

Milton High School

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Home of the Eagles

COURSE CATALOG

For Academic School Year 2020 – 2021



The Milton High School Learning Community will provide a safe, supportive, and challenging learning environment that fosters academic and personal excellence for all students as they prepare to succeed in the 21st century.

FULTON COUNTY BOARD OF EDUCATION

All information is current as of *January 2020*

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FULTON COUNTY SCHOOL SYSTEM
Graduation Requirements

CORE AREAS	UNITS OF CREDIT	COURSES
Language Arts	4	1 unit of 9th grade Literature and Composition 1 unit of American Literature and Composition 2 additional units
Science	4	1 unit of Biology 1 unit of Physical Science or Physics 1 unit of Chemistry, Earth Systems, Environmental Science, or AP Science 1 unit of an approved 4th science, including any AP, academic science, or career tech science
Mathematics	4	1 unit of GSE Algebra or GSE Accelerated Algebra Honors 1 unit of GSE Geometry or GSE Accelerated Geometry Honors 1 unit of GSE Algebra 2 or Accelerated GSE Pre-Calculus Honors 1 additional math unit (GSE Pre-Calculus or any higher-level mathematics course, including AP)
Social Studies	3	1 unit of World History 1 unit of United States History ½ unit of Economics ½ unit of American Government/Civics (<i>excludes AP Comparative Government</i>)
World Language* AND/OR CTAE** (Career, Technical and Agricultural Education) AND/OR Fine Arts	3	World Language – Japanese, French, Latin, and Spanish CTAE - Architectural Drawing & Design, Business & Computer Science, Allied Health, Engineering & Technology, Food & Nutrition, Law Enforcement Services, Teaching as a Profession, and Web & Digital Design Fine Arts - Art, Drama, and Music
Health/Physical Education	1	½ unit of Health ½ unit of Personal Fitness
Electives	4	4 additional elective courses
TOTAL UNITS (Minimum):	23	
<p>*Students planning to enter or transfer into a University System of Georgia institution or other post-secondary institution must take two units of the same world language.</p> <p>**Students wishing to receive industry certification in certain areas under Career, Technical and Agricultural Education programs must follow specific pathways.</p>		

The above represent minimum graduation requirements

Georgia Milestones End of Course Tests (EOC)

The following courses have an End of Course test: Algebra, Geometry, US History, Economics, 9th Lit/ Comp, American Lit/Comp, Biology, and Physical Science) that require the EOC. They must take the Georgia Milestones EOC and it will count as 20% of the course grade.

Sample Schedules

Sample Freshman Schedules

Fall Semester	Spring Semester
Language Arts	Language Arts
Math	Math
Biology	Biology
AP Gov.	AP Gov.
Elective	Elective
Elective	Elective

OR

Fall Semester	Spring Semester
Language Arts	Language Arts
Math	Math
Biology	Biology
World Language	World Language
Elective	Elective
Elective	Elective

Sample Sophomore Schedules

Fall Semester	Spring Semester
Language Arts	Language Arts
Math	Math
Physical Science	Physical Science
World History	World History
World Language	World Language
Personal Fitness	Elective

OR

Fall Semester	Spring Semester
Language Arts	Language Arts
Math	Math
Chemistry	Chemistry
AP World History	AP World History
World Language	World Language
Elective	Elective

Sample Junior Schedules

Fall Semester	Spring Semester
Language Arts	Language Arts
Math	Math
Chemistry	Chemistry
US History	US History
World Language	World Language
Elective	Elective

OR

Fall Semester	Spring Semester
Language Arts	Language Arts
Math	Math
Physics	Physics
AP US History	AP US History
Elective or World Lang.	Elective or World Lang.
Elective	Elective

Sample Senior Schedules

Fall Semester	Spring Semester
Language Arts	Language Arts
Math	Math
Science	Science
Economics	Elective
Elective	Elective
Elective	Elective

OR

Fall Semester	Spring Semester
Language Arts	Language Arts
Math	Math
Biology	Biology
Economics	Personal Fitness
Elective or World Lang.	Elective or World Lang.
Elective	Elective

Career Pathways at Milton

CAREER TECH	COURSES REQUIRED:
Allied Health	Intro to Healthcare Science, Essentials of Healthcare, Surgical Technician/Sports Medicine, Medical Internship (Work-Based Learning)
Business	Intro to Business & Tech, Legal Environment of Business, Entrepreneurship (not offered in the 20-21 school year)
Computer Science	Intro to Digital Tech, AP Computer Science Principles, AP Computer Science A OR Games Design/Animation/Simulation
Engineering and Technology	Foundations of Engineering & Tech, Engineering Concepts, Engineering Applications, Research Design & Project Management
Nutrition and Food Science	Food Nutrition & Wellness, Food for Life (not offered in the 20-21 school year), Food Science
Law Enforcement Services	Intro to Law, Criminal Science and Investigation (not offered in the 20-21 school year), Forensic Science
Teaching as a Profession	Examining the Teaching Profession, Contemporary Issues in Education, Teaching as a Professional Practicum
FINE ARTS	COURSES REQUIRED:
Music Performance Instrumental	3 courses in instrumental/vocal music and/or AP Music Theory with at least one course at level 2 or higher
Music Performance Vocal	3 courses in instrumental/vocal music and/or AP Music Theory with at least one course at level 2 or higher
Theatre Arts	3 courses in theatre arts with at least one course at level 2 or higher
Visual Arts 2D	Intro to Art (Visual Arts Comp 1), 3 courses in Draw/Paint, Graphics and/or AP Drawing and/or AP 2D Design with at least one course at level 2 or higher
Visual Arts 3D	Intro to Art (Visual Arts Comp 1), 3 courses in Ceramics, Sculpture and/or AP Drawing and/or AP 3D Design with at least one course at level 2 or higher
JOURNALISM	COURSES REQUIRED:
Journalism Newspaper	Minimum of 3 distinct courses in the publication and/or Photo I-III and/or Graphics I-IV with at least one course at level 2 or higher
Journalism Annual	Minimum of 3 distinct courses in the publication and/or Photo I-III and/or Graphics I-IV with at least one course at level 2 or higher
WORLD LANGUAGES	COURSES REQUIRED:
Japanese	3 Japanese courses OR 2 Japanese courses plus AP Japanese
French	3 French courses OR 2 French courses plus AP French
Latin	3 Latin courses OR 2 Latin courses plus AP Latin
Spanish	3 Spanish courses OR 2 Spanish courses plus an AP Spanish course
ADVANCED ACADEMIC	COURSES REQUIRED:
Mathematics	4 courses in Mathematics with at least one AP or post-secondary course AND 2 sequential courses in a world language
English/Language Arts	4 courses in English/Language Arts with at least one AP or post-secondary course AND 2 sequential courses in a world language
Science	4 courses in Science with at least one AP or post-secondary course AND 2 sequential courses in a world language
Social Studies	4 courses in Social Studies with at least one AP or post-secondary course AND 2 sequential courses in a world language.

Course Descriptions

English & Language Arts					
Course Title	Course #	Term	Grade(s)	Prerequisite(s)	Major Topics
9th Literature	23.0610000	Y	9	None	Reading strategies, interpretation of literature, writing, vocabulary, and grammar.
9th Literature Honors	23.0610040	Y	9	Teacher Recommendation	Advanced reading strategies, interpretation of literature, writing, vocabulary, and grammar.
World Literature	23.0630000	Y	10	9th Lit	Study of world literature and informational texts; an exploration of commonalities and differences among works of literature from different times and places around the world. Narrative, argument and synthesis writing; vocabulary and grammar instruction.
World Literature Honors	23.0630040	Y	10	9th Lit, Teacher Recommendation	Advanced study of world literature and informational texts; an exploration of commonalities and differences among works of literature from different times and places around the world. Narrative, argument and synthesis writing; vocabulary and grammar instruction.
11th Literature	23.0510000	Y	11	9 th Lit & 10 th Lit	Reading strategies, interpretation of American literature, vocabulary, writing, and grammar.
11th Literature Honors	23.0510040	Y	11	10 th Lit, Teacher Recommendation	Advanced reading strategies, interpretation of American literature, vocabulary, writing, and grammar.
AP Language & Composition	23.0530000	Y	11	10 th Lit, Teacher Recommendation	Advanced college level study of authors' styles and techniques, survey of American literature, review of writing skills, vocabulary, and preparation for AP exam.
AP Language & Composition – Senior only	23.0430000	Y	12	11 th Lit, Teacher Recommendation	Advanced college level study of authors' styles and techniques, review of writing skills, vocabulary, and preparation for AP exam.
AP Literature & Composition	23.0650000	Y	12	11 th Lit, Teacher Recommendation	Advanced college level study of literature and critical approaches, review of writing skills, vocabulary, and preparation for AP exam.
Dramatic Writing for Theatre, Film, and Television	52.0920000	Y	12	11 th Lit, Teacher Recommendation	Year-long on-level 12th grade core English course where students will learn how to write for theatre, film and television. Students will make skillful use of narrative storytelling techniques through the writing of plays, television scripts, and film screenplays.
College English	23.0630400	Y	12	Successful application to appropriate college	Freshman English curriculum at the collegiate level. This course is taken at the respective college. The student must apply with the college and MHS by the required deadline. The student must provide their own transportation.
Multi-Cultural Literature	23.0670000	Y	12	English 9th, 10th, & 11 th	Extensive analysis of literature by and about people of diverse ethnic backgrounds; research project; writing modes and genres, and essential conventions for reading, vocabulary, grammar, writing, and speaking.
Journalism I Newspaper	23.0320000	Y	9-12	Approval from Ms. Miller	Study of newspaper journalism and production of school newspaper.
Journalism II Newspaper	23.0330000	Y	10-12	Newspaper I and Application	Advanced study of newspaper journalism and production of school newspaper.
Journalism III Newspaper	23.0350000	Y	11-12	Newspaper II and Application	Advanced study of newspaper journalism and production of school newspaper.
Journalism IV Newspaper	23.0360000	Y	12	Newspaper III and Application	Advanced study of newspaper journalism and production of school newspaper.
Journalism I Annual	23.0320007	Y	9-12	Teacher Approval	Study of photo journalism and production of school yearbook.

Journalism II Annual	23.0330007	Y	10-12	Annual I and Application	Advanced study of photo journalism and production of school yearbook.
Journalism III Annual	23.0350007	Y	11-12	Annual II and Application	Advanced study of photo journalism and production of school yearbook.
Journalism IV Annual	23.0360007	Y	12	Annual III and Application	Advanced study of photo journalism and production of yearbook.
AP Seminar	23.0380000	Y	11-12	None	AP Seminar is a foundational course that engages students in cross-curricular conversations where they can explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. They synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision so they can craft and communicate evidence-based arguments. Exploring different points of view and making connections across disciplines are fundamental components of the AP Seminar experience. Students consider one topic or issue from multiple perspectives, many of which are divergent or competing. Analyzing topics through multiple lenses aids in interdisciplinary understanding and gives students a rich appreciation for the intricacy of important issues.

