

Burke County High School

Revised: January 2016

Advisement Facts

9th Grade



2016-2017

The Burke County Board of Education and Burke County Public Schools do not discriminate in matters affecting employment, admission, treatment or access to its programs and activities on the basis of race, color, religion, national origin, sex/gender, disability or age.

**GRADUATION REQUIREMENTS FOR STUDENTS
WHO ENROLLED IN THE NINTH GRADE IN SCHOOL YEAR 2012-13**

	Curriculum Area	# of Required Units
English	9th Grade Literature/Composition 10th Grade Literature/Composition 11th Grade American Literature/Composition or AP American Literature English Language/Composition 12th Grade English Literature/Composition or AP English Language/Composition	4
Math	Foundations of Algebra* GSE Algebra I GSE Geometry GSE Algebra II AP Statistics, GSE Pre-Calculus, GSE Calculus, or Mathematics of Finance	4
Science	Environmental Science AP Biology, Biology I, or Human Anatomy and Physiology Physical Science or Physics Chemistry, AP Chemistry Additional academic or Career Tech Science (*)	4
Social Studies	World History Economics American Government (1 Semester) U.S. History or AP US History	3
	Personal Fitness/Health	1
	CTAE and/or Fine Arts and/or Foreign Language	3
	General Electives	4
	TOTAL	23

**Criteria are established for those who are enrolled in Foundations of Algebra.*

**OTHER GRADUATION REQUIREMENTS
GEORGIA HIGH SCHOOL GRADUATION TEST**

Students are administered the Georgia High School Writing Graduation Test (GHSWGT) in the fall of their junior year and must PASS the test in order to GRADUATE. If a student does not pass on the first administration, he/she will be administered the test during subsequent administrations. Any student who has not passed the GHSWGT will not be eligible to participate in the BCHS graduation ceremony.

Who is required to take the EOCT?

Any student enrolled in and/or receiving credit for an EOCT course, regardless of grade level, will be required to take the EOCT upon completion of that course. Middle school students completing an EOCT course must take the EOCT. Students enrolling from non-accredited programs are required to take and pass the EOCT prior to receiving credit for the course. By the rules of the GaDOE, the EOCT counts as 20% of the final grade.

EOCT Courses

Math	Social Studies	Science	Language Arts
GSE Algebra I	United States History	Biology	Ninth Grade Literature and Composition
GSE Geometry	Economics	Physical Science	American Literature and Composition

PATHWAYS to Colleges & Careers:

Advanced Academics and/or CTAE and/or World Languages and/or Fine Arts

A total of three units of credit are required from the following areas: Advanced Academics and/or CTAE and/or World Languages and/or Fine Arts. Students are encouraged to select courses in a focused area of interest. **All students are encouraged to earn two units of credit in the same modern language.** 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 language. Georgia Department of Technical and Adult Education (DTAE) institutions (Technical College System of Georgia) do not require a modern language for admission. Students may earn three units of credit in a coherent sequence of CTAE courses through a self-selected pathway leading to college readiness and a career readiness certificate endorsed by related industries. All students are strongly encouraged to complete a career pathway while in high school.

END OF PATHWAY ASSESSMENTS (EOPA)

All students completing a CTAE Pathway are required by the Georgia Department of Education to take an End of Pathway Assessment (EOPA). Depending on the assessment and certifying agency, students may earn a certificate of completion and/or industry recognized credential. Information pertaining to assessment has been provided to the teachers of each Pathway and is available for students.

PROMOTION POLICY

Students are promoted from one grade level to another according to the total number of units earned by the beginning of each school year. Promotion to the next grade is based on the following:

2016-17	
Sophomore	5 Units (3 core)
Junior	11 Units (6 core)
Senior	17 Units (10 core)
Graduation	23 Units

BURKE COUNTY MIDDLE SCHOOL CREDIT

Band	1 Unit	Spanish I	1 Unit
Chorus	1 Unit	French I	1 Unit
Personal Fitness	½ Unit	World History	1 Unit
GSE Algebra I	1 Unit	9 th Lit/Comp	1 Unit

Dual Enrollment

Dual enrollment credit provides opportunities for Georgia high school students to take college level courses and earn concurrent credit toward a high school diploma and a college degree. Participation in dual enrollment credit eases the transition from high school to college, provides students an early start on their college careers, and offers meaningful and challenging academic experiences to qualified students, including those who might not otherwise have access to early college opportunities. Dual enrollment credit can help increase the number of high school graduates who are both college and career ready

ENGLISH LANGUAGE ARTS COURSE SEQUENCES

9th	10th	11th	12th
9 th Lit/Comp	10 th Lit/Comp	11 th Amer Lit/Comp	12 th British Lit/Comp
9 th Lit/Comp Honors	10 th Lit/Comp Honors	11 th Amer Lit/Comp Honors	12 th British Lit/Comp Honors
9 th Lit/Comp Honors	10 th Lit/Comp Honors	11 th Amer Lit/Comp Honors Or 11 th AP Lang	12 th British Lit/Comp Honors Or 12 th AP Lit/Comp

ENGLISH LANGUAGE ARTS COURSE OFFERINGS

Course Title	Course Description
9 th Grade Literature & Composition (1 Unit)	This EOCT course focuses on a study of literary genres; the students develop initial understanding of both the structure and the meaning of a literary work. The students explore the effect of the literary form in regards to interpretation. The students will read across the curriculum to develop academic and personal interests in different subjects. While the focus is technical writing in ninth grade literature, the student will also demonstrate competency in a variety of writing genres: narrative, expository, persuasive, and technical. The students will engage in research, timed writings, and the writing process. Instruction in language conventions will occur within the context of reading, writing, and speaking, rather than in isolation. The students demonstrate an understanding of listening, speaking, and viewing skills for a variety of purposes. THIS COURSE REFLECTS THE COMMON CORE GEORGIA PERFORMANCE STANDARDS (CCGPS).
9 th Grade Literature & Composition Honors (1 Unit)	This EOCT course is designed to prepare students to take Advanced Placement Literature. It is created for highly motivated and responsible students who have been identified by standardized test scores as reading and comprehending above grade level. The student should also be able to work independently and be capable of completing outside reading and writing assignments as an expectation of this course. Emphasis will be on studying literature by genre, focusing on analysis and comparison. Required readings will be listed on syllabus. This course falls under present EOCT guidelines. <i>Prerequisite: A student score in 7th Grade above 850 on the CRCT 85 or higher in current ELA class is required. After 9th Grade Accelerated/Honors Literature, students will take 10th Grade Accelerated/Honors Literature and Composition, then take 11th Grade Accelerated/Honors Literature and Composition or AP English Language & Composition American Literature, and then AP English Language and Composition.</i>

FRENCH SEQUENCES

French I
French II
French III
French IV
AP French (GAVS)

SPANISH SEQUENCES

Spanish I
Spanish II
Spanish III
Spanish IV
AP Spanish (GAVS)

