of political systems. Throughout the course students will look successively at different aspects of these systems – their historical backgrounds, political cultures, interest groups, party systems and elections, political structures and leadership recruitment processes and the policy making processes – in order to compare the attributes and performance characteristics of the general

Spanish 1

Course Number: 60.0710000—Year long

This beginning level Spanish course is designed to introduce students to the Spanish language and culture of Spanish-speaking peoples. Students will use the four language skills listening, speaking, reading and writing to attain proficiency and ability to communicate in Spanish. Major Topics: Spanish pronunciation, greetings & common expressions, family & school, time, shopping/purchases, food/meals & celebrations, house/locations, beach activities, leisure time activities, transportation, Spanish culture.

Spanish 2

Course Number: 60.0720000 —Year long

The objective of this course is to continue development in the four basic skills of communication in Spanish: listening comprehension, reading, speaking, and writing in order to promote an appreciation and understanding of the Spanish-speaking people, their culture and civilization. Major Topics include: Spanish pronunciation, greetings & introductions, conversational starters, shopping, food/meals, celebrations, house/neighborhood, beach activities, weather; school, leisure time activities, travel, Spanish culture.

Spanish 2 Honors

Course Number: 60.0720040 —Year long

This course continues development in the four basic skills of communication in Spanish at an accelerated pace, listening/comprehension, reading, speaking and writing, in order to promote an appreciation and understanding of the Spanish-speaking people, their culture and civilization. Major Topics: Spanish pronunciation, greetings & introductions, conversational starters, shopping & food/meals, celebrations & travel, house/neighborhood, leisure time & beach activities, weather & school, and Spanish culture.

Spanish 3

Course Number: 60.0730000 —Year long

This course integrates a systematic review of first and second year concepts with third year materials. Continued emphasis on communicative skills is stressed. Integration of cultural information pertaining to the designated topics of this course occurs in skill areas where appropriate. Major topics: Spanish pronunciation, vacations & hobbies, health & diet, urban life & culture/music, geography & politics/citizenship, clothing & celebrations, occupations, job search/interviews, trade & industry of Latin America, Spanish culture.

Spanish 3 Honors

Course Number: 60.0730040—Year long

This course integrates material and skills from Spanish I and II with the new third year concepts and vocabulary, at an accelerated pace. Integration of cultural information pertaining to the designated topics occurs where appropriate. Major topics: Weekend activities & vacations, healthful eating & applying for a job, personal interests and hobbies; geography & culture; clothing & celebrations; music of the youth; Spanish influence in North America; Spanish art and handcrafts; trade and industry of Latin America; students participate in and create additional communicative activities based on the unit topics which require additional target language research.

Spanish 4

Course Number: 60.0740000—Year long

This course integrates a systematic review of first year concepts with the new second year material. Continued emphasis on communicative skills is stressed, integration of cultural information pertaining to the designated topics of this course occurs in skill areas where appropriate. Major topics: Current affairs, pop music, culture segments, careers, writing enhancement.

Spanish 4 Honors

Course Number: 60.0740040—Year long

This advanced level Spanish course is designed to help students master the four language skills listening, speaking, reading and writing while learning about the culture of the Spanish speaking world. Cultural information pertaining to the topics of this course is included where appropriate. Music and art from Spanish speaking countries are included and some literature will be introduced. The topical content provides a springboard for communication practice and the incorporation of supplemental materials. Major topics: Children's literary themes, visual arts, literary selections, current events, daily life, writing enhancement.

Spanish 5 Honors

Course Number: 60.0760040 —Year long

This course integrates a systematic review of first through fourth year concepts. Continued emphasis on communication skills is stressed, and integration of cultural information pertaining to the designated topics of this course occurs in skill areas where appropriate. Emphasis is placed on sharpening speaking, listening, reading and writing skills in preparation for college placement.

Advanced Placement Spanish Language

Course Number: 60.0770010—Year long

The class is taught entirely in Spanish. The AP Spanish Language course covers the equivalent of a third-year college course in advanced Spanish writing and conversation. It encompasses aural/oral skills, reading comprehension, grammar, and composition. Students taking such a course emphasize the use of Spanish for active communication. The course content might best reflect intellectual interests shared by the student and teacher such as the arts, history, current events, literature, culture, sports, etc. Materials might include recordings, films, newspapers, and magazines. The course seeks to develop language skills that are useful in themselves and that can be applied to various activities and disciplines rather than to the mastery of any specific subject matter. Extensive training in the organization and writing of compositions is an integral part of the AP Spanish Language course. Prerequisite: POD, Application

French 1

Course Number: 60.0110000 —Year long

Beginning level French is designed to introduce students to the French language and the culture of French-speaking peoples. Students will use the four language skills listening, speaking, reading and writing to attain proficiency and the ability to communicate in French. Major topics include: Introduction to the French alphabet and French pronunciation; familiar words and phrases; greetings; family & friends; numbers & time; days of the week & dates; weather/seasons; food/meals; city life; shopping; leisure time activities; French culture.

French 2

Course Number: 60.0120000—Year long

French 2 emphasizes oral fluency and expects distinct growth in vocabulary and sentence patterns for functional use. Major topics include: French pronunciation; money & shopping; school & education; daily activities & house duties; jobs & professions; nature & environment; leisure activities; health; sports & transportation; French culture.