Mathematics					
Course Title	Course #	Term	Grade(s)	Prerequisite(s)	Major Topics
GSE Algebra I	27.0990000	Y	9	None	Students will formalize and extend the mathematics that they learned in the middle grades; 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; use algebra to deepen and extend understanding of geometric knowledge from prior grades; and tie together the algebraic and geometric ideas studied.
GSE Accelerated Algebra/Geometry A	27.0994040	Y	9	Teacher Recommendation	Formalize and extend the mathematics that students learned in the middle grades; 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; use algebra to deepen and extend understanding of geometric knowledge from prior grades; tie together the algebraic and geometric ideas studied.

GSE Geometry	27.0991000	Y	10	GSE Algebra I	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. The link between probability and data is explored through conditional probability.
GSE Accelerated Geometry B/Algebra II	27.0995040	Y	10	Teacher Recommendation	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. The link between probability and data is explored through conditional probability. Methods from probability and statistics are used 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. Students bring together all of their experience with functions and geometry to create models and solve contextual problems.
GSE Algebra 2	27.0992000	Y	11	GSE Geometry	Students will pull together and apply the accumulation of learning from their previous mathematics courses. Methods from probability and statistics will be used to draw inferences and conclusions from data. Students will expand their repertoire of functions to include polynomial, rational, and radical functions. The study of right triangle trigonometry will be expanded and then used to model periodic phenomena. Experiences with functions and geometry will help students to create models and solve contextual problems.
GSE Accelerated Pre-calculus Honors	27.0977040	Y	11	Teacher Recommendation	This course is intended to prepare students for a more intense study of mathematics. 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 organization structure in which to represent and solve complex problems. The concept of complex numbers is extended, and the coordinate plane is used to represent and operate upon vectors. Probability rounds out the course using counting methods.
GSE Pre-calculus	27.0974000	Y	12	GSE Algebra II	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.

GSE Calculus	27.0710000	Y	12	GSE Algebra II	Real numbers and the Cartesian plane; review of functions, limits and their properties; derivatives, differentiation, and application; anti-derivatives and indefinite integration; area and definite integrals; integration by substitution; the Trapezoidal rule; logarithmic, exponential and other transcendental functions; and applications and methods of Integration.
Advanced Mathematical Decision Making	27.0850000	Y	12	None	More in-depth study of statistical information, summaries, and methods of designing and conducting statistical studies; voting processes, modeling of data, and basic financial decisions; use of network models for making informed decisions.
AP Calculus AB	27.0720000	Y	11-12	Teacher Recommendation	Real numbers and the Cartesian plane; review of functions, limits and their properties; derivatives, differentiation, and application; anti-derivatives and indefinite integration; area and definite integrals; integration by substitution; the Trapezoidal rule; logarithmic, exponential and other transcendental functions; and applications and methods of Integration.
AP Calculus BC	27.0730000	Y	11-12	Teacher Recommendation	Review of functions, limits, and their properties; differentiation and integration; applications of differentiation; logarithmic, exponential, and other transcendental functions; applications of integration and integration techniques; improper integrals; and L'Hôpital's Rule
AP Statistics	27.0740000	Y	11-12	Teacher Recommendation	Introduction to statistics, descriptive statistics, probability; probability distributions and normal probability distributions; estimates and sample size; hypothesis testing; inferences from two samples; correlation and regression; multinomial experiments; analysis of variance; statistical process control; nonparametric statistics; and design and sampling.

Science

Course Title	Course #	Term	Grade(s)	Prerequisite(s)	Major Topics
Biology	26.0120000	Y	9	None	This curriculum includes abstract concepts such as the interdependence of organisms, the relationship of matter, energy, and organization in living systems, and biological evolution. Students investigate biological concepts through experience in laboratories and field work using the processes of inquiry. Major concepts and skills include: classification, the characteristics of science, structure and function of the six kingdoms, matter-energy relationships, DNA/RNA, homeostasis, Heredity, ecosystems, and biological evolution.
Biology Honors	26.0120040	Y	9	Teacher Recommendation	This curriculum includes abstract concepts such as the interdependence of organisms, the relationship of matter, energy, and organization in living systems, and biological evolution. Students investigate biological concepts through experience in laboratories and field work using the processes of inquiry. Major concepts and skills include: classification, the characteristics of science, structure and function of the six kingdoms, matter-energy relationships, DNA/RNA, homeostasis, Heredity, ecosystems, and biological evolution. There is a heavier focus on understanding concepts and data analysis in preparation for advanced sciences.

Physical Science	40.0110000	Y	10	None	This course is designed as a survey course of chemistry and physics. This curriculum includes the abstract concepts such as the conceptualization of the structure of atoms, motion and forces, and the conservation of energy and matter, the action/reaction principle, and wave behavior. Students investigate physical science concepts through experience in laboratories and field work using the processes of inquiry. Major concepts and skills include: classifications of matter, atomic theory/configuration, periodicity, bonding/nomenclature, chemical reactions, Law of conservation of matter, solutions, acid/base chemistry, phase changes, Laws of motion and forces, energy transformation, electrical/magnetic forces, and wave properties.
Physical Science Honors	40.0110040	Y	10	Teacher Recommendation	This course is designed as a survey course of chemistry and physics. This curriculum includes the abstract concepts such as the conceptualization of the structure of atoms, motion and forces, and the conservation of energy and matter, the action/reaction principle, and wave behavior. Students investigate physical science concepts through experience in laboratories and field work using the processes of inquiry. Major concepts and skills include: classifications of matter, atomic theory/configuration, periodicity, bonding/nomenclature, chemical reactions, Law of conservation of matter, solutions, acid/base chemistry, phase changes, Laws of motion and forces, energy transformation, electrical/magnetic forces, and wave properties. There is a heavier focus on understanding concepts and data analysis in preparation for advanced sciences.
Chemistry	40.0510000	Y	11	Teacher Recommendation	This curriculum includes abstract concepts such as the structure of atoms, structure and properties of matter, and the conservation and interaction of energy and matter. Students investigate chemistry concepts through experience in laboratories and field work using the processes of inquiry. Major concepts and skills include: classifications of matter, atomic theory/configuration, periodicity, bonding/nomenclature, chemical reactions, Law of conservation of matter, empirical/molecular formulae, stoichiometry, kinetic molecular theory/phase changes, gas laws, solutions/concentrations, acid/base chemistry.
Honors Chemistry	40.0510040	Y	10-11	Teacher Recommendation	This curriculum includes abstract concepts such as the structure of atoms, structure and properties of matter, and the conservation and interaction of energy and matter. Students investigate chemistry concepts through experience in laboratories and field work using the processes of inquiry. Major concepts and skills include: classifications of matter, atomic theory/configuration, periodicity, bonding/nomenclature, chemical reactions, Law of conservation of matter, empirical/molecular formulae, stoichiometry, kinetic molecular theory/phase changes, gas laws, solutions/concentrations, acid/base chemistry. There is a heavier focus on understanding concepts and data analysis in preparation for advanced sciences.

Physics	40.0810000	Y	11-12	Teacher Recommendation	This curriculum includes abstract concepts such as interactions of matter and energy, velocity, acceleration, force, energy, momentum, and charge. Students investigate physics concepts through experience in laboratories and field work using the processes of inquiry. Major concepts and skills include kinematics, energy and its transformations, Electricity, magnetism, wave properties.
Human Anatomy & Physiology Honors	26.0730040	Y	12	Biology & Chemistry	The sciences of anatomy and physiology are the foundation for understanding the structures and functions of the human body. Students will investigate how the body constantly regulates its internal environment and how the various individual systems that compose the human body cooperate with one another to maintain the health of the body as a whole. Areas of study include the organization of the body, protection, support and movement, providing internal coordination and regulation, processing and transporting, and reproduction, growth, and development. Students will also establish a basic vocabulary that allows them to speak about the body in a way that is understood by scientists and health care professionals alike.
Environmental Science	26.0611000	Y	11-12	Biology & Physical Science/Chemistry	Environmental science is an interdisciplinary course of how nature works and how things in nature are interconnected. The following themes are central to the study of environmental science: sustainability; natural resources; natural resource degradation; solutions to environmental problems; tradeoffs in finding acceptable solutions; the importance of individual actions in implementing solutions; and sound science. Areas of study include the interconnection of all life, the flow of energy and cycling of matter, the stability and change in an ecosystem, conservation and resource allocation, and the evaluation of human activity and technology on the environment.
Earth Systems	40.0640000	Y	11-12	Biology & Physical Science/Chemistry	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. Instruction should focus on inquiry and development of scientific explanations, rather than mere descriptions of phenomena. Case studies, laboratory exercises, maps, and data analysis should be integrated into units. Special attention should be paid to topics of current interest (e.g., recent earthquakes, tsunamis, global warming, price of resources) and to potential careers in the geosciences. Major Concepts/Skills: Earth origin, composition, and structure, Plate tectonics and the rock cycle, Landscape evolution, Geologic hazards, Sedimentary environments, Geologic time and correlation, Earth and life history, Life-environment relationships, Hydrologic cycle, Insolation and global heat distribution, Weather and climate, Matter/energy cycles, Mineral and fossil fuel resources.