FOREIGN LANGUAGE COURSE OFFERINGS

Course Title	Course Description
French I (1 Unit)	This course introduces the French language and emphasizes the skills of listening, speaking, reading, and writing in an integrated way. It includes how to greet and take leave of someone, to ask and respond to basic questions, to speak and read within a range of carefully selected topics and to develop an understanding of French-speaking cultures. <i>Prerequisite- Class Average (at time of registration) of 80 or better in the current year's ELA Class for all students interested in taking a Foreign Language.</i>
French II (1 Unit)	This course enhances Level One skills in French and provides opportunities to develop listening, speaking, reading, and writing skills in an integrated way. It provides continued practice in how to greet and take leave of someone, to ask and respond to basic questions, and to speak and read within a range of carefully selected topics. This course also provides opportunities to increase understanding of French-speaking cultures. <i>Prerequisite: Successful completion of French I</i>
Spanish I (1 Unit)	This course introduces the Spanish language and emphasizes the skills of listening, speaking, reading, and writing in an integrated way. It includes how to greet and take leave of someone, to ask and respond to basic questions, to speak and read within a range of carefully selected topics and to develop an understanding of Spanish-speaking cultures. <i>Prerequisite- Class Average (at time of registration) of 80 or better in the current year's ELA Class for all students interested in</i>

	<i>taking a Foreign Language.</i>
Spanish II (1 Unit)	This course enhances Level One skills in Spanish and provides opportunities to develop listening, speaking, reading, and writing skills in an integrated way. It provides continued practice in how to greet and take leave of someone, to ask and respond to basic questions, and to speak and read within a range of carefully selected topics. This course also provides opportunities to increase understanding of Spanish-speaking cultures. <i>Prerequisite: Successful completion of Spanish I</i>

MATHEMATICS COURSE SEQUENCES

9th	10th	11th	12th
Foundations of Algebra*	GSE ALGEBRA I	GSE GEOMETRY	GSE ALGEBRA II
GSE ALGEBRA I	GSE GEOMETRY	GSE ALGEBRA II	GSE PRE-CALCULUS MATHEMATICS OF FINANCE
HONORS GSE GEOMETRY	HONORS GSE ALGEBRA II	HONORS GSE PRE-CALCULUS DUAL ENROLLMENT COURSES	AP STATISTICS GSE CALCULUS DUAL ENROLLMENT COURSES

**Criteria are established for those who are enrolled in Foundations of Algebra.*

MATHEMATICS COURSE OFFERINGS

Course Title	Course Description
Foundations of Algebra (1 Unit)	Foundations of Algebra is a first year high school mathematics course option for students who have completed mathematics in grades 6 – 8 yet will need substantial support to bolster success in high school mathematics. The course is aimed at students who have reported low standardized test performance in prior grades and/or have demonstrated significant difficulties in previous mathematics classes.
GSE Algebra I (1 Unit)	Algebra I is the first course in a sequence of three required high school courses designed to ensure career and college readiness. The course represents a discrete study of algebra with correlated statistics applications.
Honors GSE Geometry (1 Unit)	Geometry is the second course in a sequence of three required high school courses designed to ensure career and college readiness. The course represents a discrete study of geometry with correlated statistics applications

SCIENCE COURSE SEQUENCES

9th	10th	11th	12th
HONORS BIOLOGY -	HONORS PHYSICAL SCIENCE OR CHEMISTRY	PHYSICS OR CHEMISTRY	AP BIOLOGY AP CHEMISTRY HUMAN ANATOMY AND PHYSIOLOGY -
ENVIRON SCIENCE -	BIOLOGY I	PHYSICAL SCIENCE	FORENSIC SCIENCE OR 4 TH SCIENCE OPTION

SCIENCE COURSE OFFERINGS

Course Title	Course Description
Environmental Science (1 Unit)	<p>The Environmental Science curriculum is designed to extend student investigations that began in grades K-8. This curriculum is extensively performance, lab and field based. It integrates the study of many components of our environment, including the human impact on our planet. Instruction should focus on student data collection and analysis. Some concepts are global; in those cases, interpretation of global data sets from scientific sources is strongly recommended. It would be appropriate to utilize resources on the Internet for global data sets and interactive models. Chemistry, physics, mathematical, and technological concepts should be integrated throughout the course. Whenever possible, careers related to environmental science should be emphasized.</p>
Biology I Honors (1 Unit)	<p>An EOCT Course, the Honors 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 will investigate biological concepts through experience in laboratories and field work using the processes of inquiry.</p> <p><i>Prerequisite: A student score in 7th Grade above 850 on the CRCT 85 or higher in current Science class is required. Succeeding Biology I Honors, students will take Physical Science Honors or Chemistry I, then Physics or AP Chemistry, and then AP Biology or AP Chemistry.</i></p>

SOCIAL STUDIES SEQUENCES

9th	10th	11th	12th
WORLD HISTORY	ECONOMICS and AMERICAN GOVERNMENT	US HISTORY	Dual Enrollment History Courses
HONORS WORLD HISTORY OR HONORS ECONOMICS OR HONORS AMERICAN GOVERNMENT	HONORS US HISTORY OR AP US HISTORY OR AP U.S. GOVERNMENT	*AP EUROPEAN HISTORY - (if offered) or Dual Enrollment History Courses	Dual Enrollment History Courses

SOCIAL STUDIES COURSE OFFERINGS

Course Title	Course Description
World History (1 Unit)	This is a survey course beginning with the earliest civilizations and highlighting important developments throughout the world until the early 21st century. The course includes topics related to Early Civilizations and Classical Empires; Growth, Expansion, and the Emergence of the Modern World; Global Interaction and Conflict; and the Contemporary World.
World History Honors (1 Unit)	This course emphasizes the political, cultural, economic, and social development and growth of civilizations. Various topics include the emergence of nations through trade, communications, intellectual development, and the emerging interdependence of nations in the twentieth century. Emphasis will be placed on preparation for the college classroom, and assignments will include a term paper and supplemental readings. <i>Prerequisite: A student score in 7th Grade above 850 on the CRCT and 90 or higher in current Social Studies class and teacher recommendation. After World History Honors, students will take Honors Economics & American Government or AP US Government (year-long), then US History Honors or AP US History, and AP European History as Seniors. Please refer to the Honors Course statement.</i>
Honors American Government/Civics (½ Unit)	This course is an in-depth study of the American political system. This course focuses on the foundation, principles and structure of the American system of government, examines the role of political parties, social factors as they relate to the role of the citizen, and analyzes the decision-making process that are a part of the system of American political behavior. This course meets the state's Citizenship requirement for graduation.
Honors Economics (1/2 Unit)	Honors Economics focuses on the American economic system; covers fundamental economic concepts, comparative economic systems, microeconomics, macroeconomics and international economic interdependence. Stresses the ability to analyze critically and to make decisions concerning public issues. <i>Prerequisite: Successful completion of Accelerated/Honors World History and teacher recommendation.</i>