French 2 Honors

Honors French 2 60.0120040 Year

This course continues emphasis on oral proficiency and fluency, increases emphasis on reading comprehension in the language and on controlled composition, and expects distinct growth in vocabulary and sentence patterns for functional use. Major topics include: money & shopping; school & education; daily activities, house duties; jobs & professions; leisure activities; nature & environment; medical/dental care; sports & transportation; clothing & personal appearance; French culture.

French 3

Course Number: 60.0130000—Year long

French 3 emphasizes advanced structures of the language through a thorough practice in reading, writing, speaking and listening. Major topics include: time & weather; family & friends / relationships; food and restaurants; money & shopping; school & education; daily and leisure-time activities; service & repairs; clothing & personal appearance; transportation; vacation & travel; art and music; Francophone culture.

French 3 Honors

Course Number: 60.0130040 —Year long

French 3 Honors emphasizes advanced structures of the language through intensive, fast-paced practice in reading, writing, speaking and listening. Major topics include: time & weather; family & friends / relationships; food and restaurants, money & shopping; school & education; daily & leisure time activities; describing oneself, service & repairs, clothing & personal appearance, transportation; vacation & travel, creation of a class newspaper or magazine utilizing the topics listed above; French culture.

French 4

Course Number: 60.0140000—Year long

French 4 is an advanced course designed for students continuing from French 3. Student skills will be demonstrated and assessed via a variety of activities including, but not limited to, essays, skits, projects, web activities and video/audio recordings. Major topics include: travel; current affairs; music; culture segments; careers; writing enhancement; relationships;

French 4 Honors

Course Number: 60.0140040 —Year long

French 4 Honors is conducted entirely in French and emphasizes a high level of facility of advanced structures of the language through intensive, fast-paced practice in reading, writing, speaking and listening. Skills will be demonstrated and assessed via a variety of activities including, but not limited to, essays, skits, projects, web activities and video/audio recordings. This course is geared to prepare students for the rigors of the AP French Language course. Major topics include: Children's literary themes; visual arts; literary selections; current events; daily life; writing enhancement; French culture.

Advanced Placement French Language

Course Number: 60.0170010—Year long

The AP French Language Course is a grammar-intensive course which prepares students for the Advanced Placement exam offered by the College Board. Students work to improve both oral and written language production through continuous speaking, composition, listening and reading practice. Major topics include: Formal and informal spoken French; various forms of printed texts; written communication; audio response; cultural and current themes.

French 5 Honors

Course Number: 60.0160040—Year long

This course integrates a systematic review of concepts learned in the first four years of French. Continued emphasis is placed upon communicative skills and cultural information. Major topics include: careers; music; film and theater; art; various kinds of media; French culture.

Latin 1

Course Number: 61.0410000—Year long

This beginning Latin course is designed to introduce students to the Latin language and culture of Ancient Rome. It emphasizes the ability to write simple Latin sentences and to read and understand simple Latin passages presented orally and in writing. Major topics: Latin pronunciation, greetings and common expressions, family, houses, public life, theatres, dinner parties and dining, baths and bathing, gladiators, slavery in the Roman world, Pompeii, and mythology.

Latin 2

Course Number: 61.0420000—Year long

The objective of this course is to continue development of Latin language skills and provide opportunities to interact with longer, more challenging Latin passages. This course will promote an appreciation and understanding of Ancient Rome and how her culture and language have contributed to Western language and civilization. Major topics include: travel, Roman Britain, Roman Egypt, the Roman Empire, the legions, state religion, and mythology.

Latin 2 Honors

Course Number: 61.0420040—Year long

The objective of this course is to continue development of Latin language skills and provide opportunities to interact with longer, more challenging Latin passages. This course will promote an appreciation and understanding of Ancient Rome and how her culture and language have contributed to Western language and civilization. Major topics include: travel, Roman Britain, Roman Egypt, the Roman Empire, the legions, state religion, and mythology.

Latin 3 Honors

Course Number: - Year long

The objective of this course is to continue development of Latin language skills and provide opportunities to interact with longer, more challenging Latin passages, as well as authentic Latin materials. This course will promote an appreciation and understanding of Ancient Rome and how her culture and language have contributed to Western language and civilization. Major topics include: weddings, letter writing, court system, Roman provinces, Roman poets, Roman orators, and mythology. Prerequisite: Latin 2 and teacher recommendation.

Visual Arts/Comprehensive I (Intro)

The following course is a basic art course and is a prerequisite to all other art courses.

Course Number: 50.0211001—Semester long

This semester long course is an introduction to art history, art criticism, aesthetics, art production and art careers. It establishes a standard and consistent foundation in the discipline of visual art with emphasis on the understanding and use of the elements of art and principles of design through a variety of media, processes, and visual resources. **Priority is given to underclassmen.**

Drawing and Painting I

Course Number: 50.0313001 —Semester long

This semester long course instructs students in fundamental drawing skills and prepares them to make the transition to painting. Course work builds on drawing skills introduced in Introduction to Art. Drawing approaches include contour, value to model form, gesture, visual perspective. Students apply color theory as an aesthetic within their artwork. Students work with a variety of drawing media such as pencil, charcoal, conté, oil pastels. Art history, art criticism and aesthetics are incorporated with studio production of drawings and paintings. **Prerequisite: Introduction to Art**

Photography I

Course Number: 50.0711001—Semester long

This semester long course is an introduction to black and white photography and darkroom processing. Students will construct their own pinhole camera and create a photographic portfolio as they learn the technical and artistic aspects of photography. Photo history, critiques of photos, aesthetics and design will be addressed throughout the semester.