AP Biology	26.0140000	Y	10-12	Biology & Chemistry or are taking Chemistry concurrently with AP Biology.	<p>Students should have successfully completed Biology and Chemistry or are taking Chemistry concurrently with AP Biology. The course is based on four Big Ideas, which encompass core scientific principles, theories, and processes that cut across traditional boundaries and provide a broad way of thinking about living organisms and biological systems. The following are Big Ideas:</p> <ul style="list-style-type: none"> • The process of evolution explains the diversity and unity of life. • Biological systems utilize free energy and molecular building blocks to grow, to reproduce, and to maintain dynamic homeostasis. • Living systems store, retrieve, transmit, and respond to information essential to life processes. • Biological systems interact, and these systems and their interactions possess complex properties. <p>Twenty-five percent of instructional time is devoted to hands-on laboratory work with an emphasis on inquiry-based investigations. Investigations require students to ask questions, make observations and predictions, design experiments, analyze data, and construct arguments in a collaborative setting, where they direct and monitor their progress.</p>
AP Chemistry	40.0530000	Y	11-12	General Chemistry & Algebra II	<p>The key concepts and related content that define the AP Chemistry course and exam are organized around underlying principles called the Big Ideas. They encompass core scientific principles, theories, and processes that cut across traditional boundaries and provide a broad way of thinking about the particulate nature of matter underlying the observations students make about the physical world. The following are Big Ideas:</p> <ul style="list-style-type: none"> • The chemical elements are the building blocks of matter, which can be understood in terms of the arrangements of atoms. • Chemical and physical properties of materials can be explained by the structure and the arrangement of atoms, ions, or molecules and the forces between them. • Changes in matter involve the rearrangement and/or reorganization of atoms and/or the transfer of electrons. • Rates of chemical reactions are determined by details of the molecular collisions. • The laws of thermodynamics describe the essential role of energy and explain and predict the direction of changes in matter. • Bonds or attractions that can be formed can be broken. These two processes are in constant competition, sensitive to initial conditions and external forces or changes. <p>Twenty-five percent of instructional time is devoted to inquiry-based laboratory investigations. Students ask questions, make observations and predictions, design experiments, analyze data, and construct arguments in a collaborative setting, where they direct and monitor their progress.</p>

AP Environmental Science	26.062000	Y	10-12	Teacher Recommendation	<p>The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science, through which students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental Science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. There are several unifying themes that cut across topics. The following are course themes:</p> <ul style="list-style-type: none"> • 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. • Human survival depends on developing practices that will achieve sustainable systems. <p>Twenty-five percent of instructional time is devoted to inquiry-based laboratory investigations. Students ask questions, make observations and predictions, design experiments, analyze data, and construct arguments in a collaborative setting, where they direct and monitor their progress</p>
AP Physics I	40.0831000	Y	11-12	Geometry & be concurrently taking Algebra II or an equivalent course.	<p>AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Students explore principles of Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. The course is based on six Big Ideas, which encompass core scientific principles, theories, and processes that cut across traditional boundaries and provide a broad way of thinking about the physical world. The following are Big Ideas:</p> <ul style="list-style-type: none"> • Objects and systems have properties such as mass and charge. Systems may have internal structure. • Fields existing in space can be used to explain interactions. • The interactions of an object with other objects can be described by forces. • Interactions between systems can result in changes in those systems. • Changes that occur as a result of interactions are constrained by conservation laws. • Waves can transfer energy and momentum from one location to another without the permanent transfer of mass and serve as a mathematical model for the description of other phenomena.

AP Physics C: Mechanics	40.0841011	Y	12	Calculus	<p>AP Physics C: Mechanics is equivalent to a one-semester, calculus based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as kinematics; Newton’s laws of motion; work, energy and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Introductory differential and integral calculus is used throughout the course. The AP Physics C: Mechanics course applies both differential and integral calculus and provides instruction in each of the following six content areas:</p> <ul style="list-style-type: none"> • Kinematics • Newton’s laws of motion • Work, energy and power • Systems of particles and linear momentum • Circular motion and rotation • Oscillations and gravitation <p>AP Physics C: Mechanics should include a hands-on laboratory component comparable to a semester-long introductory college level physics laboratory. Students should spend a minimum of 20 percent of instructional time engaged in hands-on laboratory work. Students ask questions, make observations and predictions, design experiments, analyze data, and construct arguments in a collaborative setting, where they direct and monitor their progress. Each student should complete a lab notebook or portfolio of lab reports.</p>
AP Physics C: Electricity	40.0842012	Y	12	AP Physics C: Mechanics	<p>AP Physics C: Electricity and Magnetism is a one-semester, calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Introductory differential and integral calculus is used throughout the course.</p>
AP Research	26.0660000	Y	None	11-12	<p>In this full-year course, students will utilize research and inquiry methodology to develop, manage, and conduct an in-depth study or investigation of an area of their own interest, culminating in a 4,000-5,000 word paper. Students will then present (using appropriate media), and defend the research design, approach, and findings. The AP score is determined from the research paper and presentation.</p>

Social Studies

A Social Studies class is not required at the 9th grade level. AP Government for 9th grade and AP Human Geography for 9th grade (both year-long) are only suggested for those students who are ADVANCED in reading comprehension, writing, critical thinking and analysis. Both AP courses are the equivalent of a college level introductory course that requires a great deal of outside work. Students are only allowed to register for these courses as a 9th grader with the recommendation of their teacher.

Course Title	Course #	Term	Grade(s)	Prerequisite(s)	Course Description
AP U.S. Government and Politics <i>(year-long course for teacher recommended 9th graders only)</i>	45.0520000	Y	9	Teacher Recommendation	The AP course in U.S. Government and Politics is a year-long course. It is designed to assist students in becoming knowledgeable about the Constitution, the varied political beliefs and behaviors which shape U.S. government, the role of political parties and interest groups, the organization and power of Congress, the president, the bureaucracy, the federal courts, and the development of civil rights and liberties. Students will expand their knowledge by participating in moot courts, mock trials, debates, panel discussions, current issues discussions, and mock elections. In order for a student to be successful in this class, he/she should possess these specific skills: ability to read college level texts independently; ability to critically analyze written materials; ability to take notes and move rapidly through material; ability to work independently outside of class with disciplined work habits; ability to recognize new ideas and perspectives, with a willingness to learn about and respect differences of opinion. Outside commitments: reading and completing study guide materials 4-5 nights a week. Additional performance tasks will require reading and research. This class is comparable to an introductory college political science course and satisfies the state of Georgia American Government graduation requirement.
AP Human Geography <i>(year-long course for teacher-recommended 9th graders only)</i>	45.0770000	Y	9	Teacher Recommendation	Human Geography is a branch of geography that deals with the way humans interact with their environment. We will study demographics, migration, linguistics, religion, political geography, urbanization and industrialization. Specific skills for success: above average reading ability and above average writing skills. Outside commitments: vocabulary quizzes and bi-weekly map quizzes in addition to nightly textbook reading. This course is equivalent to a college course and will be more rigorous than a middle school TAG course or a high school honors course.
World History	45.0830000	Y	10	None	The high school world history course provides students with a comprehensive, intensive study of major events and themes in world history. Students begin with a study of the earliest civilizations worldwide and continue to examine major developments and themes in all regions of the world. The course culminates in a study of change and continuity and globalization at the beginning of the 21st century. Topics include prehistoric culture, ancient civilizations, classical civilizations, the medieval world, the Age of Exploration, Enlightenment, French Revolution, decline of colonial empires in America, Industrial Revolution, nationalism and imperialism, totalitarianism, WWI, WWII, and the modern world.
AP World History	45.0811000	Y	10	Teacher Recommendation	Teaching students to think historically, to construct historical arguments and to analyze data within an historical context will be the focus of AP World History. With material from 8000 BCE to the present serving as the basis for study, students will explore multiple perspectives as they analyze global patterns that have occurred over time. Students will spend a great deal of time writing, reading, and interpreting artifacts as they strive to become true historians themselves.

U. S. History	45.0810000	Y	11	None	The high school United States history course provides students with a comprehensive, intensive study of major events and themes in United States history. Beginning with early European colonization, the course examines major events and themes throughout United States history. The course concludes with significant developments in the early 21st century. Topics include colonization, the revolutionary and colonial eras, manifest destiny, Civil War and reconstruction, urbanization and Industrialism, progressive era, imperialism, WWI & WWII, The Cold War, Vietnam, and the Decades of 1950 – 2000.
AP U.S. History	45.0820000	Y	11	Teacher Recommendation	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 challenges and issues in U.S. History. The study of U.S. History begins with a brief review of the discovery and settlement of the Americas and continues into a rigorous in-depth study of U.S. History from the mid-17th century to the present time. Students will learn to analyze and interpret primary sources, to take notes from lectures and printed materials, and to write essays and analytical/historiographical papers. Topics include: Multicultural heritage, Colonial period, American Revolution, Jacksonian Democracy and sectionalism, Civil War and Reconstruction, Triumph of the American Nation, Gilded Age, Progressivism and immigration, Great Depression and New Deal, Labor movement, Civil Rights and women’s movement, World Wars I and II, Cold War, and New World Order.
Economics	45.0610001	S	12	U.S. History	The economics course provides students with a basic foundation in the field of economics. The course has five sections: fundamental concepts, microeconomics, macroeconomics, international economics, and personal finance. In each area, students are introduced to major concepts and themes concerning that aspect of economics. Topics include supply and demand, market forces, money, banking and capital, organization of natural resources, the national economy and global interdependence.
AP Macroeconomics	45.0620011	S	12	U.S. History	AP Macroeconomics is a semester-long introductory college-level course that focuses on the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination; it also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Extensive math skills are not required; however, students must learn to use graphs, charts, and data to analyze, describe, and explain economic concepts. In order for a student to be successful in this class, he/she should possess these specific skills: ability to read college level texts independently; ability to critically analyze graphs; ability to take notes and move rapidly through material; ability to work independently outside of class with disciplined work habits. This semester-long course will prepare students for the AP Macroeconomics exam in May and also satisfies the Georgia graduation requirement for Economics.

<p>AP Economics (Micro 1st Semester/Macro 2nd Semester) Note: Students must sign up for BOTH semester-long courses</p>	<p>45.0630011 45.0620011</p>	<p>Y</p>	<p>12</p>	<p>U.S. History</p>	<p>AP Microeconomics & Macroeconomics is a fast paced, yearlong, college-level course that focuses on the decision making of individuals, businesses, and the government. In this yearlong course, students will study a variety of economic theories and analyze their practical application in the real world. This yearlong course will cover both microeconomics and macroeconomics. Microeconomics focuses on the supply and demand for products, the labor markets, and the role competition plays in a free market system. Macroeconomics focuses on the economy as a whole, including economic measures, economic growth, fiscal policy, monetary policy, and international economics. Extensive math skills are not required; however, students must learn to use graphs, charts, and data to analyze, describe, and explain economic concepts. In order for a student to be successful in this class, he/she should possess these specific skills: ability to read college level texts independently; ability to critically analyze graphs; ability to take notes and move rapidly through material; ability to work independently outside of class with disciplined work habits. This yearlong class is comparable to an introductory college economics course and will prepare students for the AP Macroeconomics & Microeconomics exams in May. This course also satisfies the Georgia graduation requirement for Economics.</p>
<p>Sociology</p>	<p>45.0310003</p>	<p>S</p>	<p>11-12</p>	<p>None</p>	<p>The emphasis of Sociology is to show the complexity of social life with its inter-connections between social events and conditions. Topics will include adolescence and socialization, the institutional structure of society, stratification and race relations and understanding social change. The course will also cover social problems in the U.S. and how they affect the individual and society as a whole. Crime, poverty, race and ethnic relations will be studied as well.</p>