FINE ARTS COURSE OFFERINGS

Course Title	Course Description
Beginning Band I (1 Unit)	This course introduces the fundamentals of organized sound. The content emphasizes rules of Western Music composition and offers opportunities to create original works may include using computers for compositions. <i>No prerequisite</i>
Intermediate Band/Concert Band I, II, III and IV (1 Units)	These courses are designed for intermediate-level musicians. During football season, the Concert Band is part of the Pride of Burke County Marching Band. After football season, the band participates in concerts and parades. Attendance at band camp in August, after school rehearsals, and at performances is expected. <i>Students must sign up for the band designated by band director. Prerequisite: Placement is determined by audition.</i>
Advanced Band/Symphonic Band I, II, III and IV (1 Units)	These courses are designed for advanced musicians. During football season, the Symphonic Band is part of the Pride of Burke County Marching Band. Attendance at band camp in August, after school rehearsals, and at performances is expected. <i>Students must sign up for the band designated by band director. Prerequisite: Placement is determined by audition. Membership is limited to those instruments that create a balanced band.</i>
Percussion Techniques (Intermediate Instrumental Ensemble I, II, III, and IV) (1 Unit)	This course introduces basic to advanced percussion technique skills, including performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Students in this class combine to form the drum line for the "Pride of Burke County" Marching Band. <i>Prerequisite: Students must have at least 2 years of middle school band experience and must have band director's approval to register for this class.</i>
Beginning Music Theory/Composition	This course introduces the fundamentals of organized sound and emphasizes rules of Western music composition while offering opportunities to create original works. Computers may be utilized to enhance the composition.
Performing Chorus/Intermediate II & III (Choral Ensemble II, and III) (1 Unit)	These courses enhance performance skills and knowledge in ensemble singing. These courses are designed for the student who has a working knowledge of music, tone quality, pitch, and rhythm. Attendance at after school rehearsals and performances is expected. <i>Prerequisite: Signature of Middle School Choral Director OR Audition/Signature of High School Choral Director.</i>
Performing Chorus/Advanced I & II Choral Ensemble I and II (1 Unit)	These ADVANCED courses enhance performance skills and knowledge in ensemble singing. These courses are designed for the student who has successfully completed intermediate Choral Ensemble III. Attendance at after school rehearsals and performances are expected. <i>Prerequisite: Chorus III or Chorus IV or signature of Choral Director</i>
Dance I & II (1Unit)	This course offers students excellent instruction in dance. It is highly recommended for choral and theater students interested in performing choreographed numbers in musicals and Kaleidoscope. This is also the course designed for color guard choreography for marching season and Competition. Audition and instructor approval required.
Theater Arts/Fundamentals I (1/2 unit)	This entry level course introduces the students to the basics of theater and drama. Students will study common theatre practices and perform in acting exercises, scenes, and monologues. Students will also examine careers in backstage work, including but not limited to, scenery construction, painting, lighting, sound, makeup and costumes. Most areas of

	<p>theater work will be included on a beginning level. <i>Prerequisite: None. Theater Arts/Fundamentals I is a prerequisite for Acting I and Technical Theatre I.</i></p>
<p>Dramatic Arts/Acting I, II and III (1 unit)</p>	<p>These courses emphasize advanced acting techniques, including a variety of acting styles and approaches. Other projects may include script writing for radio, video, or stage, advanced projects in technical theater, and specialized areas of theater such as puppetry, children’s theater, and clowning. Students will read, analyze, and perform cuttings from full-length plays and perform a series of audition monologues. Public performances and some after school rehearsals are expected. <i>Prerequisite: Theater Arts/Fundamentals I or permission of the instructor. Students enrolling in Acting II and III must have completed the lower level Acting course(s) first.</i></p>
<p>Dramatic Arts/Technical Theatre I, II and II (1 unit)</p>	<p>These courses explore a range of technical theatre topics, including scenery production and design, lighting operations, sound design, costumes, make up, and theatrical business. Students are expected to work well independently and in small groups. Opportunities are provided for the students to complete several special projects including working with professional performance companies. Public performances and some after school rehearsals are expected. <i>Prerequisite: Theater Arts/Fundamentals I or permission of the instructor. Students enrolling in Technical Theater II and III must have completed the lower level Technical Theatre courses.</i></p>
<p>Visual Arts/Comprehensive I (1/2 Unit)</p>	<p>Art I is an entry level creative studio course that emphasizes the ability to understand and use elements and principles of design in the creation of artworks in a variety of media and processes. Students are introduced to studies in art history, art criticism and aesthetics. Studio application will be based on drawing, painting, and 3D-ceramic production. NOTE: <i>This class is the prerequisite for future production-based art courses.</i></p>
<p>Visual Arts/Comprehensive II</p>	<p>Art II is an intermediate level creative studio course that continues studies in art production, art history, art criticism, and aesthetics. Students are encouraged to develop experience and expertise in the use of a variety of media. Studio application will focus on using drawing, painting, and 3D sculpture; specifically in ceramics production. Prerequisite: Visual Arts/Comprehensive I. Visual Arts/Comprehensive II is a prerequisite for Visual Arts III. Students enrolling in Visual Arts/Comprehensive II must have completed Visual Arts/Comprehensive I or other approved ½ unit visual art class.</p>

HEALTH AND PHYSICAL EDUCATION COURSE OFFERINGS

Course Title	Course Description
Health (1/2 Unit)	This course explores the mental, physical, and social aspects of life. Various topics of study include safety, mental health, substance abuse prevention, family life education, consumer health, and community health. Included in this course is the Alcohol and Drug Awareness Program (ADAP) required in order to receive a driver's license in the state of Georgia.
Personal Fitness (1/2 Unit)	This course provides instruction in methods for attaining a healthy level of physical fitness. Students will be exposed to fitness principles, nutrition, diets, weight control, stress management, and consumer information. This class promotes self-awareness and responsibility for fitness.
General Physical Education I, II, III, and IV (1/2 Unit)	These courses are designed to promote methods to attain a healthy and active life style. Students will have the opportunity to participate in a combination or variety of team sports, lifetime sports, and outdoor education experiences.
Weight Training (1 Unit)	This course provides opportunities for students to participate in a variety of activities designed to enhance flexibility, muscular strength, cardiovascular endurance, and body composition. The students will learn fitness concepts for the development of healthful lifetime habits. Weight lifting is the primary activity in this course. <i>Prerequisite: Signature of Head Coach of the sport in which they participate</i>

AFJROTC COURSE OFFERINGS

Course Title	Course Description
Aerospace Science 1 (1 Unit)	Leadership and Aviation History – This course focuses on the development of flight throughout the centuries. It is interspersed with concise overviews of the principles of flight to include basic aeronautics, flight power and rockets. Students will also learn leadership, citizenship, time management skills along with military customs and courtesies. All AFJROTC students are required to wear their uniform a minimum of one day a week. <i>Physical Fitness activities are required weekly.</i>

CAREER, TECHNICAL AND AGRICULTURAL EDUCATION (CTAE)

***The following course information is for students
who entered 9th grade in Fall 2016***

***It is also for students who will be in the 10th grade
who began a new pathway in Fall 2016***

***Students who will be in the 11th or 12th Grades
have special requirements based on the pathway they started.***

Please pay close attention to prerequisites and teacher advisement

CAREER, TECHNICAL AND AGRICULTURAL EDUCATION (CTAE)

GEORGIA CAREER CLUSTERS AND PATHWAYS

The CTAE Department at Burke County High School strives to provide instruction to assist **all** students in meeting their career goals. The department is constantly evaluating the Career Clusters offered, and the Pathways within the Career Clusters, to meet the needs of an ever-changing society. Pathways are offered in the following Career Clusters: 1. Agriculture, Food, and Natural Resources 2. Business Management and Administration 3. Transportation (Automotive) 4. Construction 5. Healthcare Science 6. Engineering and Technology (STEM) 7. Human Services 8. Education, 9. Energy and 10. Finance. The goal, of the CTAE Program at BCHS, is to offer students the first step in a seamless education between high school, post secondary school, and work. Pathways and courses are listed under their respective Career Clusters.