Prerequisite: Introduction to Art

Ceramics/Pottery I

Course Number: 50.0411001—Semester long

Ceramics 1 is a semester long introductory course in ceramics clay covering the three basic methods of hand building. Students will produce ceramic art works using pinch, slab, and coil techniques. Students will learn the basic vocabulary of ceramics as well as methods of surface treatment, firing, and other related aspects. Ceramic history, aesthetics, and art criticism will be incorporated throughout the course with studio production of ceramic artwork. **Prerequisite: Introduction to Art**

Digital Design Projects I Computer Art

Course Number: 50.0725001- Semester long

This semester long course will acquaint students with the use of computers and digital media for the production of art. The course is geared toward developing artistic skills and computer skills to communicate ideas through print and multimedia presentations. The majority of coursework will be designed and produced utilizing Adobe Photoshop. At the completion of the course, students may move into Advanced Digital Design Products.

Prerequisite: Introduction to Art

Graphics I Graphic Design 1

Course Number: 50.721001—Semester long

In this semester long course, students are introduced to graphic design and study the art processes and techniques involved with the arrangement of words, shapes or images or their combination to communicate a concept directed toward a specific audience for a particular purpose or function.

Prerequisite: Introduction to Art

Jewelry and Metalcrafts I

Course Number: 50.0460001—Semester long

This semester long course introduces jewelry making as an art form of the past and present. A variety of media and tools are explored. The elements of art and principles of design are used to analyze, design, create and evaluate jewelry. The course combines aesthetics, art criticism and art history with studio production of jewelry and metalwork. **Prerequisite: Introduction to Art**

Printmaking I

Course Number: 50.0511001—Semester long

Printmaking I is a semester long course that introduces art printmaking using collagraph, serigraphy, linoleum relief, and monotype. A variety of media and tools are explored. The elements of art and principles of design are used to analyze, design, create, and evaluate prints. The course combines aesthetics, art criticism, and art history with production of print series.

Prerequisite: Introduction to Art

Sculpture I

Course Number: 50.0611001—Semester long

Sculpture 1 is a semester long course that introduces three-dimensional art making including additive, subtractive and modeling processes and a variety of media. Art criticism, art history, aesthetics and habits of mind developed through work in the arts are incorporated. **Prerequisite:** Introduction to Art

Drawing and Painting II

Course Number: 50.0314001 —Semester long

Drawing and Painting II is a semester long course that develops fundamental painting skills and continues to strengthen composition and drawing skills. This course includes studies in color sensitivity and a wide range of media techniques. Art history, criticism, and aesthetics are incorporated with studio production of drawing and painting. **Prerequisite:** Introduction to Art, Drawing and Painting I

Painting I Drawing and Painting III

Course Number: 50.0321001—Semester long

This course continues to develop painting skills and strengthen composition and drawing skills. This course furthers studies in color sensitivity with a wide range of media techniques. Students begin working on a unique artistic style and developing a portfolio. **Prerequisite:** Introduction to Art, Drawing and Painting II

Painting II Drawing and Painting IV

Course Number: 50.0322001—Semester long

This advanced course continues to develops painting skills and strengthen composition and drawing skills. Students work on creating a unique artistic style and develop a portfolio of work for future career or college. **Prerequisite:** Introduction to Art, Drawing and Painting I, II & III

Photography II

Course Number: 50.0712001—Semester long

This course builds on basic skills and darkroom techniques learned in Photography I. Students hone skills in communicating meaning through photography. Students learn to use a 35mm camera, develop and print images from black and white film and refine darkroom and printing techniques. The course incorporates aesthetics, art criticism, art history and a brief introduction to digital photography. **Prerequisite:** Introduction to Art, Photography I

Photographic Design III

Course Number: 50.0713001—Semester long

Photographic Design III builds on the darkroom skills and on communicating meaning through photography begun in Photo Design II. Students will work in a more conceptual manner to develop their own ideas, style and artistic voice while developing a portfolio. **Prerequisite:** Introduction to Art, Photography I & II

Photographic Design IV

Course Number: 50.0714001 —Semester long

In this course students continue to hone skills developed in Photo Design III. Students will work in a more conceptual manner to develop their own ideas, style and artistic voice while continuing to develop a portfolio. **Prerequisite:** Introduction to Art, Photography I, II & III

Ceramics/Pottery II

Course Number: 50.0412001 —Semester long

Ceramics II provides in-depth work with clay beyond that of Ceramics 1. Students will further technical ability in hand building, surface decoration, and/or wheel-thrown ceramics. Glaze chemistry will be addressed with an emphasis on how a glaze works and how to alter results. Alternative firing techniques will introduce students to various surface effects and firing atmospheres. Students will work in a more conceptual manner to develop their own ideas, style and artistic voice. Students will continue to investigate ceramics from around the world and throughout time. **Prerequisite:** Introduction to Art, Ceramics/Pottery I

Ceramics/Pottery III

Course Number: 50.0413001 —Semester long

Ceramics III builds on the skills and concepts explored in Ceramics II. Students will further technical ability in hand building, surface decoration, and/or wheel-thrown ceramics. Glaze chemistry will be addressed with an emphasis on how a glaze works and how to alter results. Alternative firing techniques will introduce students to various surface effects and firing atmospheres. Students will work in a more conceptual manner to develop their own ideas, styles and artistic voice while developing a portfolio.