<p>AP U.S. Government & Politics (semester-long for upper classmen; fulfills the state requirement for American Government)</p>	45.0520011	S	12	Teacher Recommendation	<p>The AP course in U.S. Government and Politics is a semester-long course. It is designed to assist students in becoming knowledgeable about the Constitution, the varied political beliefs and behaviors which shape U.S. government, the role of political parties and interest groups, the organization and powers of Congress, the president, the bureaucracy, the federal courts, and the development of civil rights and liberties. Students will play roles in simulations such as moot courts, participate in debates, read and analyze current issues, take notes from lectures, and answer multiple choice and free response questions. Outside of class, students will attend local government meetings and <i>may</i> visit the Carter Presidential Museum and Library, the Martin Luther King Center, the State Capitol, and other museums in the Atlanta area that interest the student. In order for a student to be successful in this class, he/she should possess these skills: ability to read college level texts independently; ability to critically analyze written works; ability to take notes and move rapidly through material; ability to work independently outside of class with disciplined work habits; ability to recognize perspectives, with a willingness to learn about and respect differences of opinion. Outside commitments: reading and completing study guide materials 4-5 nights a week, working approximately 45 minutes - one hour a night; attending at least one local government meeting; additional performance tasks that will require reading and research. This class is comparable to an introductory college political science course and satisfies the state of Georgia American Government graduation requirement.</p>
<p>American Government & Politics</p>	45.0570001	S	12	None	<p>The state-mandated American Government course provides students with a background in the philosophy, functions, and structure of the United States government. Students examine the philosophical foundations of the United States government and how that philosophy developed. Students also examine the structure and function of the United States government and its relationship to states and citizens. The course will cover U.S. constitutional principles, the branches of the federal government, factors influencing the political process, the role of the media and political parties, and civil rights and responsibilities. Students will construct and evaluate arguments, use documents and other primary source data to analyze points of view, analyze and interpret information, and write document-based and comparative analysis essays.</p>

AP Comparative Gov. & Politics	45.0530011	S	11-12	Teacher Recommendation	AP Government and Politics: Comparative is a semester- long elective that introduces students to fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of country settings. The course aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain differences in processes and policy outcomes, and to communicate to students the importance of global political and economic changes. In addition to covering the major concepts that are used to organize and interpret what we know about political phenomena and relationships, the course covers six specific countries and their governments: China, Great Britain, Iran, Mexico, Nigeria, and Russia. In order for a student to be successful in this class, he/she should possess these specific skills: ability to read college level texts independently; ability to critically analyze written materials; ability to take notes and move rapidly through material; ability to work independently outside of class with disciplined work habits; ability to recognize new ideas and perspectives, with a willingness to learn about and respect differences of opinion. Outside commitments: reading and completing study guide materials 4-5 nights a week, working app. one hour a night. Additional performance tasks will require outside reading and research. This class is comparable to an introductory college political science course.
AP Psychology	45.0160000	Y	11-12	Teacher Recommendation	The purpose of Advanced Placement Psychology is to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Throughout the course, students will be exposed to the psychological facts, principles and phenomena associated with each of the major subfields of psychology. In addition, the course will stress the need to think like a psychologist. As author and social psychologist David Myers, notes – to think as a psychologist, one must learn to “restrain intuition with critical thinking, judgmentalism with compassion, and illusion with understanding” (Sternberg, 1997). Whether students choose to pursue a career in psychology or in an entirely different field, this habit of mind will be of great value.

World Language					
Course Title	Course #	Term	Grade(s)	Prerequisite(s)	Major Topics
French I	60.0110000	Y	9-12	None	Sound systems, French alphabet, familiar words and phrases, greetings, family and friends, numbers and time, dates, weather/seasons, food/meals, city life, shopping, leisure, and culture.
French II	60.0120000	Y	9-12	French 1	School and class routines, family and relations, self and daily routines, clothing, body parts, shopping, money, banking, directions, community sites, food, meals, transportation, holidays, vacations.
French II Honors	60.0120040	Y	9-12	French 1, Teacher Recommendation	In-depth study of all topics in French 2 with heavy emphasis on listening and speaking proficiency with additional authentic francophone sources; beginning preparation for AP French.
French III	60.0130000	Y	10-12	French 2, Teacher Recommendation	Daily routines, family relations, history, geography, travel, accommodations, festivals, leisure time, food, current events, careers, aspects of art and literature.

French III Honors	60.0130040	Y	10-12	French 2, Teacher Recommendation	In-depth study of all topics in French 3 with heavy emphasis on listening and speaking proficiency with additional authentic francophone sources; continuing preparation for AP French.
French IV	60.0140000	Y	10-12	French 2, Teacher Recommendation	In-depth study of all topics in French 3 with heavy emphasis on listening and speaking proficiency with additional authentic francophone sources; continuing preparation for AP French.
French IV Honors	60.0140040	Y	11-12	French 3, Teacher Recommendation	Intense development of communicative, cultural, and advanced grammatical competence; final preparation for AP French; near-exclusive use of French in class.
AP French Language and Culture	60.0170000	Y	11-12	French 3, Teacher Recommendation	College-level course that provides intense preparation for the AP Language and Culture exam using authentic francophone sources; in-depth reading, writing, speaking, and listening on themes of global challenges, science and technology, contemporary life, families and communities, identities, and beauty; exclusive use of French in class.
Japanese I	62.0310000	Y	9-12	None	This course assumes no prior experience with Japanese. Japanese 1 introduces basic structures of grammar and vocabulary while touching on the four major language skills of speaking, listening, reading, and writing. Students will begin to use novice presentational skills both individually and grouped. Major themes include school, family, pastimes, weather, and clothing as well as an introduction to geography and Japanese culture. Daily practice is required for successful completion in order to be prepared for Japanese 2 and beyond.
Japanese II	62.0320000	Y	9-12	Japanese I	This course assumes successful completion of Japanese 1. Japanese 2 expands on the four major skills of speaking, listening, reading, and writing while integrating more complex grammar and vocabulary structures. Students will continue to practice their rehearsed presentational skills while moving away from scripted presentations. Major themes include childhood and family, travel, food, and media as well as further study of the geography and the Japanese culture. Daily practice is required for successful completion in order to be prepared for Japanese 3 and beyond.
Japanese II Honors	60.0320040	Y	9-12	Teacher Recommendation	This course assumes both successful completion and Japanese 1 and teacher recommendation. Japanese 2 Honors follows the Japanese 2 curriculum at a faster pace, allowing for expansion on vocabulary, grammar, and culture topics presented. Numerous authentic materials are used throughout the course to supplement reading and listening activities. This academically demanding course is designed for highly motivated students who do not require multiple repetitions of lessons. Students are challenged with more open-ended and higher-order thinking assignments which require them to create with the language. Instruction is completed entirely in Japanese.

Japanese III	62.0330000	Y	10-12	Japanese II	This course assumes successful completion of Japanese 1 and 2. Japanese 3 is a rigorous course which introduces many new tenses while integrating those tenses studied in Japanese 1 and 2. There is a focus on synthesizing prior knowledge with more complex structures as students work towards a conversational level of communication. Presentational skills are further developed as to include impromptu speaking situations. Major themes include environment, fashion, interpersonal relationships, outdoor activities, holidays, and politics. More thorough study of the Japanese culture will be integrated throughout the course. Daily practice is required for successful completion in order to be prepared for Japanese 4 Honors and beyond.
Japanese III Honors	62.0340040	Y	10-12	Teacher Recommendation	This course assumes both successful completion and Japanese 1 and 2 and teacher recommendation. Japanese 3 Honors follows the Japanese 3 curriculum at a faster pace, allowing for expansion on vocabulary, grammar, and culture topics presented. Numerous authentic materials are used throughout the course to supplement reading and listening activities. This academically demanding course is designed for highly motivated students who do not require multiple repetitions of lessons. Students are challenged with more open-ended and higher-order thinking assignments which require them to create with the language. Instruction is completed entirely in Japanese.
Japanese IV Honors	62.0340040	Y	11-12	Teacher Recommendation	This course assumes both successful completion of Japanese 1, 2, 3 and teacher recommendation. Japanese 4 Honors follows the Japanese 4 curriculum at a faster pace, allowing for expansion on vocabulary, grammar, and culture topics presented. Numerous authentic materials are used throughout the course to supplement reading and listening activities. This academically demanding course is designed for highly motivated students who do not require multiple repetitions of lessons. Students are challenged with more open-ended and higher-order thinking assignments which require them to create with the language. Instruction is completed entirely in Japanese.
AP Japanese	62.0196000	Y	11-12	Teacher Recommendation	In this course, students will learn how to use the four language skills (speaking, listening, reading, and writing) in real-life situations. Students will engage in discussions, interviews, and debates, give presentations and write articles on a variety of topics throughout the course. The language will be studied as a whole through content-based themes such as Japanese history, tradition contemporary culture, and social issues.
Spanish I	60.0710000	Y	9-12	None	Numbers, weather, colors, celebrations, family, routines, self, school, clothing, shopping, food, transportation, body parts, health/emotions, animals, leisure time, sports, geography.
Spanish II	60.0720000	Y	9-12	Spanish I	Leisure time, travel, food/restaurants, fine arts, news, childhood experiences, family, celebrations, daily routines, beach, chores, and health; Spanish-speaking countries and Latino culture in the U.S.
Spanish II Honors	60.0720040	Y	9-12	Teacher Recommendation	In-depth study of all topics in Spanish 2 with heavy emphasis on listening and speaking proficiency with additional authentic Spanish-language sources; beginning preparation for AP Spanish.

Spanish III	60.0730000	Y	10-12	Spanish 2	Vacations and hobbies, health and diet, urban life and culture, music, geography and politics, clothing, celebrations, household, environment, occupations, and fashion; Spanish-speaking countries and Latino culture in the U.S.
Spanish III Honors	60.0730040	Y	10-12	Teacher Recommendation	In-depth study of all topics in Spanish 3 with heavy emphasis on listening and speaking proficiency with additional authentic Spanish-language sources; continuing preparation for AP Spanish.
Spanish IV Honors	60.0740040	Y	11-12	Teacher Recommendation	Intense development of communicative, cultural, and advanced grammatical competence; final preparation for AP Spanish; near-exclusive use of Spanish in class.
Spanish AP Language and Culture	60.0770000	Y	12	Teacher Recommendation	College-level course that provides intense preparation for the AP Language and Culture exam using authentic Spanish-language sources; in-depth reading, speaking, and listening on themes of global challenges, science and technology, contemporary life, families and communities, identities, and beauty; exclusive use of Spanish in class.
Latin I	61.0410000	Y	9-12	None	Latin pronunciation, vocabulary and derivatives; basic grammar, reading, mythology; Roman history, culture, and art; Pompeii; Alexandria; Roman Britain.
Latin II	61.0420000	Y	10-12	Latin 1	Further study of pronunciation, vocabulary, derivatives; Latin grammar, reading, mythology; Roman history and culture – Roman Britain, Roman military, building and engineering, entertainment, society, the city of Rome, the Roman forum.
Latin II Honors	61.0420040	Y	10-12	Teacher Recommendation	In-depth study of all topics in Latin 2; in addition, literary analysis of texts from original Roman history.
Latin III Honors	61.0430040	Y	11-12	Teacher Recommendation	Further study of the Latin language, including grammar, vocabulary, and literature. Students also study Roman history, culture, mythology, and religion by reading original ancient texts.
Latin IV	61.0440000	Y	11-12	Latin 3	Further study of the Latin language and ancient Roman culture, including grammar, vocabulary, derivatives, literature, history, and culture. Students will survey authentic Latin texts including Livy, Horace, Catullus, Ovid, Vergil, and Caesar.
AP Latin	61.0470000	Y	11-12	Teacher Recommendation	College-level course that provides intense preparation for the AP Latin exam; intense study of Virgil's Aeneid (history of the Roman people) and Gaius Julius Caesar's De Bello Gallico (history of the Gallic war).