Pathway and End of Pathway Assessments (EOPA)

Students interested in a particular Pathway as a career, should take all three courses listed to become a Completer of that Pathway. Students may change pathways at the end of the ninth grade, if so desired, and will still have the opportunity to complete a pathway. Students may complete more than one pathway.

Students completing a Pathway are required, by the Georgia Department of Education, to take an End of Pathway Assessment (EOPA). Depending on the assessment and Certifying Agency, students may earn a certificate of completion and/or industry recognized credential. Not all courses may be offered in a Pathway, and not all courses are offered every year, however, the charts provided represent **all courses** in a particular Pathway. All three courses listed in a Pathway are required to complete the Pathway. Any exceptions are noted. Career and Technical Student Organizations (CTSOs) are listed within their respective program areas.

Course Sequence

Students **must** follow the course sequence to take more courses in the Pathway. The Assessment for that Pathway will **only be given in the 3rd course** for these students. Students are allowed to take **some** second and third courses concurrently. Permission must be obtained to do this if not stipulated in the course description.

CTAE Courses That Meet the Fourth Science Requirement

Several CTAE courses have been identified as courses that may be used to meet both a Career Pathway and/or Fourth Science requirement. Please see your Counselor or Instructor for more information.

Articulated Courses and Dual Enrollment

Burke County High School and Augusta Technical College have *Articulation Agreements* for many courses in the CTAE area as well as in the Academic areas. *Successful completion of these courses may prepare you to take an exemption examination for credit and/or advanced placement at a technical college.* These courses are subject to change. Students may obtain additional information by speaking with their course instructors or their guidance counselors.

In addition, eligible students may be able to participate in Dual Enrollment with Augusta Technical College, while still in High School. Students must meet admissions requirements to Augusta Technical College, which includes an acceptable standardized test score or COMPASS or ASSET test score. Students may obtain additional information by speaking with their guidance counselor.

AGRICULTURE CAREER CLUSTER

This diverse Career Cluster prepares learners for careers in the planning, implementation, production, management, processing, and/or marketing of agricultural commodities and services, including food, fiber, wood products, natural resources, horticulture, and other plant and animal products. It also includes related professional, technical and educational services.

Sample Careers: Farm Manager, Fish and Game Warden, Landscape Architect, Agricultural Engineer, Florist, Nursery Worker, Small Engine Technician, Welder, Construction Worker, Farm Equipment Operator, Veterinarian, Vet Technician, Animal Trainer, and Zoologist.

Basic Agricultural Science is the first course for the following Pathways:

- Plant Systems (Horticulture and Plant Science)
- Power Structure and Technical Systems (Formerly Ag Mechanics – includes welding)
- Note: An Animal Science course is offered to students who have completed one of the above pathways or a pathway from a different cluster. Instructor permission required.

CTSO: FFA See Mr. TenHuisen or Mr. Pedraza (BCHS) or Mrs. Crockett (BCMS) for more information

<p style="text-align: center;">Basic Agricultural Science</p> <p>Instructor: Mr. Pedraza</p> <p><i>Taken before starting any Agriculture Pathway</i></p>	<p>This course is designed as the foundational course for all Agriculture Food and Natural Resource Pathways. The course introduces the major areas of scientific agricultural production and research, presents problem solving lessons and introductory skills and knowledge in agricultural science and agri related technologies. It introduces the major areas of Agricultural Science and help students identify career pathways in agriculture. Emphasis is placed on forestry, animal science, horticulture, agricultural mechanics and leadership development. Classroom instruction, laboratory activities and FFA participation assist students in identifying careers and developing skills needed for entering college, technical school, the armed services, or the work force. CTSO: FFA</p> <p>Students may determine the Pathway they would like to pursue upon completion of this course.</p>
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UPON COMPLETION OF INTRODUCTION TO BASIC AGRICULTURAL SCIENCE:

Pathway	Plant Science	Power Structure
First Course	Basic Ag Science	Basic Ag Science
Second Course	General Horticulture	Ag mechanics I
Third Course	Nursery and Landscape	Ag mechanics II

PATHWAYS	<i>Plant Science/ Horticulture Career Pathway</i>
First Course	Basic Ag Science
Second Course	General Horticulture
Third Course	Nursery and Landscape

Gen. Horticulture & Plant Science Instructor: Mr. Pedraza	2. This course is designed to prepare students for initial employment in common horticulture occupations. Students will study plant science, soils, plant identification and greenhouse management. Students must be willing to get their hands dirty and should enjoy working outdoors. CTSO: FFA Prerequisite: Basic Agriculture
Nursery and Landscape Instructor: Mr. Pedraza	3. This course is designed to provide students with the basic skills and knowledge utilized by the green industry in nursery production and management and landscape design and management. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities. Students must be willing to get their hands dirty and should enjoy working outdoors. CTSO: FFA Prerequisites: Basic Agriculture . General Horticulture must be taken prior to this course or concurrently.

PATHWAYS	<i>Power Structure Career Pathway</i>
First Course	Basic Agriculture
Second Course	Agricultural Mechanics Technology I
Third Course	Agricultural Mechanics Technology II

Agricultural Mech. Tech. I Instructor: Mr. TenHuisen	2. Students will receive instruction in three components of Ag Mechanics – Welding, Electrical Wiring and Basic Woodworking. Students will develop skills using tools, machines and equipment needed for jobs requiring these skills. CTSO: FFA Prerequisite: Basic Agriculture. Please see <i>Stipulated Order Statement</i>
Agricultural Mech. Tech II Instructor: Mr. TenHuisen	3. Students will continue their skill development in additional areas of Ag Mechanics – Tractor Driving and Small Engine Repair. Students will also receive advanced training in Electrical Wiring, Woodworking and Welding. Prerequisites: Basic Agriculture and Agricultural Mechanics Technology I and instructor approval. Please see <i>Stipulated Order Statement. The courses <u>MAY NOT</u> be taken the same year as Ag Mech I.</i>

ANIMAL SCIENCE (STAND ALONE)

Animal Science – Instructor: Mr. Pedraza	<p>As part of the Animal Science pathway program of study, this course is designed to introduce students to the scientific principles that underlie the breeding and husbandry of agricultural animals, and the production, processing, and distribution of agricultural animal products. Introduces scientific principles applied to the animal industry; covers reproduction, production technology, processing, and distribution of agricultural animal products. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p>Prerequisites: <u>Basic Agriculture, completion of or concurrent enrollment in the third course of an additional pathway and permission of Instructor</u></p>
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FINANCE CAREER CLUSTER

The Finance Cluster prepares learners for careers in financial and investment planning, banking, insurance and business financial management. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service and communication.

Sample Careers: Bank Officer, Bookkeeper, Corporate Finance, Financial Planning, Insurance, & Real Estate

Introduction to Business and Technology is the first course of the Business Accounting Pathway

CTSO: FBLA See Mrs. Johnson or Mrs. Webster (BCHS) or Mrs. Falana (BCMS) for more information.

