

COURSE DESCRIPTIONS GUIDE



All courses listed in this guide are offered based on demand from students and may not be available every semester/year. Additionally, course offerings may be ½ unit of credit or whole unit of credit depending on program requirements needed per student.

BASIX KNOWLEDGE ACADEMY

The Empowerment Center • 2941 Columbia Drive • Decatur, GA 30034
404-289-8105 • 404-289-8106

LANGUAGE ARTS OFFERINGS

9th Literature/Composition (23.0610)

This course is designed for ninth grade students, surveys world literature in the areas of poetry and prose. It is focused on the study, analysis, and comparison of literature and the composition (writing) process. In this class, each student will become more proficient in the use and comprehension of the English language. The student will read, write, speak, listen, act, and create within the positive atmosphere of a classroom “community.”

Units: ½ unit per semester or 1 Unit per semester

10th World Literature/Composition (23.0630)

This literature-based, integrated course is designed for heterogeneously grouped students to develop organization and communication skills used in composition. Students organize, develop, and arrange ideas and information for a variety of purposes and audiences. Composition skills are further developed through guided writing (formal essays, and documented report papers) and technology. Also the teacher will integrate grammar, usage, and conventions based on students’ compositions. The course includes comprehension and analysis of world literature including poetry, fables, mythology, short stories, and drama.

Units: ½ unit per semester or 1 Unit per semester

American Literature/Composition (23.0510)

This is a course in which literature is surveyed, designed especially for eleventh grade students. The course covers the study, analysis and comparison of American Literature. In addition, this class will sharpen students’ reading and writing skills. We will review and recall the necessary skills needed to pass the Georgia High School Writing Test, Graduation Test, and the SAT. Students will be provided with the opportunity to gain experience in reading, writing, speaking, and critical thinking while studying a range of literary works.

Units: ½ unit per semester or 1 Unit per semester

British Literature (23.0520)

This course is designed for twelfth grade students, will survey British Literature in the areas of poetry and prose. It is focused on the study, analysis, and comparison of British literature. In this class, each student will become more proficient in the use and comprehension of the English language. The student will read, write, speak, listen, act, and create within the positive atmosphere of a classroom “community.”

Units: ½ unit per semester or 1 Unit per semester 3



MATHEMATICS OFFERINGS

GSE Coordinate Algebra (27.0971)

The fundamental purpose of Coordinate Algebra is to formalize and extend the mathematics that students learned in the middle grades. The critical areas - organized into units - deepen and extend understanding of linear relationships, in part by contrasting them with exponential phenomena, and in part by applying linear models to data that exhibit a linear trend. Coordinate Algebra uses algebra to deepen and extend understanding of geometric knowledge from prior grades. The final unit in the course ties together the algebraic and geometric ideas studied. The Standards for Mathematical Practice apply throughout each unit and, together with the content standards, prescribe that students experience mathematics as a coherent, useful and logical subject that makes use of students' ability to make sense of problem situations.

Units: ½ unit per semester or 1 Unit per semester

GSE Analytic Geometry (27.09704)

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

Units: ½ unit per semester or 1 Unit per semester

GSE Algebra II / Advanced Algebra (27.0623)

This course requires students to: analyze polynomial functions of higher degree; explore logarithmic functions as inverses of exponential functions; solve a variety of equations and inequalities numerically, algebraically, and graphically; use matrices and linear programming to represent and solve problems; use matrices to represent and solve problems involving vertex-edge graphs; investigate the relationships between lines and circles; recognize, analyze, and graph the equations of conic sections; investigate planes and spheres; solve problems by interpreting a normal distribution as a probability distribution; and design and conduct experimental and observational studies.

Units: 1 Unit per semester 4



Mathematics I: Algebra/Geometry/Statistics (27.0810)

This is the first in the sequence of secondary mathematics courses designed to ensure that students are college and work ready. This course requires students to:

- Explore the characteristics of basic functions using tables, graphs and simple algebraic techniques;
- Operate with radical, polynomial, and rational expressions;
- Solve a variety of equations, including quadratic equations with a leading coefficient of one, radical equations, and rational equations;
- Investigate properties of geometric figures in the coordinate plane;
- Use the language of mathematical argument and justification;
- Discover, prove, and apply properties of polygons;
- Utilize counting techniques and determine probability;
- Use summary statistics to compare samples to populations; and
- Explore the variability of data.