Career & Technical Education

Course Title	Course #	Term	Grade(s)	Prerequisite(s)	Course Description
Introduction to Healthcare Science	25.5210000	Y	9-12	None	Health, wellness, and preventative care are evaluated, as well as ethical and legal responsibilities of today's healthcare provider. Fundamental healthcare skills development is initiated including medical terminology, microbiology, and basic life support. First course in Sports Medicine and Surgical Technology Pathways.
Essentials of Therapeutic Services	25.4400000	Y	10-12	Introduction to Healthcare	Anatomy course addressing the physiology of each body system, along with the investigation of common diseases, disorders and emerging diseases. Second course in Sports Medicine and Surgical Technology Pathways.

Surgical Technician	25.4470000	Y	11-12	Introduction to Healthcare and Essentials of Therapeutic Services	Fundamental surgical technician skills and knowledge, including safety, infection control, pharmacology, surgical equipment, surgical terminology, perioperative procedures, instruments, and sterilization. Third course in Surgical Technology Pathway.
Sports Medicine	25.4460000	Y	11-12	Introduction to Healthcare and Essentials of Therapeutic Services	Anatomy and physiology assessment, preventative and rehabilitative care, medical terminology, kinesiology, patient assessment, record keeping, and basic life support. Third course in Sports Medicine Pathway.
Intro to Business & Technology	7.4413000	Y	9-12	None	Business characteristics, ownership and communication, finance, human resources, leadership, international business, marketing. First course in Entrepreneurship Pathway.
Legal Environment of Business	06.4150000	Y	10-12	Introduction to Business & Technology	Rights and responsibilities in personal law and business law; application activities to examine consumer, citizen and worker roles; US legal system and employer-employee relations. This course is offered in alternate years with Entrepreneurship. Second or third course in Entrepreneurship Pathway. Offered in the 2018-2019 school year.
Entrepreneurship <i>This course is not offered in the 20-21 school year</i>	06.4161000	Y	10-12	Introduction to Business & Technology	Market research, funding, location, marketing plan, management, accounting process, business ethics, culture, day to day operations, characteristics of an entrepreneur, goal setting and business plan. This course is offered in alternate years with Legal Environment of Business. Second or third course in Entrepreneurship Pathway.
Intro to Digital Technology	11.4150000	Y	9-12	None	Introduction to computers, multimedia graphics, databases, web design, and programming. First course in Computer Science & Game Design Pathways.
AP Computer Science Principles	11.4710000	Y	10-12	Intro to Digital Technology	Introduction to the central ideas of computing and computer science, ideas of computational thinking, and activities that show how computing and computer science change the world. This course qualifies as the fourth science course for graduation and for college admissions. It meets the RIGOR requirement. Second course in Computer Science Pathway.
AP Computer Science A	11.0160010	Y	10-12	Required prerequisite: AP Computer Science Principles	Application of data abstraction and encapsulation, class specifications and relationships among classes, design and interface, modification of existing code, extension of existing code using inheritance, and analysis of algorithms. This course qualifies as the fourth science course for graduation and for college admissions. It meets the RIGOR requirement. Third course in Computer Science Pathway.
Game Design: Animation & Simulation	11.4290000	Y	10-12	Intro to Digital Technology & AP CS Principles OR AP Computer Science	Students completing this course will gain an understanding of the fundamental principles used at every stage of the game creation process. First, game genres and modes of play are explored in terms of the psychology of incentives, motivation to play, and social networking. Next, virtual characters and non-player characters are reviewed from concept drawing to 2D and 3D art, rigging, and animation. Next, level design, storytelling, and animation are added to develop a virtual world around the characters. These same techniques are at work in training simulator systems, virtual shopping experiences, augmented reality, and a number of other important career options. Schools offering this program can provide a foundation of traditional drawing, illustration, and art courses to make way for the 2D and 3D animation, storytelling, character development, audio, and game technology.

Foundations of Engineering & Technology	21.4250000	Y	9-12	None	Robotics and manufacturing, computer numerical control, automation, research and computer-aided design, advertising and presentation, radio-audio communication, laser and fiber optics, flight and space, solar energy, electricity and electronics, transportation, simple machines, and pneumatics/hydraulics. First course in Engineering & Technology Pathway.
Engineering Concepts	21.4710000	Y	10-12	Foundations of Engineering & Technology	Technological concepts, process and systems, problem-solving, safety, teamwork, equipment, analysis and evaluation, and career opportunities. Second course in Engineering & Technology Pathway.
Engineering Applications	21.4720000	Y	11-12	Engineering Concepts	Engineering concepts, process and systems, problem solving, safety, teamwork, equipment, analysis and evaluation, and career opportunities. Third course in Engineering & Technology Pathway.
Research Design & Project Management	21.4610000	Y	11-12	Engineering Applications	Research, Design, and Project Management is the fourth course in the engineering pathway. This course provides students with opportunities to work with students from other pathways as a member of a design team. Research strategies, prototype testing and evaluation, and communication skills are emphasized.
Audio & Video Technology & Film I	10.5181000	Y	9-12	Application only. Approved by Mr. Hopkins	This course is the foundational course in the Audio & Video Technology & Film pathway. The course prepares students for employment or entry into a postsecondary education program in the audio and video technology career field. Topics covered may include, but are not limited to: terminology, safety, basic equipment, script writing, production teams, production and programming, lighting, recording and editing, studio production, and professional ethics. Skills USA and Technology Student Association (TSA) are examples of, but not limited to, appropriate organizations for providing leadership training and/or for reinforcing specific career and technical skills and may be considered an integral part of the instructional program. All material covered in Audio & Video Technology & Film I will be utilized in subsequent courses. An application must be completed to be approved for course. Please see Mr. Hopkins for the application. The application must be submitted by the last day for initial schedule requests.
Audio & Video Technology & Film II	10.5191000	Y	10-12	Audio & Video Technology & Film I	This year-long course is the second in a series of three that prepares students for a career in Audio Video Technology and Film production and/or to transfer to a postsecondary program for further study. Topics include Planning, Writing, Directing and Editing a Production; Field Equipment Functions; Operational Set-Up and Maintenance; Advanced Editing Operations; Studio Productions; Performance; Audio/Video Control Systems; Production Graphics; Career Opportunities; and Professional Ethics. Skills USA and Technology Student Association (TSA) are examples of, but not limited to, appropriate organizations for providing leadership training and/or for reinforcing specific career and technical skills and may be considered an integral part of the instructional program.
Audio & Video Technology & Film III	10.5201000	Y	10-12	Audio & Video Technology Film II	The last class of the pathway is geared towards careers in which students may be able to pursue. Students will manage a student-led broadcast and work, both individually and cooperatively on a variety of projects. You will cover: film making, career opportunities, professional ethics, copyright.

Food, Nutrition & Wellness	20.4161000	Y	9-12	None	This is an essential course designed to introduce students to the field of nutrition and wellness including major trends, issues, employment opportunities, and career paths. Some units are: "Personal Wellness Plan", "Extreme Nutrition Makeover", "What's Growing in the Kitchen", "Get Your Body Moving!", "Beautiful Foods Around the World", and "Forecast for Your Future Wellness".
Food for Life <i>This course is not offered for the 20-21 school year</i>	20.4140000	Y	10-12	Food, Nutrition & Wellness	Food for Life is an advanced course in food and nutrition that addresses the variation in nutritional needs at specific stages of the human life cycle: lactation, infancy, childhood, adolescence, and adulthood including old age. The most common nutritional concerns, their relationships to food choices and health status and strategies to enhance well-being at each stage of the lifecycle are emphasized. This course provides knowledge for real life and offers students a pathway into dietetics, consumer foods, and nutrition science careers with additional education at the post-secondary level. Can be counted as fourth Science credit if the student is enrolled in the Food & Nutrition pathway.
Food Science	20.4181000	Y	10-12	Food, Nutrition & Wellness	Our everyday life is full of encounters with Food Science, which is the study of the relationship between food and the scientific world. This course is not only about the science of food, emerging technologies, basic chemistry concepts and nutrition, but also covers careers in Food Science. From the trivial—like what is the newest color of a candy—to matters of life and death – like hunger—research in food science leads to new discoveries every day. Take this course as part of the Food and Nutrition Pathway and you can earn your fourth science credit. Offered 2018-2019.
Introduction to Law, Public Safety, Corrections & Security	43.4540000	Y	9-12	None	This course provides students with career-focused educational opportunities LPSCS fields. It examines the basic concepts of law related to citizens' rights and responsibilities. Students will receive instruction in critical skill areas including communicating with diverse groups, conflict resolution, ethics, CERT (Citizens Emergency Response Training), basic firefighting, and civil and criminal law. First course in Law Enforcement Services/Forensics Pathway.
Criminal Justice Essentials <i>This course is not offered in the 20-21 school year</i>	43.4510000	Y	10-12	Introduction to Law, Public Safety, Corrections, and Security	An overview of the criminal justice system. Starting with historical perspectives of the origin of the system, the course reviews the overall structure. Students will become immersed in criminal and constitutional law and will review basic law enforcement skills. The course ends with a mock trial to provide participants with a first-hand experience of the criminal justice system. This course is offered in alternate years with Forensics. Second or third course in Law Enforcement Services/Forensics Pathway.