Business Accounting Pathway and Course Descriptions

<i>PATHWAY</i>	<i>BUSINESS ACCOUNTING CAREER PATHWAY</i>
First Course	Introduction to Business and Technology
Second Course	Financial Literacy
Third Course	Accounting I

Introduction to Business and Technology Instructor: Mrs. Johnson	<p>1. Introduction to Business and Technology is the foundation course for all Pathways in two Career Clusters: Finance and Business Management and Administration. The course is designed for high school students to provide an overview of business and technology skills required for today’s business environment. Knowledge of business principals, the impact of financial decisions, and the technology proficiencies demanded by business combine to establish the elements of this course. Emphasis is placed on developing proficient fundamental computer skills required for all career pathways. Students will learn essentials for working in a business environment, managing a business, and owning a business. The intention of this course is to prepare students to be successful both personally</p>
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	<p>and professionally in an information based society. Employability skills are integrated into activities and projects throughout the course.</p> <p>Prerequisite: None</p>
<p>Financial Literacy Instructor: Mrs. Johnson</p>	<p>2. How money smart are you? Step into this course specifically designed for high school students to understand the importance of the financial world, including planning and managing money wisely. Areas of study taught through application in personal finance include sources of income, budgeting, banking, consumer credit, credit laws and rights, personal bankruptcy, insurance, spending, taxes, investment strategies, savings accounts, mutual funds and the stock market, buying a vehicle, and living independently. Based on the hands-on skills and knowledge applied in this course, students will develop financial goals, and create realistic and measurable objectives to be MONEY SMART! Through project-based learning activities and tasks, students will apply mathematical concepts in realistic scenarios and will actively engage by applying the mathematics necessary to make informed decisions related to personal finance. Financial Literacy places great emphasis on problem solving, reasoning, representing, connecting and communicating financial data.</p> <p>Various forms of technologies and internet research will be highlighted to expose students to the resources available when managing personal financial goals. Employability skills are integrated into activities, tasks, and projects throughout the course standards to demonstrate the skills required by business and industry. Competencies in the co-curricular student organization, Future Business Leaders of America (FBLA), are integral components of the employability skills standard for this course.</p> <p>Prerequisite: Introduction to Business and Technology</p>
<p>Accounting I Instructor: Mrs. Johnson</p>	<p>3. This course provides students with a background in the basic accounting procedures used in operating a business and will help prepare students for employment in office jobs such as a bank teller, and as accounting, payroll, or general clerk for a small business. In addition, this course will teach students how to prepare a short EZ Income Tax Form and prepare them for studying business courses in college or technical school. The students will work on computer projects with simulated businesses experiencing fun and excitement in making numbers work for the business through automated accounting.</p> <p>Prerequisite: Introduction to Business and Technology and Financial Literacy</p>

BUSINESS MANAGEMENT AND ADMINISTRATION CAREER CLUSTER

Employees in the Business and Technology pathway use technology to perform and coordinate the administrative activities of an office to ensure that information is collected and disseminated to staff and clients.

Small businesses make up the greatest majority of all businesses (including corporations) in the state of Georgia. Small business development relates to owning, operating and managing a business. Many of these jobs relate to entrepreneurship. Entrepreneurship starts with an idea and works into a booming business through the creation of a business plan. Basic business skills are covered in this pathway, including computer skills, office management, financial management, business law, risk management and insurance, and many others.

Sample Careers: Human Resources, Consulting, Business Owner, Event Planner, Fund Raiser, Data Entry, Administrative Assistants, Legal Secretary, Medical Secretary, Office Manager, Spa Operator, and Receptionist

Introduction to Business and Technology is the first course of the following Pathways

:

- ***Business and Technology***

PATHWAYS	Business and Technology
First Course	Introduction to Business and Technology
Second Course	Business Technology
Third Course	Business Communications

<p>Introduction to Business and Technology</p> <p>Instructor: Mrs. Johnson</p>	<p>1. Introduction to Business and Technology is the foundation course for Pathways in two Career Clusters: Finance (Pathway: Business Accounting) and Business Management and Administration (Pathways: Small Business Development or Administrative Support). The course is designed for high school students to provide an overview of business and technology skills required for today’s business environment. Knowledge of business principals, the impact of financial decisions, and the technology proficiencies demanded by business combine to establish the elements of this course. Emphasis is placed on developing proficient fundamental computer skills required for all career pathways. Students will learn essentials for working in a business environment, managing a business, and owning a business. The intention of this course is to prepare students to be successful both personally and professionally in an information based society. Employability skills are integrated into activities and projects throughout the course.</p> <p>Prerequisite : None Students may determine the Pathway they would like to pursue upon completion of this course.</p>
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<p>Business Technology Instructor: Mrs. Webster</p>	<p>2. How is technology used to solve business problems and communicate solutions? Business and Technology is designed to prepare students with the knowledge and skills to be an asset to the collaborative, global, and innovative business world of today and tomorrow. Mastery use of spreadsheets and the ability to apply leadership skills to make informed business decisions will be a highlight of this course for students. Publishing industry appropriate documents to model effective communication and leadership will be demonstrated through project based learning. Students will use spreadsheet and database software to manage data while analyzing, organizing and sharing data through visually appealing presentation.</p> <p>Various forms of technologies will be used to expose students to resources, software, and applications of business practices. Professional communication skills and practices, problem-solving, ethical and legal issues, and the impact of effective presentation skills are enhanced in this course to prepare students to be college and career ready. Employability skills are integrated into activities, tasks, and projects throughout the course standards to demonstrate the skills required by business and industry. Competencies in the co-curricular student organization, Future Business Leaders of America (FBLA), are integral components of the employability skills standard for this course.</p> <p>Prerequisite: Business and Technology is the second course in the Business & Technology pathway in the Business Management and Administration cluster. Students enrolled in this course should have successfully completed Introduction to Business and Technology.</p>
<p>Business Communication Instructor: Mrs. Webster</p>	<p>3. What messages are you sending when you speak, write, and listen? As one of the most important skills for employers, students will explore the value of communication in their personal and professional life. The digital presence and impact of written and visual communication in a technological society will be addressed. Students will create, edit, and publish professional-appearing business documents with clear and concise communication. Creative design, persuasive personal and professional communications will be applied through research, evaluation, validation, written, and oral communication. Leadership development and teamwork skills will be stressed as students work independently and collaboratively. Presentation skills will be developed and modeled for students master presentation software in this course.</p> <p>Various forms of technologies will be used to expose students to resources, software, and applications of communications. Professional communication skills and practices, problem-solving, ethical and legal issues, and the impact of effective presentation skills are enhanced in this course to prepare students to be college and career ready. Employability skills are integrated into activities, tasks, and projects throughout the course standards to demonstrate the skills required by business and industry. Competencies in the co-curricular student organization, Future Business Leaders of America (FBLA), are integral components of the employability skills standard for this course.</p> <p>Business Communications is the third course in the Business & Technology pathway in the Business Management and Administration cluster. Students enrolled in this course should have successfully completed Introduction to Business & Technology and Business & Technology. After mastery of the standards in this course, students should be prepared to take the end of pathway assessment in this career area.</p> <p>Prerequisites: Introduction to Business and Technology and Business and Technology</p>