Units: ½ unit per semester or 1 Unit per semester

Mathematics II: Geometry / Algebra II/ Statistics (27.0820)

This is the second in a sequence of mathematics courses designed to ensure that students are college and career ready. It includes complex numbers; quadratic, piecewise, and exponential functions; right triangles, and right triangular trigonometry; properties of circles; and statistical inference.

Units: ½ unit per semester or 1 Unit per semester

Mathematics III: Advanced Algebra / Geometry / Statistics (27.0830)

This is the third in the sequence of secondary mathematics courses designed to ensure that students are college and work ready. It requires students to: analyze polynomial functions of higher degree; explore logarithmic functions as inverses of exponential functions; solve a variety of equations and inequalities numerically, algebraically, and graphically; use matrices and linear programming to represent and solve problems; use matrices to represent and solve problems involving vertex-edge graphs; investigate the relationships between lines and circles; recognize, analyze, and graph the equations of conic sections; investigate planes and spheres; solve problems by interpreting a normal distribution as a probability distribution; and design and conduct experimental and observational studies.

Units: ½ unit per semester or 1 Unit per semester

Mathematics IV: Pre-Calculus / Trigonometry / Statistics (27.0830)

This fourth year mathematics course is designed to prepare students for calculus and other college level mathematics courses. It includes rational, trigonometric, and inverse trigonometric functions; basic trigonometric identities and the laws of sines and cosines; sequences and series; vectors; the central limit theorem and confidence intervals.

Units: ½ unit per semester or 1 Unit per semester 5

Advanced Decision Making/Business Mathematics & Money Management (27.0850)

The course will give students further experiences with statistical information and summaries, methods of designing and conducting statistical studies, an opportunity to analyze various voting processes, modeling of data, basic financial decisions, and use network models for making informed decisions. It will challenge students to examine math applications relating to monetary experiences encountered in their personal life and business interactions.

Units: 1 Unit per semester 6



SOCIAL STUDIES OFFERINGS

Psychology (45.0160)

Investigates the principles of psychology, developmental psychology, heredity and environmental aspects of psychology, learning theory, personality, intelligence, social disorders and research methods used in the study of psychology. Integrates and reinforces social studies skills.

Units: ½ unit per semester or 1 Unit per semester

Economics (45.0610) Economics offers students the opportunity to study the issues of scarcity and choice relating to the utilization of limited resources. Students learn how to apply the tools of economics personal, community, national and international issues. Economic preparedness enables students to make choices relying on past historical and geographical knowledge to active successfully engage in our complex society.

Units: ½ unit per semester or 1 Unit per semester

American Government / Civics (45.0570)

American Government is designed to increase students' knowledge of how the United States government was established, how it is organized, and includes an analysis of its progression throughout our history. After completion of this course, students will have an understanding of the importance of our system of government and the integral role it plays in their lives.

Units: ½ unit per semester

U.S. History (45.0810)

This course will focus on an analysis of the origins, foundations, and evidence of the American democratic ideal. Special emphasis will be placed on the colonial era and the establishment of our constitutional government. The theme for the course will be "Change." Change has brought our country into the modern era and change will bring it forward through progress, promotion, and the endless pursuit of the American ideals of life, liberty, and happiness. Change can be shown through the exploration of wars such as the Revolutionary War, the French and Indian War, the War of 1812, the Civil War, the Spanish-American War, World War I and II, Korea, Vietnam, the Cold War, and the present-day War on Terror. We will explore the unique ability of the United States to adapt and assimilate new cultures, ideals, and the changing world into our way of life.

Units: ½ unit per semester or 1 Unit per semester

World History (45.0830)

World History is a course that enables students to explore the human race in each stage of development from the Ancient World up to the present day. Through the study of history, students will grasp a larger worldview and develop a broader understanding of the world and its people groups. Students will be able to connect with the developments of previous societies and relate these developments to their own life.