Prerequisite: Introduction to Art, Ceramics/Pottery I & II

Ceramics/Pottery IV

Course Number: 50.0414001 —Semester long

This advanced course provides in-depth work with clay. Students will work in a more conceptual manner to develop their own ideas, styles and artistic voice while developing a portfolio.

Prerequisite: Introduction to Art, Ceramics/Pottery I, II, & III

Graphics II Graphic Design 2

Course Number: 50.0722001—Semester long

Students in Graphics II extend the study begun in Graphics I of the art processes and techniques involved with the arrangement of words, shapes, images or their combination to communicate a concept directed toward a specific audience for a particular purpose or function. **Prerequisite:** Introduction to Art, Graphics I

Sculpture II

Course Number: 50.0612001 —Semester long

Sculpture II expands on the skills and concepts explored in Sculpture I. Students continue the study and production of three-dimensional art making including additive, subtractive and modeling processes of sculptural construction. Sculpture's influence on the environment will be examined, as well as the investigation of a variety of media. Students are expected to make connections as they explore meaning, develop creative thinking skills, search for contextual understanding resulting in authentic assessment and reflection. **Prerequisite:** Introduction to Art, Sculpture I

Printmaking II

Course Number: 50.0512002 —Semester long

Printmaking II expands on the printmaking skills and concepts explored in Printmaking I. Students further their study of media and tools related to printmaking. The elements of art and principles of design are used to analyze, design, create, and evaluate prints. The course combines aesthetics, art criticism, and art history with production of print series. **Prerequisite:** Introduction to Art, Printmaking I

Advanced Digital Design Projects II Computer Art 2

Course Number: 50.0727001 —Semester long

This course will acquaint students with additional digital media for the production of art. The course continues development of artistic and computer skills to communicate ideas through print and multimedia. Course work will emphasize scanning, digital photography and a combination of computer and traditional art media. Students will design and produce art utilizing the bitmapped graphics program of Adobe Photoshop and vector graphics program, Adobe Illustrator.

Prerequisite: Introduction to Art, Digital Design Projects I.

Advanced Placement Studio Art: Drawing Portfolio

Course Number: 50.4811010 —Year long

This course is a performance based exam rather than a written exam. The product of this class will be a portfolio presented to the AP College Board. This portfolio is intended to address a very broad interpretation of drawing issues and media. The interpretation of these issues will be addressed through a variety of means which could include painting, printmaking, mixed media, etc. Abstract, observational and inventive works may demonstrate drawing competence. The Drawing Portfolio involves purposeful decision-making about how to use the elements and principles of art in an integrative way in drawing and painting media. A variety of approaches to representation, abstraction, and expression may be part of the student's portfolio. Students should expect to spend 8 or more hours outside of class each week to complete the assignments. Summer work provides students with a head start on their portfolios and is required prior to fall entry into the class. **Prerequisite:** Introduction to Art, Drawing and Painting I & II, Application, AP Commitment Contract, Portfolio Review

Advanced Placement Studio Art: 2D Design Portfolio

Course Number: 50.4813010—Year long

This course is a performance based exam rather than a written exam. The product of this class will be a portfolio presented to the AP College Board. This portfolio is intended to address a very broad interpretation of two-dimensional 2D design issues. This type of design involves purposeful decision-making about how to use the elements and principles of art in an integrative way. A variety of approaches to representation, abstraction and expression may be a part of the student's portfolio. This portfolio allows the student to work with photographic images, digital images, computer-manipulated images, as well as media production. Students should expect to spend 8 or more hours outside of class each week to complete the assignments. Summer work provides students with a head start on their portfolios and is required prior to fall entry into the class.

Prerequisite: Introduction to Art, Drawing and Painting I & II or Photo Design I & II or Graphics I & II or Digital Design I & II, or a combination of the previous, Application, AP Commitment Contract, Portfolio Review

Advanced Placement Studio Art: 3D Design Portfolio

Course Number: 50.4814010—Year long

This course is a performance based exam rather than a written exam. The product of this class will be a portfolio presented to the AP College Board. This portfolio is intended to address a broad interpretation of sculptural issues in depth and space. A variety of approaches to representation, abstraction and expression may be a part of the student's portfolio. These might include traditional figurative as well as non-figurative sculpture, architectural models, apparel, ceramics, 3D fiber art or metal works among others. Students should expect to spend 8 or more hours outside of class each week to complete the assignments. Summer work provides students with a head start on their portfolios and is required prior to fall entry into the class. **Prerequisite: Ceramics I & II or Sculpture I & II, Introduction to Art, Application, AP Commitment Contract, Portfolio Review**

Advanced Placement Art History

Course Number: 50.0921060—Year long

Students will study the history of art and its relationship with society from prehistoric to ancient worlds, ending with contemporary art. The course is organized by chronological art movements and creates a frame for meaningful understanding that relates how and why works of art communicate visual meaning. The class is purely academic and prepares the student for the AP Art History exam in the spring. There is no art production in this class. **Teacher Comments:** This course pairs well with AP World History and also counts as an art credit at many public universities. **Prerequisites: None, This course does not serve as a pre-requisite for advanced art**

Acting I

Course Number: 52.0610000—Year long

This year long course is an introduction to acting. It is the prerequisite for all other acting classes. Beginning actors will be exposed to several different performance styles and methods which will improve their performance skills. This course uses theatre to encourage cooperative learning, team work, organization, and leadership skills. The class allows all students the opportunity to perform in large and small groups on a regular basis.