HUMAN SERVICES CAREER CLUSTER

Nutrition and Food Science Pathway Course Descriptions

<p>Food, Nutrition, and Wellness</p> <p>Instructor: Ms. Ellison</p>	<p>1. Food, Nutrition and Wellness is the foundational course in the Nutrition and Food Science Pathway. The focus of the course centers on healthy food and lifestyle choices. Students will investigate the relationship of food, nutrition, and wellness to promote good health. This course prepares students to become informed consumers of food and nutrition concepts. Topics studied include food preparation, current nutritional and dietary guidelines, health trends, and food safety. Exploration of a variety of careers in food and nutrition and wellness is an essential component of the course. Mastery of standards through project based learning, technical skills practice, and leadership development activities offered through , Career, and Community Leaders of America (FCCLA) will provide students with a competitive edge for either entry into the education global marketplace and/or the postsecondary institution of their choice to continue their education and training. Labs are included.</p> <p>Prerequisite: None</p>
<p>Food for Life</p> <p>Instructor: Ms. Ellison</p>	<p>2. 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 elderly. The most common nutritional concerns, their relationship 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.</p> <p>Prerequisite: Food, Nutrition, and Wellness</p>
<p>Food Science</p> <p>Instructor: Ms. Ellison</p>	<p>3. Food Science combines the use of science and technology and explores their role in expanding and improving the food supply. Students will evaluate the effects of processing, preparation, and storage on the quality, safety, wholesomeness, and nutritive value of foods. Building on information learned in Nutrition and Wellness and Chemistry, this course exposes students to the wonders of the scientific world. Careers will be explored.</p> <p>Prerequisite: Food Nutrition, and Wellness <u>and</u> Food for Life</p>

EDUCATION AND TRAINING CAREER CLUSTER

Early Childhood Education Pathway Course Descriptions

Preschool, kindergarten and elementary teachers play a vital role in the development of children. They introduce children to math, language, science, and social studies. They use games, music, artwork, films, books, computers, and other tools to teach basic skills.

Sample Careers: Early Childhood Educator, English as a Second Language Teacher (ESL), Special Education Teacher, Nanny, Coach, Teaching Assistant, and Day Care Business Owner

Early Childhood Education I is the first course of the Early Childhood Care and Education Pathway

CTSO: FCCLA Ms. Carson, Ms. Ellison, or Ms. Hudson (BCHS) or Mrs. Roberson (BCMS) for more information

PATHWAY	
First Course	Early Childhood Education I
Second Course	Early Childhood Education II
Third Course	Early Childhood Education III

<p>Early Childhood Education I</p> <p>Instructors: Mrs. Carson & Mrs. Hudson</p>	<p>The Early Childhood Education course is the foundational course under the Early Childhood Career and Education Pathway. This course prepares the student for employment in early childhood education and services. The course addresses the knowledge, skills, attitudes, and behaviors associated with supporting and promoting optimal growth and development of infants and children. Topics that may be addressed include moral development, human needs across the ages, and stages of development. Students will learn how to create a developmentally appropriate learning environment and write lesson plans. In addition, students will learn the appropriate response to cultural diversity and students with special needs, and career decisions.</p> <p>Prerequisite: None</p>
<p>Early Childhood Education II</p> <p>Instructor: Mrs. Hudson</p>	<p>Early Childhood Education II is the second course in the Early Childhood Care and Education pathway and further prepares the student for employment in early childhood care and education services. The course provides a history of education, licensing and accreditation requirements, and foundations of basic observation practices and applications. Early childhood care, education, and development issues are also addressed and include health, safety, and nutrition education; certification in CPR/First Aid/Fire Safety; information about child abuse and neglect; symptoms and</p>

	<p>prevention of major childhood illnesses and diseases; and prevention and control of communicable illnesses. Mastery of standards through project based learning, laboratory application, technical skills practice, and leadership development activities of the career and technical student organizations will provide students with a competitive edge for either entry into the education global marketplace and/or the post-secondary institution of their choice when continuing their education and training.</p> <p>Prerequisite: Early Education I and permission of Instructor</p>
<p>Early Childhood Education III</p> <p>Instructor: Ms. Hudson</p>	<p>Early Childhood Education III is the third course in the Early Childhood Care and Education pathway and one option for program completers who may not have the opportunity of participating in the Early Childhood Education Internship. The course provides in-depth study of early brain development and its implications for early learning, appropriate technology integration, and developmentally appropriate parenting and child guidance trends. Also addressed are collaborative parent/teacher/child relationships and guidance, child directed play, the changing dynamics of family culture and diversity, the causes and effects of stress on young children, and infant nutrition.</p> <p>Mastery of standards through project based learning, laboratory application, technical skills practice, and leadership development activities of the career and technical student organizations will provide students with a competitive edge for either entry into the education global marketplace and/or the post-secondary institution of their choice when continuing their education and training.</p> <p>Prerequisites: Early Childhood I and II and permission of Instructor</p>

Teaching as a Profession Pathway Course Descriptions

Ever thought about teaching? Educational services are the second largest industry, accounting for about 13 million jobs. The educational services industry includes a variety of institutions that offer academic education, vocational or career and technical instruction and other education and training to millions of students each year. Institutions include elementary, middle and secondary schools, universities, colleges, professional schools, community or junior colleges and career and technical institutes.

Sample Careers: Teachers at all levels (primarily K-12), Educational Administrators, Instructional Coordinators, Media Specialists, Teaching Assistants, Social Workers, Special Education Teachers, and Post Secondary Instructors

Note: Students specifically interested in teaching at a Day Care Center or teaching PreK or Kindergarten may want to take the Early Childhood Education Career Pathway.

PATHWAY	Teaching as a Profession
First Course	Examining the Teaching Profession
Second Course	Contemporary Issues in Education
Third Course	Teaching as a Profession Practicum

<p>Examining the Teaching Profession</p> <p>Instructor: Mrs. Carson</p>	<p>Examining the Teaching Profession is the foundational course that prepares students for future positions in the field of education at any grade level. Teaching as a Profession students study, apply, and practice the use of current technologies, effective teaching and learning strategies, the creation of an effective learning environment, the creation of instructional opportunities for diverse learners and students with special needs, and plan instruction based on knowledge of subject matter, students, community, and curriculum performance standards.</p> <p>Prerequisite: None</p>
<p>Contemporary Issues in Education</p> <p>Instructor: Mrs. Carson</p>	<p>This course engages the candidate in observations, interactions, and analyses of critical and contemporary educational issues. The candidate will investigate issues influencing the social and 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.</p> <p>Prerequisite: Examining the Teaching Profession</p>
<p>Teaching as a Profession Practicum</p> <p>Instructor: Mrs. Carson</p>	<p>The practicum offers a candidate in the Teaching as a Profession career pathway a field experience under the direct supervision of a certified teacher (mentor teacher). The practicum 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 students with special needs, maintain the safety of the students, practice professionalism, and demonstrate ethical behavior.</p> <p>Prerequisites: Examining the Teaching Profession and Contemporary Issues in Education</p>

GEORGIA CAREER CLUSTER: HEALTH SCIENCE

Allied Health and Medicine Pathway Course Descriptions

The Health Science Career Cluster orients students to careers that promote health, wellness, and diagnosis as well as treat injuries and diseases. Some of the careers involve working directly with people, while others involve research into diseases or collecting and formatting data and information. Work locations are varied and may be in hospitals, medical or dental offices or laboratories, cruise ships, sports arenas, space centers, or within the community. Careers are focused primarily on changing the health status of the patient over time.