Forensic Science & Criminal Investigation	43.4520000	Y	10-12	Intro to Law, Public Safety, Corrections & Security (ILPSCS)	This course will provide students with an opportunity to explore the basic processes and principles of forensic science as it relates to criminal investigation. Students will learn the importance of the identification, collection, and processing of evidence and of its contribution to the criminal investigation. Students will also learn of the role of the criminal investigator. Included in this course will be the importance of preserving and documenting the crime scene and enabling the investigator to analyze evidence and its relationship to the crime. The student will also study interviews and interrogations and how those statements are used as evidence in court. Students will express understanding of their knowledge by composing clear, concise, and thorough investigative reports, indicating a successful conclusion to an investigation. Most of this course is lab based, students will have practical experiences in the analysis and identification of different types of evidence commonly found at crime scenes.
Examining the Teaching Profession	13.0110000	Y	9-12	Application only. Approved by Ms. Saren, room 3201	Examining the Teaching Profession is a course designed to introduce the beginning student to the field of education. This course will be taught with "hands-on" activities, observations, and field experiences designed to excite the student about teaching. The student will also be exposed to careers in education and components of the educational system. An application must be completed to be approved for course. Please see Ms. Saren (3201) for the application.
Contemporary Issues in Education	13.0120000	Y	11-12	Examining the Teaching Profession	This course engages the candidate in observations, interactions, and analyses of critical and contemporary educational issues. The candidate will investigate issues influencing the social political contexts of educational settings in Georgia and the United States and actively examines the teaching profession from multiple vantage points both within and outside of the school. Against this backdrop, the candidate will reflect on and interpret the meaning of education and schooling in a diverse culture and examine the moral and ethical responsibilities of teaching in a democracy. Mastery of standards through project-based learning, technical skills practice, and leadership development activities of the career and technical student organization Future Educators of America (FEA) will provide students with a competitive edge for either entry into the education global marketplace and/or the post-secondary institution of their choice to continue their education and training.
Teaching as a Profession Practicum	13.0130000	Y	10-12	Examining the Teaching Profession - Application	This is the third course in the Teaching as a Profession Pathway. The internship offers a candidate in the Teaching as a Profession Pathway a field experience under the direct supervision of a certified teacher (mentor teacher). The internship stresses observing, analyzing, and classifying activities of the mentor teacher and comparing personal traits with those of successful teachers. The candidate intern will develop a portfolio of their skills, plan and teach a lesson or lessons, understand and practice confidentiality as it pertains to the teaching profession, meet the needs of special education students, maintain the safety of the students and practice professionalism and ethical behavior.
Work-Based Learning/OFF CAMPUS (2-hour)	21.7115001 21.7125002	Y	11-12	Application only. Apply during registration.	2- hour work experience with associated curriculum. Application must be completed to be approved for course. See Dr. Wagner for the application. The application must be submitted by the DUE DATE ON THE APPLICATIONS. THIS IS A YEAR-LONG COURSE.

Work-Based Learning/OFF CAMPUS (1-hour)	21.7114001 21.7124002	Y	11-12	Application only. Apply during registration	1- hour work experience with associated curriculum. Application must be completed to be approved for course. See Dr. Wagner for the application. The application must be submitted by the last date for schedule requests. THIS IS A YEAR-LONG COURSE.
TA (Teacher Assistant) Work-Based Learning (1-hour)	13.7114001 13.7124002	Y	11-12	Application only. Apply during registration.	1- hour work experience as a Teaching Assistant with associated curriculum. Application must be completed to be approved for course. See Dr. Wagner for the application. The application must be submitted by the last date for schedule requests. THIS IS A YEAR-LONG COURSE.. <i>Previous AP Course required to be a TA</i>
Tech Eagle Work-Based Learning (1-hour)	11.7114001 11.7124002	Y	11-12	Application only. Apply during registration	1- hour work experience as a Teaching Assistant with associated curriculum. Application must be completed to be approved for course. See Dr. Wagner for the application. The application must be submitted by the last date for schedule requests. THIS IS A YEAR-LONG COURSE. <i>Previous AP Course required to be a TA</i>
Medical Internship Work-Based Learning (1-hour)	25.7114001 25.7124002	Y	12	Intro to Healthcare, Essentials of Therapeutic Services and either Surgery OR Sports Medicine & Application	1- hour internship experience in hospital, medical, dental, physical therapy, veterinary offices, etc. reinforces learning in the classroom. Additional training in subjects such as CPR/AED, Teen Work Safety, Blood borne Pathogens, and HIPAA. Fourth course in Sports Medicine and Surgical Technology Pathways and is listed as Work-Based Learning. Application must be completed to be approved for course. See Dr. Wagner for the application. The application must be submitted by the last date for schedule requests. THIS IS A YEAR-LONG COURSE.

Performing Arts					
Course Title	Course #	Term	Grade(s)	Prerequisite(s)	Major Topics
AP Music Theory	53.0230000	Y	10-12	Teacher Recommendation	College Board topics for the AP Music Theory exam include terminology and notational skills, writing skills, visual analysis and aural skills, and advanced levels of understanding.
Fundamentals of Theatre I	52.0210001	S	9-12	None	This course will offer theatre exercises to develop acting and production skills at all levels. It is an exploration of theatre as an artistic form that focuses on the appreciation and value of theatre in society. The students will participate in theatre games that utilize their inner resources of imagination, observation, and concentration. Included will be performance and production demonstrations of creative team building scenes as well as open scenes.
Fundamentals of Theatre II	52.0220001	S	9-12	Fundamentals of Theatre 1	This course will offer theatre exercises to develop acting and production skills at all levels and is a continuation of Fundamentals of Theater 1. It is an in-depth exploration of theatre as an artistic form that focuses on the appreciation and value of theatre in society. The students will participate in theatre games that utilize their inner resources of imagination, observation, and concentration. Included will be performance and production demonstrations of creative team building scenes as well as open scenes.

Acting I	52.0610000	Y	9-12	None	This is a course for a student taking Acting for the 1st time. This is an introductory acting class for students interested in a yearlong acting course. 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. Theatre's forte is in the emotional arena, where participants are able to not only express emotion in a safe environment, but more pertinently, able to learn how to calibrate their emotional responses to various stimuli. The class allows all students the opportunity to perform on a regular basis. After-school rehearsal time may be required. Please contact Larry Smith – smithl4@fultonschools.org for more information.
Acting II	52.0620000	Y	10-12	Acting 1	This is a course for a student taking Acting for the 2nd time. This course delves further into the techniques of acting through the introduction of particular schools of thought associated with the control of voice and movement for effective character development. Using these techniques, the student then explores the style of realism and examines the artists associated with that movement and their methods of instruction. Through this framework the students begin to master specific period styles through research and implementation of the restrictions and demands found in a specific style. The course culminates in a peer reviewed performance which offers the opportunities to audition, build, and critique theatrical productions in the classroom setting. The course is designed for any student wishing to hone their acting skills in an effort to broaden the range possibilities for performance. After-school rehearsal time may be required. Please contact Larry Smith – smithl4@fultonschools.org for more information.
Acting III	52.0630000	Y	11-12	Acting 2	This is a course for a student taking Acting for the 3rd time. The focus of this course is to prepare students for a multitude of audition opportunities. This course is aimed at students that wish to continue theatrical studies beyond high school. Students will learn about the business of acting, personal marketing, and the importance of versatility in their audition repertoire. At the end of the course the student will have knowledge of contemporary self-marketing and monologues to use in auditions for colleges, conservatories, community, academic, or professional theatre. After-school rehearsal time may be required. Please contact Larry Smith – smithl4@fultonschools.org for more information.
Advanced Drama I Advanced Drama II Advanced Drama III Advanced Drama IV	52.0510000 52.0520000 52.0530000 52.0240000	Y	9-12	Audition	Placement in this course is by audition only. This is a course for a student taking Advanced Drama for the 1st time. A study of the artistic, technical, managerial, and financial elements of a dramatic production. 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. After-school rehearsal time may be required. Auditions for Advanced Drama classes will be held in the Spring. Students will be asked to prepare a monologue for the audition. For information please contact Larry Smith – SmithL4@fultonschools.org.

Int. Band I Int. Band II Int. Band III Int. Band IV	53.0371010 53.0372010 53.0373010 53.0374010	Y	9-12	Audition	This course provides opportunities for intermediate-level performers to increase performance skills and precision on a wind or percussion instrument. It includes performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Stresses individual progress and learning and group experiences; strengthens reading skills. Concert Band will help prepare the students for advanced playing demands of upper high school literature and technique. After school rehearsals will be required. Concert Band will perform several required concerts during the year. Students will be auditioned and placed in the most suitable class based on student ability and instrumentation. They will involve all major scales, sight-reading, and the GMEA Jr. High All-State Etudes. Contact Mr. Shumick at shumickCA@fultonschools.org for audition information or with any additional questions.
Adv. Band I Adv. Band II Adv. Band III Adv. Band IV	53.0381010 53.0382010 53.0383010 53.0384010	Y	9-12	Intermediate Band	This course will help prepare the students for advanced playing demands of upper high school literature. The class provides opportunities for advanced-level performers to increase, develop and refine performance skills and precision on a wind or percussion instrument. It covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music at advanced levels of understanding. The class organizes objectives for self-paced progress through all four levels. It stresses individual progress and learning strategies and ensemble experiences. After school rehearsals will be required. Symphonic Band will perform several required concerts during the year. Students will be auditioned and placed in the most suitable class based on student ability and instrumentation. They will involve all major scales, sight-reading, and the GMEA Jr. High All-State Etudes. Contact Mr. Shumick at shumickCA@fultonschools.org for audition information or with any additional questions.
Technical Theatre I Technical Theatre II Technical Theatre III Technical Theatre IV	52.0410000 52.0420000 52.0430000 52.0440000	Y	9-12	Audition	This is a course for a student taking Technical Theater for the 1st time. This course functions as an introduction to the technical elements of theatre, such as scenic, lighting, costume, and sound design and execution in theatrical presentations. Significant after-school tech/construction time is a graded requirement of the class. Contact Sim Jones-jonesg@fultonschools.org , Larry Smith – smithl4@fultonschools.org or David Hopkins hopkinsd1@fultonschools.org for more information.
Beginning Guitar Lab I	53.0841001	S	9-12	None	This course is designed to teach the beginning guitar student the fundamentals of guitar performance. It covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music, and appreciation of music. Students will work on individual and ensemble skills. While class guitars are provided, students are encouraged to have their own instrument for practice at home. No musical experience is required, but students with prior guitar experience may enroll.