Acting II

Course Number: 52.0620000 —Year long

This year long course delves further into the techniques of acting including movement, voice and character development. Students will explore different acting techniques and delve into theatre history from a performance perspective. The course is designed for any student wishing to hone their acting skills in an effort to broaden the range of possibilities for performance. **Prerequisite: Acting I or Audition.**

Advanced Drama I Advanced Acting

Course Number: 52.0510000—Year long

This year long course is an advanced study in acting and production. The course will include advanced acting techniques and in-class production opportunities. Students will assume positions of responsibility on selected productions throughout the year, and will have an opportunity to participate in several types of artistic situations. **Prerequisite: Acting II or Audition.**

Technical Theatre I

Course Number: 52.0410000—Year long

This year long course functions as an introduction to the technical elements of theatre, such as Set Design, Set Construction, Costumes, Makeup, Props, Lighting, Sound and Publicity. Students will have the opportunity to construct the sets for all JCHS Theatre department productions.

Technical Theatre II

Course Number: 52.0420000—Year long

This year long course delves further into the explorations of the technical elements of theatre. Students will learn to improve their use of tools and technical skills associated with the elements of theatrical design and theatre management. Students will have the opportunity to construct the sets for all JCHS Theatre department productions. **Prerequisite: Technical Theatre I**

Music Appreciation

Course Number: 53.0140001—Semester long

Music Appreciation is a one semester elective course open to all high school students. Students will learn of the historical events that have made the music of today possible as they participate in research, video/audio reviews, and possible field trips. The course will assist the students in becoming more informed as consumers of music. **Prerequisite:** None

Music Theory I

Course Number: 53.0210001—Semester long

Music Theory is offered to all music students. The course will cover the study of harmony and ear training. You must be enrolled in band, orchestra or chorus or audition for the teacher to prove music reading skills. Only serious music students should register for this class. **Teacher permission is required**

Music Theory II

Course Number: 53.0220000 Semester long

A continuation of Music Theory I. **Prerequisite** Music Theory I

Beginning Keyboard Techniques I Piano Lab

Course Number: 53.0941000—Year long

The piano lab class is a year long class, open to students with no or very little keyboard experience. Students will be taught the basic piano skills/techniques, theory, music reading skills and piano literature. At the end of each semester a recital is presented to parents, friends, and administration.

Advanced Orchestra I, II, III, IV “Sinfonia-I”

Course Number: 53.0581000 53.0582000 53.0583000 53.0584000 - Year long

“Sinfonia” Orchestra is a performance group comprised of 9th through 12th grade students. The students are selected through auditions and/or with the approval of the Orchestra Director, with the understanding that there will be out-of-school performances and rehearsals required of all members during the school year. The course will cover the mechanics of string instruments: note reading, rhythm, pitch discrimination, expression, and music literacy at a higher level. Students receive one hour elective credit for all music courses.

Prerequisite: Audition

Advanced Orchestra I, II, III, IV “Sinfonia-II”

Course Number: 53.0581000 53.0582000 53.0583000 53.0584000—Year long

“Sinfonia” Orchestra is a performance group comprised of 9th through 12th grade students. The students are selected through auditions and/or with the approval of the Orchestra Director, with the understanding that there will be out-of-school performances and rehearsals required of all members during the school year. The course will cover the mechanics of string instruments: note reading, rhythm, pitch discrimination, expression, and music literacy at a higher level. Students receive one hour elective credit for all music courses.

Prerequisite: Audition

Advanced Orchestra I, II, III, IV “Philharmonia”

Course Number: 53.0581000 53.0582000 53.0583000 53.0584000—Year long

“Philharmonia” Orchestra is a performance group comprised of 9th through 12th grade students. The students are selected through auditions and/or with the approval of the Orchestra Director, with the understanding that there will be out-of-school performances and rehearsals required of all members during the school year. The course will cover the mechanics of string instruments: note reading, rhythm, pitch discrimination, expression, and music literacy at a higher level. Students receive one hour elective credit for all music courses.

Prerequisite: Audition

Advanced Orchestra I, II, III, IV “Chamber”

Course Number: 53.0581000 53.0582000 53.0583000 53.0584000—Year long

“Chamber” Orchestra is the most advanced string students selected based on musical skills, dependability, and instrumentation. This performance group is comprised of the advanced 9th through 12th grade string students. The students are selected through auditions and/or with the approval of the Orchestra Director, with the understanding that there will be out-of-school performances and rehearsals required of all members during the school year. The course will cover the mechanics of string instruments: note reading, rhythm, pitch discrimination, expression, and music literacy at a higher level. Students receive one hour elective credit for all music courses.

Prerequisite: Audition

Advanced Band I, II, III, IV “Wind Ensemble”

Course Number: 53.0381000 53.0382000 53.0383000 53.0384000—Year long

Open to all Woodwind and Brass players. Students will be placed in this band by AUDITION ONLY. In addition, Band Director recommendation is required. There will be one or two, outside of school, rehearsals for each performance.

Prerequisite: Audition.

Advanced Band I, II, III, IV “Symphonic Band”**Course Number:** 53.0381000 53.0382000 53.0383000 53.0384000—Year long

Open to all Woodwind and Brass players. Students will be placed in this band by AUDITION ONLY. In addition, Band Director recommendation is required. There will be one or two, outside of school, rehearsals for each performance.