Units: ½ unit per semester or 1 Unit per semester 8



SCIENCE OFFERINGS

Environmental Science (26.0611)

Environmental Science will focus first on our earth's natural resources of atmosphere and land. Students will also explore the need for diversity in the environment. Students will examine the need and impact of human use of energy and resources. Students will be expected to conduct laboratory studies and research. The focus will be not only on a global look at the environment, but also a look at the local community of the students.

Units: ½ unit per semester or 1 Unit per semester

Biology (26.0120)

The Biology curriculum is designed to continue student investigations of the life sciences that began in grades K-8 and provide students the necessary skills to be proficient in biology. This curriculum includes more abstract concepts such as the interdependence of organisms, the relationship of matter, energy, and organization in living systems, the behavior of organisms, and biological evolution. Students investigate biological concepts through experience in laboratories and fieldwork using the processes of inquiry. *Units:* ½ unit per semester or 1 Unit per semester

Chemistry (40.0510)

Students will learn to define matter and classify it according to chemical and physical properties. The historical development and modern theory of the atom will be studied. Students will classify atoms according to atomic structure and use that understanding to predict bonding using the periodic table. The students will write formulas for compounds using their understanding of the periodic table and accepted rules of practice. Students will describe chemical reactions by using balanced equations, and derive mathematical relationships using the mole concept.

Units: ½ unit per semester or 1 Unit per semester

Physical Science (40.011)

Students will learn to define matter and classify it according to chemical and physical properties. The historical development and modern theory of the atom will be studied. Students will classify atoms according to atomic structure and use that understanding to predict bonding using the periodic table. The students will write formulas for compounds using their understanding of the periodic table and accepted rules of practice. Students will describe chemical reactions by using balanced equations. In the second part of the course students will examine the Newton's three laws of motion; the six types of simple machines; the effect of forces such as electricity and magnetism on matter; as well as the concepts of light and sound waves.

Units: ½ unit per semester or 1 Unit per semester

Human Anatomy & Physiology (26.0730)

Students will explore the anatomy and physiology of the human body. The study will begin with the basic structure of cells, and then progress to tissue and then the human systems. The students will learn clinical terminology, diseases and tests conducted for diagnostic purposes. Lab activities will be 9 performed in specific areas, with the dissection of a pig throughout the semester.

Units: ½ unit per semester or 1 Unit per semester 10



ELECTIVE OFFERINGS

Speech (23.0810)

Focuses on critical thinking, organizing, and communicating appropriately to different audiences; presents methods to develop and arrange ideas and information in written form for effective oral delivery. Emphasizes writing and public speaking skills.

Units: 1 unit per semester

Professional Communications (55.0240)

Emphasizes basic skills, thinking skills and personal qualities such as self-esteem, responsibility and self-management; covers communications, mathematics, creative decision making and problem solving.

Units: 1 unit per semester

Creative Writing (23.0310)

Provides opportunities to improve writing proficiency with emphasis on fluency, control, and style; emphasizes writing as a process with instruction in grammar, mechanics usage, and imaginative expression. Offers opportunities for independent writing assignments to examine narrative, descriptive, persuasive, and expository modes of discourse.

Units: 1 unit per semester

Spanish 1 (60.071)

An introduction to the language and culture of Spain and other Spanish-speaking countries. The course will enable students to attain a beginner's level of proficiency in listening, speaking, reading, and writing, with an emphasis on oral proficiency.

Units: ½ unit per semester or 1 Unit per semester

Spanish 2 (60.072)

This course is designed to further develop listening, speaking, reading and writing with an emphasis on oral proficiency. The student will acquire a basic command of key vocabulary and grammatical structures necessary for limited personal communication as well as an appreciation of diversity in the Spanish-speaking world.

Units: ½ unit per semester or 1 Unit per semester 11

HEALTH EDUCATION OFFERINGS

General Health (17.0110)

Explores the mental, physical, and social aspects of life and how each contributes to total health and well-being; emphasizes safety, nutrition, mental health, substance abuse prevention, disease prevention, environmental health, family life education, health careers, consumer health, and community health.

Units: ½ unit per semester or 1 Unit per semester