Beginning Guitar Lab II	53.0842001	S	9-12	Beginning Guitar Lab I or Instructors Approval	This course builds upon Guitar 1 skills and provides further opportunities for individual and ensemble study in basic guitar techniques. It covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music, and appreciation of music. Class guitars are provided, but students are encouraged to have their own instrument for practice at home. Beginning Guitar 1 or audition/instructor approval is required for this course. For information contact Andrew Cummings: cummingsas@fultonschools.org
Advanced Piano	53.0961001	S	9-12	None	Designed for students who wish to develop basic skills or expand their existing skills, this semester-long class will cover the basics of finger technique, chord theory, and music reading for beginning students while providing more advanced students an opportunity to develop sight reading skills, practice accompanying other musicians, and work on their own music. Students will work both individually and in small groups and will perform their works for each other and in a recital at the end of the year. There will also be time spent in group instruction on music theory notation and basic theory.
Int. Orchestra I Int. Orchestra II Int. Orchestra III Int. Orchestra IV	53.0571000 53.0572000 53.0573000 53.0574000	Y	9-12	Audition	Concert Orchestra is an intermediate-level course for string players. The content of this course includes instruction in performance techniques with emphasis placed on technical and musical skills through the study of rudimentary exercises and mainly grade 3-4 string orchestra repertoire. Individual practice outside of class time is necessary for successful mastery of performance standards. There will be required performances and some rehearsals outside of class time. Students are placed into this course by instructor approval or recommendation of their middle school orchestra director. For information contact Andrew Cummings: cummingsas@fultonschools.org
Adv. Orchestra I Adv. Orchestra II Adv. Orchestra III Adv. Orchestra IV	53.0581000 53.0582000 53.0583000 53.0584000	Y	9-12	Audition	Sinfonia Orchestra is an advanced-level course for string players. This course includes instruction in performance techniques with emphasis placed on technical and musical skills through the study of mainly grade 4-5 string orchestra repertoire. Individual practice outside of class time is necessary for successful mastery of performance standards. There will be required performances and some rehearsals outside of class time. Students are placed into this course by auditions occurring in the spring semester for the following school year. For audition information contact Andrew Cummings: cummingsas@fultonschools.org
Mastery Orchestra I Mastery Orchestra II Mastery Orchestra III Mastery Orchestra IV	53.0591000 53.0592000 53.0593000 53.0594000	Y	9-12	Audition	Chamber Orchestra is a mastery-level course for string players. It is comprised of students of the highest level of skill and experience on their instruments. This course includes instruction in performance techniques with emphasis placed on technical and musical skills through the study of mainly grade 5-6 string orchestra repertoire. Students should be prepared to complete rigorous performance assessments and spend time outside of class for required performances/rehearsals. Individual practice outside of class time is necessary for successful mastery of performance standards. Students are placed into this course by auditions occurring in the spring semester for the following school year. For audition information contact Andrew Cummings: cummingsas@fultonschools.org

Mastery Band I Mastery Band II Mastery Band III Mastery Band IV	53.0391000 53.0392000 53.0393000 53.0394000	Y	9-12	Advanced Band	This course is an intensive study of advanced wind techniques. Some after school rehearsals and several performances will be required. Students will be auditioned and placed in the most suitable class based on student ability and instrumentation. After school rehearsals will be required. Wind Ensemble will perform several required concerts during the year. Students will be auditioned and placed in the most suitable class based on student ability and instrumentation. They will involve all major scales, sight-reading, and the GMEA Jr. High All-State Etudes. Contact Mr. Shumick at shumickCA@fultonschools.org for audition information or with any additional questions.
Int. Chorus I Int Chorus II Int. Chorus III Int. Chorus IV	54.0221000 54.0222000 54.0223000 54.0224000	Y	9-12	Audition	Will perform music of all styles and time periods and will become proficient at sight-singing and music theory to prepare each student for the upper-level choirs. Minimal requirements include the Milton Choral Concert Series including Fall, Winter and Spring Concerts as well as participation in the annual Georgia Music Educators Large Group Performance Evaluation. There are numerous extra-curricular activities including but limited to voice lessons, Spring Cabaret, Fall Musical in Concert and others. Visit www.miltonchorus.com for more information. After school rehearsals may be required and will be scheduled with at least a 2-week notice.
Int. Woman's Chorus I Int. Woman's Chorus II Int. Woman's Chorus III Int. Womans Chorus IV	54.0251000 54.0252000 54.0253000 54.0254000	Y	9-12	Audition	This course is for students taking Intermediate Women as a Freshman. Concert Choir is for grades 9-12 – no audition required. Will perform music of all styles and time periods and will become proficient at sight-singing and music theory to prepare each student for the upper-level choirs. Minimal requirements include the Milton Choral Concert Series including Fall, Winter and Spring Concerts as well as participation in the annual Georgia Music Educators Large Group Performance Evaluation. There are numerous extra-curricular activities including but limited to voice lessons, Spring Cabaret, Fall Musical in Concert and others. Visit www.miltonchorus.com for more information. After school rehearsals may be required and will be scheduled with at least a 2-week notice.
Adv. Woman's Chorus I Adv. Woman's Chorus II Adv. Woman's Chorus III Adv. Woman's Chorus IV	54.0261000 54.0262000 54.0263000 54.0264000	Y	9-12	Audition	Women's Select is for female singers. You must be able to read music at an advanced level. The group performs a variety of music from differing styles and genres. Minimal requirements include the Milton Choral Concert Series including Fall, Winter and Spring Concerts as well as participation in the annual Georgia Music Educators Large Group Performance Evaluation. There are numerous extra-curricular activities including but limited to voice lessons, Spring Cabaret, Fall Musical in Concert, Christmas Caroling gigs, National Anthem at sporting events and other opportunities as they arise. Visit www.miltonchorus.com for more information. After school rehearsals may be required and will be scheduled with at least a 2-week notice. Audition Requirements: Anyone is eligible to audition for the advanced groups. Singers must display the following characteristics listed above. Know that each advanced group has a limited space. Each person auditioning will be required to do two sight-singing examples, vocalize for the director, and sing a short solo a cappella. If you wish to know more about the audition process or schedule an audition please contact Drew Bowers, Director of Choral Activities, by email at bowersa@fultonschools.org or by phone at 470-254-7000 ext. 179.

Master Mixed Chorus I Master Mixed Chorus II Master Mixed Chorus III Master Mixed Chorus IV	54.0235000 54.0236000 54.0237000 54.0238000	Y	9-12	Audition	This course is for students who are able to read music at an advanced level. The group performs a variety of music from differing styles and genres. Minimal requirements include the Milton Choral Concert Series including Fall, Winter and Spring Concerts as well as participation in the annual Georgia Music Educators Large Group Performance Evaluation. There are numerous extra –curricular activities including but limited to voice lessons, Spring Cabaret, Fall Musical in Concert, Christmas Caroling gigs, National Anthem at sporting events and other opportunities as they arise. Visit www.miltonchorus.com for more information. After school rehearsals may be required and will be scheduled with at least a 2-week notice. Audition Requirements: Anyone is eligible to audition for the advanced groups. Singers must display the following characteristics listed above. Know that each advanced group has a limited space. Each person auditioning will be required to do two sight-singing examples, vocalize for the director, and sing a short solo a cappella. If you wish to know more about the audition process or schedule an audition please contact Drew Bowers, Director of Choral Activities, by email at bowersa@fultonschools.org or by phone at 470-254--7000 ext. 179.
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Visual Arts					
Course Title	Course #	Term	Grade(s)	Prerequisite(s)	Major Topics
Intro to Art	50.0211001	S	9-12	None	This course is the pre-requisite for all other studio art courses. Introduction to Art is an entry-level class that establishes a standard and consistent foundation in the discipline of visual art. Students will be introduced to all aspects of visual art including, but not limited to, art as personal communication, drawing, sculpture, ceramics, design, aesthetics, careers, art criticism and art history. Students develop basic skills that increase critical thinking, problem solving, self-evaluation and the ability to complete long-term projects.
Drawing & Painting I	50.0313001	S	9-12	Intro to Art	Drawing & Painting I will instruct students in fundamental drawing skills and prepare 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, perspective and color. Students work with drawing media such as pencil, charcoal, conte and oil pastels. Art history, criticism and aesthetics are incorporated with studio production of drawings and paintings. In addition to learning a life-long skill, drawing courses help increase observation skills, self-discipline, ability to evaluate one's own performance, problem-solving abilities, and ability to complete long-term projects.
Drawing & Painting II	50.0314001	S	9-12	Drawing & Painting I	Drawing & Painting II develops fundamental painting skills and continues to strengthen composition and drawing skills. This course enhances level-one skills in technique and provides further exploration of drawing media. Drawing skills and critical analysis skills are reinforced for responding to master drawings of different historical styles and periods. This course addresses increasingly complex drawing and painting problems and development of personal style. Art history, criticism, and aesthetics are incorporated with studio production of drawings and paintings.

Drawing & Painting III	50.0315001	S	9-12	Drawing & Painting II	Drawing & Painting III develops fundamental painting skills and continues to strengthen composition and drawing skills. This course enhances level-two painting skills and offers opportunities to apply painting techniques in a variety of media. Development of critical analysis skills is emphasized for responding to master paintings of different styles and historical periods. Students address increasingly complex painting problems and continue to development personal style. Art history, criticism, and aesthetics are incorporated with studio production of drawings and paintings.
Drawing & Painting IV	50.0316001	S	9-12	Drawing & Painting III	Drawing & Painting IV develops fundamental painting skills and continues to strengthen composition and drawing skills. This course enhances level-three skills in technique and provides further exploration of drawing and painting media. Drawing skills and critical analysis skills are reinforced for responding to master drawings and paintings of different historical styles and periods. Students examine solutions to complex drawing and painting problems and work on developing personal style. Art history, criticism, and aesthetics are incorporated with studio production of drawings and paintings.
Graphics I	50.0721001	S	9-12	Intro to Art	Graphics I introduces graphic design as seen in posters, advertisements, logos, illustrations, signs, and package or product designs. Covers selected graphic design elements, vocabulary, and the media, tools, equipment, techniques, processes, and styles used for graphics. Investigates the historical development of graphic design and its function in contemporary society. Stresses using the computer as a major design tool. Explores career opportunities.
Graphics II	50.0722001	S	9-12	Intro to Art, Graphics I	Graphics II enhances level-one skills in graphic design. Introduces advanced design problems and how to apply creative ideas using storyboards, layouts, and models. Stresses use of vocabulary, tools, media, equipment, and techniques in planning and producing graphic art products.
Digital Design I	50.0725001	S	9-12	Intro to Art	Digital Design I teaches illustration as it applies to sequential art and animation. Topics will include the narrative arc, rules of animation, character design, and anatomy for motion. Students will use a variety of hardware and software tools to create graphic design, digital media, and animation projects.
Digital Design II	50.0727001	S	9-12	Digital Design I	Digital Design II enhances level-one skills. Students use a variety of hardware and software tools to create digital media projects. Students will create portfolios that showcase a variety of digital media skills. Projects can include elements of illustration, electronic publishing, application design, two-dimensional animation, video production, special effects, three-dimensional animation, music production, photography, graphic design, interface design, and web design.
Ceramics I	50.0411001	S	9-12	Intro to Art	Ceramics I introduces the characteristics of clay and design in clay using various techniques of construction and decoration. Emphasizes hand building and introduces other forming techniques, surface decoration, and glaze applications. Covers styles of ceramic works from Western and non-Western cultures. In addition to learning a lifelong skill, ceramic courses help improve observation skills, self-discipline, organization, ability to evaluate one's own performance, problem-solving abilities and ability to complete long-term projects.
Ceramics II	50.0412001	S	9-12	Ceramics I	Ceramics II enhances level-one skills and provides opportunities to apply design techniques in clay through hand building and/or throwing on the potter's wheel. Introduces formulation of basic glazes and kiln firing; stresses evaluation of clay forms through art criticism.