Prerequisite: Audition.**Advanced Band I, II, III, IV “Concert Band”****Course Number:** 53.0381000 53.0382000 53.0383000 53.0384000—Year long

Open to all Woodwind and Brass players. Students will be placed in this band by AUDITION ONLY. In addition, Band Director recommendation is required. There will be one or two, outside of school, rehearsals for each performance.

Prerequisite: Audition.**Advanced Instrumental Ensemble I, II, III, IV “Percussion”****Course Number:** 53.0761000 53.0762000 53.0763000 53.0764000—Year long

All band percussion students should register for this class. We will host one or two combined rehearsals with the brass and woodwind players before each performance. **Prerequisite:** Recommendation of current band director.

Beginning Mixed Chorus I Voice Class**Course Number:** 54.0211000—Year long

This class is offered to students who like to sing and would like to improve their vocal technique and performance confidence and skills. They will work on music of all styles and learn to perform in all genres. There will be no required outside performances for grades. In class performances will be take the place of outside performances to be graded. **Prerequisite:** None

Intermediate Mixed Chorus I Chorale**Course Number:** 54.0221000—Year long

This class is offered to students that like to sing and have some choral music experience in their background. The ensemble will study choral music from folksongs to classics while working on vocal technique, breathing and performance skills. They will perform in at least four concerts per year for a grade, including a rehearsal after school for each performance. **Prerequisite:** None

Advanced Women's Chorus I, II, III, IV ‘Bel Canto’**Course Number:** 54.0261000 54.0262000 54.0263000 54.0264000—Year long

This class is offered to **advanced** female **vocal music** students that have been singing in a school Chorus for a minimum of one year. It requires a teacher recommendation from the previous school, or an audition for placement. This ensemble studies a wide variety of choral **literature** while learning to improve their vocal production and sight singing skills. They perform in at least four concerts per year for a grade, **including an after school rehearsal for each performance.** **Prerequisite:** Audition

Mastery Mixed Chorus I, II, III, IV ‘Chamber Singers’**Course Number:** 54.0235000 54.0236000 54.0237000 54.0238000—Year long

This class is offered to the most advanced vocal / choral musicians with strong sight singing and reading skills. They will sing a wide assortment of choral literature from Classics to Jazz. The music for this class is at the highest High School and College level. All students are required to audition for All-State Chorus and they are graded on their preparation and scores. **Prerequisite:** Audition

Musical Theatre I**Course Number:** 52.0310000—Semester long

This class will be offered to all students that wish to study the history of Musical Theatre and work on their skills in Acting, Singing and Dancing. The class will read musical scripts, prepare for auditions and have 2 required performances per semester, including rehearsals for a grade. Field Trips are possible. **Prerequisite:** Audition, 11th & 12th grade

Advanced Placement Music Theory**Course Number:** 53.0230010—Year long

AP Music Theory is intended for the student who wishes to obtain a greater understanding of the mechanics and foundations of music. The class will emphasize the study of fundamentals, melody, voice leading, harmony, texture, harmonic progression, form, and analysis. Through identification, analysis, and prescription, students will be able to demonstrate proper musical styles of writing of the common practice period. Students will also refine aural skills through dictation, sight-singing, and computer-assisted ear training programs. **Prerequisite:** Permission of Department

General Health

Course Number: 17.0110001 Semester

This course fulfills the requirement for graduation and the State of Georgia Drug and Alcohol Awareness component required for obtaining a driver's license. Course introduces personal health, decision-making skills, mental health, emotions, stress, alcohol, drug and tobacco use/abuse, nutrition, First Aid/CPR and sex education. **Prerequisite: This course is recommended for 9th graders, but can be taken at other levels. Required for graduation**

Personal Fitness

Course Number: 36.0510001—Semester long

This course fulfills the requirement for graduation. The course introduces weight training and cardiovascular fitness games. Health-related fitness components are assessed by using the 'Fitness-Gram Computer' software program. A personal workout plan is designed and implemented in the course. Final Exam may be scheduled at a local fitness facility.

Prerequisite: Sophomores/Juniors/Seniors ONLY.

General PE I

Course Number: 36.0110001—Semester long

Introduces the rules, skills and strategy of basketball, volleyball, arena ball, Frisbee games, flag football, tennis and soccer.

General PE II

Course Number: 36.0120001—Semester long

Introduces the rules, skills and strategy of basketball, flag football, team handball, and soccer.

Outdoor Education

Course Number: 36.0250001—Fall Semester

This course introduces various aspects of outdoor education including conservation, camping, backpacking, outdoor safety/survival, climbing, snow skiing, angling, and archery. Fundamentals learned in this course are applied during overnight weekend camping trips. **Prerequisite: Sophomores Only**

Recreational Games

Course Number: 36.0270001—Semester only

Introduces the rules, skills and strategy of Badminton, table tennis, bowling, pickle ball, bocce ball and tennis. Final exam may be scheduled at a local bowling lane. **Prerequisite: Freshman only**

Intro to Weight Training

Course Number: 36.0540000—Year long

Introduction to weight training and conditioning introduces correct lifting form; individual weight training programs are designed according to individual abilities.

Weight Training

Course Number: 36.0540001—First Semester

Introductory course that is designed to enhance the student's muscular strength and endurance. Students will gain knowledge in fitness concepts such as frequency, intensity, duration, sets, and repetitions. Cardiovascular training is included in this course.

Weight Training

Course Number: 36.0540002—Second Semester

Introductory course that is designed to enhance the student's muscular strength and endurance. Students will gain knowledge in fitness concepts such as frequency, intensity, duration, sets, and repetitions. Cardiovascular training is included in this course.