Sample Careers: Physician, Athletic Trainer, Lab Technician, Dental Hygienist, Dentist, Registered Nurse (RN), Licensed Practical Nurse (LPN), Certified **Nursing** Assistant (CNA), Occupational Therapist, Midwife, Mental Health Nurse, Paramedics, and Veterinarians

PATHWAY	Therapeutic Services/ Allied Health and Medicine
First Course	Introduction to Healthcare Science
Second Course	Essentials of Healthcare
Third Course	Allied Health and Medicine

<p>Introduction to Healthcare Science</p> <p>Instructor: Mrs. Dent</p>	<p>1. Introduction to Healthcare Science is the foundational course for all Healthcare Science Pathways courses. It is appropriate for students wishing to pursue a career in the Healthcare Industry. This course will enable students to receive initial exposure to Healthcare Science careers as well as employability and communication skills necessary in the healthcare industry. The concepts of human growth and development, health, wellness, and preventative care are evaluated, as well as legal, ethical, and technology responsibilities of today’s healthcare provider. Fundamental healthcare skills development is initiated including microbiology, basic life support and first aid. Students are required to meet both national and intrastate professional guidelines as designated by applicable regulatory agencies. Such as the Occupational Health and Safety Administration (OSHA) and Center for Disease Control (CDC). Mastery of these standards through project based learning, technical skills practice, and leadership development activities of the career and technical student organization HOSA.</p> <p>Prerequisite: None. .</p>
<p>Essentials of Healthcare</p> <p>Instructor: Mrs. Dent</p>	<p>2. Anatomy and Physiology is a vital part of most healthcare post-secondary education programs. The Essentials of Healthcare is a medical-focused anatomy course addressing the physiology of each body system, along with the investigation of common diseases, disorders and emerging diseases. The prevention of disease and the diagnosis and treatment that might be utilized are addressed, along with medical terminology related to each system. This course provides an opportunity to demonstrate technical skills that enforce the goal of helping students make connections between medical procedures and the pathophysiology of diseases and disorders. The pre-requisite for this course is Introduction to Healthcare.</p>

	Prerequisite: Introduction to Healthcare Science
Allied Health Instructor: Mrs. Dent	<p>3. This course is designed to offer students (preferably upper classmen - juniors or seniors) the opportunity to become effective and efficient multi-skilled healthcare providers as they develop a working knowledge of various allied health opportunities. Students focusing on a career path in the healthcare field may apply classroom/lab knowledge and skills in the clinical setting as they participate in direct or simulated client care. The curriculum allows instructors to provide options for classroom/student growth opportunities in area(s) of interest to the student. These options may be determined by community need, available resources, and/or student interest, etc. This course was developed according to a basic 50-minute class time frame, but may be adjusted according to local system schedules. Instructors may select which classroom content standards 1-14 best meet his/her individual classroom needs in addition to the required clinical/capstone project to equal total class time available for the course.</p> <p>Prerequisite: Introduction to Healthcare Science and essentials of Healthcare</p>

GEORGIA CAREER CLUSTER: SCIENCE TECHNOLOGY ENGINEERING AND MATH (STEM)

Engineering Pathway

A career in science, technology, engineering or mathematics is exciting, challenging, and ever-changing. Today’s professionals in the engineering and technology field continue to revolutionize the way we live. They design, produce, operate, and maintain a variety of equipment and services we use in everyday life.

Many engineering and technology career opportunities relate to the diverse field of energy . There are many people who help generate energy, transport it and connect it to things we use every day.

Sample Careers: Robotics, Civil Engineer, Mechanical Engineer, Nuclear Engineer, Electrical Engineer, Drafter, Engineering Technician, Industrial Engineer, Inventor, Quality Control, Technical Writer, Researcher, and Environmental Engineer

CTSO: TSA See Instructor Mr. Bush (BCHS) or Mr. Kelly (BCMS) for more information

Foundations of Engineering and Technology Instructor: Mr. Bush	<p>The Foundations of Engineering and Technology is the introductory course for the Engineering and Technology and Energy Systems pathway. This STEM driven course provides the students with an overview of engineering including the different methods used in the engineering design process. This course provides students with the opportunities to develop fundamental technology and engineering literacy as they learn about the history, systems, and processes of technological concepts and developments. Students will demonstrate the skills and knowledge they have learned through various project based activities while using an engineering design process to successfully master the “E” in STEM.</p> <p>Prerequisite: None</p>
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<p>Engineering Concepts</p> <p>Instructor: Mr. Bush</p>	<p>2. Engineering Concepts is the introduction to principles and activities in the field of Engineering. This course involves the practical application of scientific and mathematical principles for the purpose of solving real world and/or simulated problems and communicating technical information. Students use tools and materials to design, engineer and evaluate products and systems as a means of examining the relationship of technology on society as well as society on technology. CTSO: TSA</p> <p>Prerequisite: Foundation of Engineering and Technology.</p>
<p>Engineering Applications</p> <p>Instructor: Mr. Bush</p>	<p>3. This advanced course of study in the engineering field is recommended for students in Grades 11-12. Students conduct research and/or design an engineering project. Students sharpen their aptitude and expand their interest through experiences in the field of engineering. The course enables them to make an informed career choice through the study, application and practice of mechanical, electrical and other engineering systems. Projects will reinforce the application of communication, mathematics and science. Computer programs will be used extensively in this course to enable the students to visualize, solve and report on complex design problems. CTSO: TSA</p> <p>Prerequisite: Foundation of Engineering and Technology and Engineering Concepts.</p>

ENERGY CLUSTER

Energy and Power: Generation, Transmission, and Distribution Pathway Course Descriptions

The energy industry is the third largest industry in the United States. U.S. energy companies produce oil, natural gas, coal, nuclear power, renewable energy and electricity services, as well as supply energy and electricity technologies worldwide. There are many people who help conserve, generate energy, transport it and connect it to the things we use every day. There are also those creating new methods of energy generation.

Sample Careers: Working in energy can mean working for utilities, for gas and oil companies, for government and research groups, for energy education or environmental regulation agencies, for nonprofit energy awareness and conservation organizations or for many other energy related agencies. Most of the electricity produced in the United States comes from nonrenewable sources such as coal, petroleum and natural gas.

Related jobs include power plant operators, power distributors and dispatchers, industrial machinery mechanics, reactor operators and engineers. Renewable power generation, from sources such as wind, water, solar and biomass, are becoming more common. Research and development in this area is ongoing, therefore, the job opportunities in renewable energy will continue to increase.