Ceramics III	50.0413001	S	10-12	Ceramics II	Ceramics III enhances level-two skills and provides opportunities to apply design techniques in clay through hand building and/or wheel throwing techniques while developing personal artistic voice. Presents ceramic/pottery forms as art and craft in historical context. Explores ideas and questions about purposes and functions of ceramic forms, past and present.
Ceramics IV	50.0414001	S	10-12	Ceramics III	Ceramics IV enhances level-three skills and provides opportunities to apply design techniques in clay through hand building and/or wheel throwing techniques while continuing to develop personal artistic voice. Emphasizes more complex form and surface treatments using tools, glazes, resists, and multiple clay bodies.
Sculpture I	50.0611001	S	9-12	Intro to Art	Sculpture I introduces the design and production of relief sculpture and sculpture-in-the-round. Emphasizes the historical origins and functions of sculpture in Western and non-Western cultures. Includes additive, subtractive, and modeling methods. Explores traditional and nontraditional materials for sculpted works and the work of both historical and contemporary sculptural artists. Sculpture courses help improve problem solving skills, self-discipline, organization, ability to evaluate one's own performance and ability to complete long-term projects.
Sculpture II	50.0612001	S	9-12	Sculpture I	Sculpture II enhances level-one skills and explores the design and production of relief sculpture and sculpture-in-the-round. Emphasizes the historical origins and functions of sculpture in Western and non-Western cultures. Includes additive, subtractive, and modeling, methods. Explores traditional and nontraditional materials for sculpted works and the work of a variety sculptural artists.
Sculpture III	50.0613001	S	10-12	Sculpture II	Sculpture III enhances level-two skills and introduces advanced exploration and mastery of selected, complex techniques, designs, materials, tools, and equipment. Introduces casting, molding, gouging, brazing, soldering, piercing, and mixed media. Stresses personal expression of creative ideas and depth of exploration in selected techniques. Continues critical study of master sculptures and sculptors.
Sculpture IV	50.0614001	S	10-12	Sculpture III	Sculpture IV enhances level-three skills and provides advanced exploration and mastery of selected, complex techniques, designs, materials, tools, and equipment. Further explores casting, molding, gouging, brazing, soldering, piercing, and mixed media. Stresses personal expression of creative ideas and depth of exploration in selected techniques. Continues critical study of master sculptures and sculptors.
Applied Design I	50.0431010	S	9-12	Intro to Art	Emphasizes design elements and principles in the production of applied design art products and/or designs such as architecture, advertisements, graphic designs, environmental designs, and product designs. Stresses proper use of equipment and vocabulary and technical terms. Investigates the computer and its influence on and role in creating contemporary designs. Includes a cultural and historical study of master design works of different periods and styles.

Applied Design II	50.432010	S	10-12	Applied Design I	Enhances level-one skills and provides opportunities to apply design elements and principles in the production of applied design art products and/or designs such as architecture, advertisements, graphic designs, environmental designs, and product designs. Uses board- and computer-generated designs for art products. Covers how to create designs and plan design presentations.
AP Art History	50.0921000	Y	11-12	Teacher Recommendation	Conforms to College Board topics for the Advanced Placement History of Art Examination. Covers prehistory to Egyptian, Greek and Roman, Early Christian, Byzantine, Early Medieval, Romanesque, Gothic, Renaissance and Mannerist, 17th and 18th century, 19th century, 20th century and non-Western art.
AP Drawing Portfolio	50.0811000	Y	11-12	Intro to Art, Drawing & Painting II, Teacher Recommendation	This is a year-long course for juniors and seniors. The course allows students to pursue college credit while still in high school by submitting a portfolio for evaluation by the College Board. Plans to pursue art beyond high school are not required. However, students should have the desire to excel in visual art and to master long-term goals. Students in these courses have opportunities to build portfolios for college admission and participate regionally and nationally in exhibitions and scholarship competitions. Contact Drew Brown, browndrew@fultonschools.org for more information.
AP 2D Portfolio	50.0813000	Y	11-12	Intro to Art, Drawing and Painting II, Graphics I and/or Digital Design, Teacher Recommendation	This is a year-long course for juniors and seniors. The course allows students to pursue college credit while still in high school by submitting a portfolio for evaluation by the College Board. Plans to pursue art beyond high school are not required. However, students should have the desire to excel in visual art and to master long-term goals. Students in these courses have opportunities to build portfolios for college admission and participate regionally and nationally in exhibitions and scholarship competitions. Contact Drew Brown, browndrew@fultonschools.org for more information.
AP 3D Portfolio	50.0814000	Y	11-12	Intro to Art, Sculpture II and/or Ceramics II, Teacher Recommendation	This is a year-long course for juniors and seniors. The courses allow students to pursue college credit while still in high school by submitting a portfolio for evaluation by the College Board. Plans to pursue beyond high school is not required. However, students should have the desire to excel in visual art and to master long-term goals. Students in these courses have opportunities to build portfolios for college admission and participate regionally and nationally in exhibitions and scholarship competitions. Contact Lynn Hatcher Hatcherly@fultonschools.org for more information.

Health & Physical Education

Course Title	Course #	Term	Grade(s)	Prerequisite(s)	Course Description
General Health <i>(Required course for graduation)</i>	17.0110001	S	9-12	None	Wellness concepts, human sexuality, State ADAP requirements, CPR training, first aid procedures, safety practices, and responsibility for health decisions are all discussed. Course is required to graduate high school.
Personal Fitness <i>(Required course for graduation)</i>	36.0510001	S	9-12	None	This course helps students develop a physical fitness program. Students are introduced to the concepts of stress management, weight training and conditioning, and proper nutrition. Progress toward individual fitness goals is measured throughout the semester. This course is required to graduate high school, unless an approved Personal Fitness waiver is on file.

Intro to Rec. Games	36.0270001	S	9-12	None	Weight training and conditioning introduces correct lifting form, emphasizes safety practices, and presents a variety of exercises. Individual weight training programs are designed and followed throughout the course.
General PE I	36.0110001	S	9-12	None	This course contains nine activities. The activities are basketball, flag football, Frisbee games, softball, soccer, speedball, tennis, hockey, and volleyball. Each activity will be presented in a two-week unit.
General PE II	36.0120001	S	9-12	General PE I	Basic skills, rules and strategies of basketball, flag football, team handball, badminton, tennis/pickle ball and soccer are covered in this class.
Outdoor Education	36.0250001	S	12	None	An introduction to various aspects of outdoor education including backpacking, camping, conservation, angling, archery, initiatives/trust/team building, adventure activities, orienteering and safety are what students may expect from this course. There is a minimal financial obligation for this class.
Weight Training	36.0540001	S	9-12	None	Weight training and conditioning introduces correct lifting form, emphasizes safety practices, and presents a variety of exercises. Individual weight training programs are designed and followed throughout the course.
Team Sports (Basketball)	36.0210001	S	9-12	None	This class is for those students who have a passion for basketball. Team games, individual practice and 3 on 3 games will be implemented. A component of basketball will be a part of this class every day. This class is for basketball enthusiasts.

Talented & Gifted					
Course Title	Course #	Term	Grade(s)	Prerequisite(s)	Major Topics
Directed Study Directed Study	70.2320001 70.2320002	S1 S2	10-12	Application Required - Approval by Mrs. Denney	The course is designed for TAG students who have already demonstrated the skills needed for independent learning. It will provide the opportunity for independent investigation in a subject or interest, development of research techniques, and the practice of higher-level thinking skills. Student and teacher will write a curriculum contract that lists goals, objectives, and requirements.
First Gifted Career Int. Gifted Career Int.	70.2210001 70.2210002	S1 S2	11-12 11-12	Completion of "Hire Me" seminar - Approval by TAG teacher.	The Gifted Internship Program is designed to provide TAG students the opportunity to explore potential career interest by working with professionals in the community. Students will leave the school for one or two periods a day. The Internship will count as either one or two of their regular courses during the semester. Academic credit and letter grade is earned.
Social Impact Project I Social Impact Project II	70.0410001 70.0410002	S1 S2	9-12 9-12	None	Are you ready to make a positive impact on your school and/or community? At Milton, we believe that high school students have the power to change the world. Our Social Impact Project class provides students with the support, time and resources they need to do just that. In this semester long class (students can take the class both semesters if they would like to work on a year-long project) students will work on finding their passion, and then participate in workshops designed to teach the skills necessary to launch social impact projects, awareness campaigns, and nonprofit organizations. These workshops, taught by industry and nonprofit experts, teach the students skills such as budgeting, event planning, networking, grant-writing, and more. This is a hybrid class combining in class curriculum and assignments with time to leave campus during class to work in the community developing ideas and impact projects.

Student Council

Student council courses will be replacing the Student Council club in order to focus more time to impacting school culture and climate.

Course Title	Course #	Term	Grade(s)	Prerequisite(s)	Course Description
Student Council Leadership - Underclassmen	45.0590000	Y	9-10	N/A	The Student Council Leadership course is a year-long course designed for underclassman. This course is required for any student wishing to be a class officer or student council member. It is designed to focus on social-emotional learning, character development, and positive class/campus relationship and community building. Students will practice practical ways to engage in kindness, forgiveness, honesty, respect and more through implementing school wide programs, organizing community service events and planning school spirit events. Students taking this course should be interested in valuable leadership training and working as a team to make a positive impact on this school's culture and climate. Outside commitment include helping with school events such as homecoming week events, dances, service projects, etc.
Student Council Leadership - Upperclassmen	45.0590000	Y	11-12	N/A	The Student Council Leadership course is a year-long course designed for upperclassmen. This course is required for any student wishing to be a class officer or student council member. It is designed to focus on social-emotional learning, character development, and positive class/campus relationship and community building. Students will practice practical ways to engage in kindness, forgiveness, honesty, respect and more through implementing school wide programs, organizing community service events and planning school spirit events. Students taking this course should be interested in honing leadership skills and working as a team to make a positive impact on this school's culture and climate. In this course students will be using prior student council experience to develop and execute their own initiative for the school. Outside commitment include helping with school events such as homecoming week events, dances, service projects, etc.

Milton High School

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