Body Sculpting

Course Number: 36.0560001—Semester

This course uses a variety of conditioning activities with cognitive concepts. **Prerequisite: Girls ONLY**

Introduction to Drafting and Design

Course Number: 48.5410000 Year long

Introduction to Drafting and Design is a foundation course that serves as an introduction to the drafting and design field and is a prerequisite to all other courses in the Architecture program. Emphasis is placed on safety, sketching, lettering, and geometric construction, fundamentals of Computer-Aided Design, multi-view drawings and basic floor plan designs. The standards are aligned with the drafting and design standards in the Georgia's technical colleges. Further, the standards are aligned with the national standards of the American Design Drafting Association ADDA. Auto CAD 2010 will be used in this class.

Architectural Drawing and Design I

Course Number: 48.5450000 Year long

Architectural Drawing and Design I introduces students to the basic terminology, concepts, and principles of architectural design. Emphasis is placed on house designs, floor plans, roof designs, elevations interior and exterior, schedules, and foundations. The standards are aligned with the drafting and design standards in Georgia's technical colleges. Further, the standards are aligned with the national standards of the American Design Drafting Association ADDA. Auto CAD 2010, Inventor 2010 and REVIT 2010 will be used in this class. Prerequisite: Introduction to Drafting and Design.

Architectural Drawing and Design II

Course Number: 48.5460000 Year long

Architectural Drawing and Design II is a course that builds on the skills developed in Architectural Drawing and Design I. Emphasis is placed on schedules, plumbing, heating and air, graphic presentations, plot/site plans, specifications, and building estimations. CAD tools and software are used extensively throughout the course. The standards are aligned with the drafting and design standards in Georgia's technical colleges. Further, the standards are aligned with the national standards of the American Design Drafting Association ADDA. Auto CAD 2010, Inventor 2010 and REVIT 2010 will be used in this class. **Prerequisite: Architectural Drawing and Design I**

Audio/Video Tech & Film I

Course Number: 10.5181000—Year long

This course provides an introductory overview of television production with an emphasis on the role of the television production team. Students are instructed on the correct operation of studio and field production equipment as well as the history of television, scriptwriting, news reporting, safety and post-production editing. This yearlong course will provide the basic knowledge required to progress on to the advanced levels of the program. **Extracurricular productions are a requirement of this program.**

Audio/Video Tech & Film II

Audio/Video Tech & Film II 10.5191000 Year long

Students complete advanced editing projects and work as crewmembers on the in-studio and field production to reinforce the television production process. Participants serve as reporters and producers on segments of John Creek's television program. Students will work with computer-based editing and advanced graphics as part of the course. Leadership opportunities afford themselves to students as producers of various departmental productions. **Extracurricular productions are a requirement of this program. Prerequisite:**

Audio/Video Tech & Film III

Course Number: 10.5201000 Year long

This third-year course provides students the opportunity to complete advanced editing projects and direct student production groups. Participants learn advanced editing techniques for use with both in and out of school productions. Students will be using nonlinear editing equipment as well as graphics and compositing software for their productions. **Extracurricular productions are a requirement of this program. Prerequisite: Successful completion of Audio/Video Tech & Film II and teacher recommendation.**

Broadcast/Video Applications

Course Number: 10.4141000 Year long

Students in Broadcast/Video Applications will serve as producers for many of the videos created in the program. Fourth year students will specialize in areas of production that they may pursue in post-secondary education. During the course, students may work on portfolios for career or educational advancement. **Extracurricular participation is a mandatory part of the program. Prerequisite: Successful completion of Audio/Video Tech & Film III and teacher recommendation.**

Introduction to Business and Technology

Course Number: 07.4413000—Year long

This course is the foundation for Administrative Support, Small Business Development, and Human Resources Management pathways. The course is designed for high school students as a gateway to the career pathways above, and provides an overview of business and technology skills required for today's business environment. Knowledge of business principles, the impact of financial decisions, and technology proficiencies demanded by business combine to establish the elements of this course. Emphasis is placed on working in a business environment, managing a business, and owning a business. The intention of this course is to prepare students to be successful both personally and professionally in an information-based society. Students will not only understand the concepts, but apply their knowledge to situation and defend their action/decisions/choices and projects throughout the course standards to demonstrate the skills required by business and industry. Competencies in the co-curricular student organization, Future Business Leaders of America FBLA, are integral components of both the employability skills standards and content standards for this course.

Entrepreneurship

Course Number: 06.4161000 Yearlong

Entrepreneurship is a course in the Entrepreneurship pathway. This class focuses on recognizing a business opportunity, starting a business, operating and maintaining a business. Students will be exposed to the development of critical thinking, problem solving, and innovation in this course as they will either be the business owner or individuals working in a competitive job market in the future. Integration of accounting, finance, marketing, business management, legal and economic environments will be developed throughout projects in this course. Engaging students in the creation and management of a business and the challenges of being a small business owner will be fulfilled. Intro to Business and Technology previously Business Essentials is a prerequisite for this course. Business Law will be taught in alternating years with Entrepreneurship for pathway completion.