CTSO: TSA See Instructor Mr. Flowers (BCHS) or Mr. Kelly (BCMS) for more information

<p>Foundation of Energy Technologies</p> <p>Instructor: Mr. Flowers</p>	<p><u>Foundations of Energy Technologies</u> is the <u>first course in the Energy and Power: Generation, Transmission, and Distribution Pathway.</u> This course is designed to allow students to develop a broad understanding of the energy industry how electricity gets from where it is produced to homes and businesses. The course includes the infrastructure of the energy industry and the generation, transmission and distribution of nonrenewable, renewable, and inexhaustible energy sources. Energy sources will be researched to include the regional and global economic implications, environmental, and sustainability issues. Students will explore future trends of energy and power. Students will develop, through research, an alternative energy system that will demonstrate their understanding of a unique, as well as appropriate, approach to energy and power generation</p>
<p>Energy And Power: Generation, Transmission, Distribution</p> <p>Instructor: Mr. Flowers</p>	<p>Energy and Power: Generation, Transmission, and Distribution is the second course in the Energy and Power pathway. In this course, students will continue to learn about energy and power industry fundamentals by furthering their knowledge regarding electric power generation, transmission and distribution. In addition, the students will gain knowledge about business models, regulations, and safety within the energy industry.</p>

THIRD COURSE: Energy Systems Applications: Available FY 18

GEORGIA CAREER CLUSTER: TRANSPORTATION (AUTOMOTIVE)

Rapid advancement of new technology has created a need for highly skilled automotive technicians. Employment opportunities exist in new car dealerships, independent repair shops, specialty shops and fleet agencies.

Sample Careers: Mechanic, Service Manager, Diagnostician, Aircraft Mechanic, Automotive Painter, Automotive Recycler, Diesel Mechanic, Heavy Equipment Technician, Automotive Engineer, Motorcycle Mechanic, and Racecar Technician

Basic Maintenance and Light Repair (MLR) is the first course in the Transportation (Automotive) Pathway

PATHWAY	Basic Maintenance and Light Repair
First Course	Basic Maintenance and Light Repair I
Second Course	Basic Maintenance and Light Repair II
Third Course	Basic Maintenance and Light Repair III

<p>Basic Maintenance and Light Repair (MLR) I</p> <p>Instructor: Mr. Lane</p>	<p>This course is designed as the foundational course for the Automobile Maintenance and Light Repair Pathway. Students in this course will learn the basic skills needed to gain employment as a maintenance and light repair technician. Students will be exposed to courses in automotive preventive maintenance and servicing and replacing brakes, and steering and suspension components. In addition, students will learn how to do basic tests and determine necessary action. In addition hours completed in this course are aligned with ASE/NATEF standards and are a base for the entry-level technician. Students will be required to do hands on work in the shop to pass this course.</p> <p>Please see Mr. Lane (BCHS) for more information.</p>
<p>Basic Maintenance and Light Repair (MLR) II</p> <p>Instructor: Mr. Lane</p>	<p>Students will learn the basic skills needed to gain employment as a maintenance and light repair technician and will expose students to automotive preventative maintenance and servicing, as well as replacing brakes, and steering and suspension components. Students will also learn general electrical system diagnosis, electrical theory, basic test requirements, and determining necessary action. In addition, students will learn how to evacuate and recharge air-conditioning systems using the proper refrigerant. Standards for this course are aligned with ASE/NATEF standards and are an excellent foundation for the entry-level technician.</p> <p>The prerequisite for this course is Basic Maintenance and Light Repair I</p>
<p>Basic Maintenance and Light Repair</p>	<p>Students will learn the basic skills needed to gain employment as a maintenance and light repair technician and will expose student to automotive preventative maintenance and servicing, replacing brakes, as well as</p>

<p>(MLR) III</p> <p>Instructor: Mr. Lane</p>	<p>steering and suspension components. Students will learn about general electrical system diagnosis, electrical theory, basic tests that are required, and determine the necessary action. In addition, students will learn how to evacuate and recharge air-conditioning systems using the proper refrigerant. The standards in this course are aligned with ASE/NATEF standards and are an excellent foundation for the entry-level technician.</p> <p>The prerequisites for this course are Basic Maintenance and Light Repair I and II.</p>
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GEORGIA CAREER CLUSTER: CONSTRUCTION

Employees in construction literally build our future! These are the people who build and remodel houses, apartments, industrial buildings, warehouses, office buildings, churches, schools and recreational facilities. This pathway also includes the builders of highways, streets, bridges, tunnels and airports as well as power plants, chemical plants, refineries and mills.

Sample Careers: Architect, Stone Masons, Brick Layers, Home and Building Inspector, Carpenter, Civil Engineer, Plumber, Electrician, Construction Manager, Crane Operator, Demolition, Ironworker, Welder, Real Estate Appraiser, Solar Energy Technician, Surveyors, Construction Site Workers (like at Plant Vogtle).

CONSTRUCTION CAREER PATHWAY

First Course	Industry Fundamentals and Occupational Safety
Second Course	Introduction to Construction
Third Course	Carpentry I
Students will have opportunity to take additional courses – see instructor	

<p>Industry Fundamentals and Occupational Safety</p> <p>Instructor: Mr. Arrington</p>	<p>This course is the foundational course in the Carpentry, Plumbing, Electrical, and Masonry pathways to prepare students for pursuit of any career in construction. The course prepares the trainee for the basic knowledge to function safely on or around a construction site and in the industry in general and will provide the trainee with the options for an Industry Certification in the Construction Core. It includes the basic content of OSHA 10-hour safety standards. It also includes the basic knowledge and skills needed in the following areas: construction math, hand and power tools used in the field, general blueprint reading, and basics of rigging safety. Students will be involved in a number of hands on construction activities to reinforce knowledge learned in the classroom.</p> <p>CTSO: SKILLS USA Mr. Jeff Johnson (BCHS) for more information.</p>
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<p>Introduction to Construction</p> <p>Instructor: Mr. Arrington</p>	<p>2. This course is preceded by the Occupational Safety and Fundamentals course. This course offers an opportunity for students to build on their knowledge and skills developed in Occupational Safety. It introduces them to the four construction craft areas and is also the second step towards gaining a Level One Industry Certification in one of the craft areas. The goal of this course is to expose students to Plumbing, Masonry, Carpentry, and Electrical through hands on activities. Each student will visit each trade area and study the history of the trade, tools of the trade, and how to use these tools. CTSO: SKILLS USA</p> <p>Prerequisite: Completion of Occupational Safety and Fundamentals and instructor approval.</p>
<p>Carpentry I**</p> <p>Instructor: Mr. Arrington</p>	<p>This course is preceded by Introduction to Construction and is the third of three courses that provides the student a solid foundation in carpentry skills and knowledge. As the third step in gaining a Level One Industry Certification in Carpentry, the course provides an overview of the building materials used in the carpentry craft, as well as teaching techniques for reading and using blueprints and specifications related to the carpentry craft. The course provides specific knowledge and skills in site layout and floor and wall framing systems, and includes basic industry terminology for a carpentry craftsman CTSO: SKILLS USA</p> <p>Prerequisites: Occupational Safety and Fundamentals and Introduction to Construction. Instructor approval is also required.</p>

****Additional Level I Courses are available and registered on an individual basis. See Construction instructor, Tony Arrington for more information.**

**Masonry I
Plumbing I
Electrical I**

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