College Accounting I and II

These courses are offered through Gwinnett Technical College at JCHS

Introduction to Digital Technology

Course Number: 11.4150000—Year long

This course is the foundation for Web & Digital Communications, Programming, Information Support and Services, and Network Systems pathways. This course is designed for high school students to understand, communicate, and adapt to a digital world as it impacts their personal life, society, and the business world. Exposure to foundational knowledge in hardware, software, programming, web design, IT support, and networks are all taught in a computer lab with hands-on activities and project focused tasks. Students will not only understand the concepts, but apply their knowledge to situations and defend their actions/decisions/choices through the knowledge and skills acquired in this course. Employability skills are integrated into activities, tasks, and projects throughout the course standards to demonstrate the skills required by business and industry. Competencies in the co-curricular student organizations, Future Business Leaders of America FBLA are integral components of both the employability skills standards and content standards for this course. Various forms of technologies will be highlighted to expose students to the emerging problem-solving, ethical and legal issues, and the impact of effective presentation skills are taught in this course as a foundational knowledge to prepare students to be college and career ready. The knowledge and skills taught in this course build upon each other to form a comprehensive introduction to the digital world.

Digital Design

Course Number: 11.4510000—Year long

Students in this course learn how to design basic Web sites. Included are site planning, page layout, graphic design, and the use of markup languages. Forms and scripts are used to add interactivity and database access to Web sites. **Prerequisite: Sophomores/Juniors/Seniors.**

Web Design

Course Number: 11.452000—Year long

The goal of this course is to provide students with the study of advanced topics in web design. Upon completion of this course, students should have a thorough knowledge of all areas of web page design. Topics include the web development process, advanced layout and design features, advanced study of scripting languages, site development & HTML editors, and web servers & databases. **Prerequisite: Fundamentals of Web Design.**

Foundations of Engineering and Technology

Course Number: 21.4250000—Year long

JCHS has a state-of-the-art lab utilizing industry standard equipment to learn the basics of engineering practices. During the year, individual work, group work and engineering training modules will be used as students explore basic engineering practices used in industry. Companies will be formed and students will use skills learned in the trainers to design and build projects. During the projects, a corporate structure is used as well as, teamwork, company logo, a video, brochure, web page, Power Point presentation, and company t-shirts will be made along with a fully functioning prototype of the product. Students will learn how to safely use equipment from basic hand and power tools to industrial robots and computer controlled milling machines. Foundations of Engineering Technology is the first course of a possible four-year track in Engineering.

Engineering Concepts

Course Number: 21.4710000—Year Long

A more in-depth study of various engineering practices will take place in Engineering Concepts. As more advanced engineering skills are learned, students take on many of the challenges faced in real life engineering careers. Some design projects in Engineering Concepts include: Hovercrafts, Solar Fuel Cell Vehicles, Ergonomic Workstations, and Handicap Lifting Devices. **Prerequisite: Foundations of Engineering Technology.**

Engineering Applications

Course Number: 21.4720000—Year Long

Engineering Applications continues the students' opportunities to learn about Engineering. This third year class takes the students further into the fields of Engineering. The students continue to use the engineering training stations as well as projects. Example projects in Engineering Applications are: Water Desalination, Hydroponic Gardening, Smart House Security and Automatic Drawbridge. **Prerequisite: Engineering Concepts.**

Research, Design and Project Management

Course Number: 21.4610000—Year Long

This course provides students with the unique opportunity to design and build their own projects. After completing some of the engineering training stations the R&D students will design and build their own master project. During the first three years of this program students have been given projects to complete. In year four, the students take their gained knowledge to design and build their own projects.

Prerequisite: Engineering Applications.

Marketing Principles

Course Number: 08.4740000—Year long Marketing prepares students for future courses and careers in marketing, merchandising, and management. Emphasis is placed on selling, promotion, advertising, distribution, merchandising, and the marketing functions. Student activities include participation in group and individual projects, case studies, role-plays, school-based enterprises, and presentations. DECA, the co-curricular association of marketing students, provides supportive training in marketing occupational areas and leadership development opportunities. Students may select this course without being enrolled in the Marketing Internship program.

Introduction to Sports and Entertainment Marketing

Course Number: 08.4780000—Year long

This course introduces the student to the major segments of the Sports and Entertainment Industry and the social and economic impact it has on the local, state, national, and global economies. The products and services offered to consumers and the impact of marketing on these products and services are examined. Units include: Business Fundamentals, Product Mix, Product Knowledge, Product/Service Management, Business Regulations, Interpersonal Skills, Selling, Marketing-Information Management, Economics, Distribution, Pricing, Advertising, Publicity/Public Relations, Sales Promotion, Business Risks, and Organization. **Prerequisite: Marketing Principles.**

Advanced Sports and Entertainment Marketing

Course Number: 08.4850000—Year long

This course provides students opportunities to develop managerial and analytical skills and deepen their knowledge in sports/entertainment marketing. Topical units include: Marketing-Information Management, Selling, Publicity/Public Relations, Sales Promotion, Management of Promotion, Product Mix, Pricing, Positioning, and Marketing Planning. Project-based instruction, together with a variety of work-based learning activities, should be incorporated in this course to provide real-world application.

Prerequisite: Introduction to Sports & Entertainment Marketing

Fashion, Merchandising & Retailing

Course Number: 08.4210000—Year Long

This course will introduce the student to the fashion industry including the fundamentals of fashion marketing, types of businesses involved in the industry, and the array of career opportunities available in fashion marketing. Students will develop skills in such areas as fashion economics, marketing segmentation and target marketing, product selection and buying, and inventory systems. **Prerequisite: Marketing Principles.**



Johns Creek High School

5575 State Bridge Road
Johns Creek, GA 30022

Phone: 770.623.2138
Fax: 770.623.2139