

CAREER PLANNING GUIDE



CAREER, TECHNICAL AND AGRICULTURAL EDUCATION

Greetings Barrow County Students,

Preparing students for success after high school is an inherent component of the Barrow County School System's vision. Whether you plan to enter the workforce immediately or attend college after high school graduation, high school course options will impact your future so I encourage you to give it careful consideration. To better prepare you for the demands of the 21st century economy and for post-secondary education, please utilize this guide to set career goals and plan for the world of work. This planning guide shows the clear connection between class work and your future success. I encourage you to talk to your parents, teachers and counselors to help select the best path for you. We are excited about your future possibilities, and we are always Boldly Committed to Your Success!

Chris McMichael, Ed.D.
Superintendent
Barrow County School System



Barrow County, Georgia boasts a diverse economy, and according to the U.S. Census Bureau, it's one of the nation's fastest growing counties. Agribusiness, distribution & logistics, manufacturing and more in Barrow County drive the area's modern economy. Barrow County is an excellent location for business in Georgia due to the level of workforce training available to students still in the Barrow County School System or attending Lanier Technical College.

Lisa Maloof
Director, Barrow County Economic & Community Development

Boldly Committed to Student Success

Barrow County School System is an Equal Opportunity Educator/Employer with established policies prohibiting discrimination on the basis of age, race, creed, religion, color, sex, national origin, disability or handicap, sexual orientation, or political affiliation in an educational program, activity, or employment in the district and provide equal access to the Boy Scouts and other designated youth groups.

PATHWAY REQUIREMENT

As part of the Barrow County School System graduation requirements, students are required to choose a pathway to complete while in high school.

Pathways consist of three (3) courses in a related area that are taken sequentially.

Students choose from the following areas:

- Career, Technical, & Agricultural Education (CTAE)
- World Languages
- Fine Arts



CHOOSING A PATHWAY

Beginning in elementary school and continuing through high school, students are exposed to a variety of career development activities to lead them towards making potential career decisions. While it is not expected that students know exactly what they want to be when entering high school, it is the hope that students have begun making some decisions that are guiding their education. The career development activities that students have been exposed to should serve as a good starting point when students begin to pick a pathway.

While it is required that students complete one pathway to graduate, most students will have the opportunity to complete two or possibly three pathways before graduation, providing multiple opportunities for students to explore their interests.

Pathways are offered at multiple locations and students should pay attention to the location of each course when choosing classes.

Career Planning Resources:

<https://www.careeronestop.org/ExploreCareers/explore-careers.aspx>

<https://www.gafutures.org/career-exploration/georgias-career-clusters-and-pathways/>



CTAE PATHWAYS

Career-focused planning will lead you to selecting a Career, Technical and Agricultural Education (CTAE) pathway. CTAE provides academic skills and real-world experiences necessary to build fulfilling careers in the 21st Century.

In CTAE programs and courses, students are prepared for post-secondary education and for the workplace. Career, Technical and Agricultural Education is a vital component of the total education of an individual and is available to every high school student in the Barrow County School System.

Advisors, counselors, teachers, and parents are all great resources to help students begin making important decisions about their future!

CTAE Graduation Rates



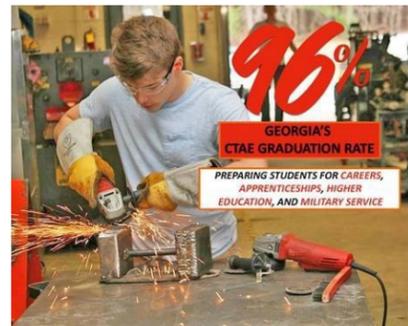
CTAE graduation rate hits high of 96 percent

December 14, 2017 – The graduation rate for students involved in Career, Technical, and Agricultural Education (CTAE) programs has risen to 96 percent in Georgia.

This rate – which applies to students who complete a Career Pathway – exceeds the state-wide graduation rate by 15.4 percentage points.

“Students need to be engaged and see the relevance of their education – and CTAE makes that happen,” State School Superintendent Richard Woods said. “We continue to see that students who complete a Career Pathway are prepared for their future – whether that’s higher education, serving in the military, accepting an apprenticeship or going directly into their career. CTAE connects Georgia’s K-12 schools with business and industry, building a qualified pipeline of students who are ready to participate meaningfully in Georgia’s industries and communities. It’s a win for Georgia’s economy and a win for Georgia’s graduates.”

“Pathway completion helps to keep students in school and helps to get students focused on a very important target – their careers,” State CTAE Director Dr. Barbara Wall said. “Pathway completers are more likely to graduate and more likely to continue in post-secondary education.”



CTAE Flow Chart

Pathways consist of three courses in a related area that are taken sequentially.



Upon completion of a pathway, students have a few options available to them.

- For many career clusters, students may take one additional class which would result in the completion of a second or third pathway in a similar area.
- Students may also apply for Work-Based Learning. This is an opportunity students (that are at least 16 years old) to work in a local business through an internship or paid part-time position that is related to their career pathway and career goals. See the WBL Coordinator at your high school for more details.
- Students may also want to consider dual enrollment options. This would enable the student to continue their study in that specific area with more rigorous content and earn college credit and high school credit at the same time. Please see the Career Counselor at your high school for more details.



WBL
Work-Based Learning
FOCUS ON THE FUTURE



Work-Based Learning is offered as a culminating experience for all pathways, including fine art, modern language, and academic. Students are placed at worksites where they gain real-world experience.

What will you do in Work-Based Learning?

- Work at a job site as part of your school day (during normal class periods)
- Gain relevant skills in a chosen career area
- Develop professional relationships
- Develop a career portfolio
- Make decisions about future education and training

Talk to the Work-Based Learning Coordinator at your school to see if this is the right opportunity for you and to apply for next year.

Youth Apprenticeship is a structured combination of related coursework completed at the high school level and on-the-job training specific to a post-secondary credential which the employer and student is committed to. Students under Youth Apprenticeship are committed to working towards their post-secondary credentials and accumulating a minimum of 720 hours of on-the-job training.

Dual Enrollment

Georgia's Dual Enrollment Program allows eligible high school students to earn college credit while working on their high school diploma. The goal of Dual Enrollment is to increase college access and completion and to prepare students to enter the workforce with the skills they need to succeed. This is an incredible opportunity that also reduces the financial burdens on families for the cost of college.



To participate in Dual Enrollment, students must meet the admissions requirements at the post-secondary institution of their choice and make satisfactory academic progress throughout their classes. Eligible students may choose to pursue a post-secondary degree, diploma, or certificate or take individual classes. Students may attend part-time, which is most common, or full-time.

The Dual Enrollment program covers tuition, mandatory fees, and required textbooks. Students may incur expenses for course related fees and supplies required for a particular course. Students are responsible for providing their own transportation for dual enrollment. Shuttles to and from Sims Academy on the Workforce Development Campus can be utilized to the Lanier Technical College Barrow on days when BCSS are in session.

For more information about Dual Enrollment, please contact the Career Coordinator at your school.

Career Ready Diploma



Employability/Soft Skills Seal

Awarded to high school graduates who:

- Complete a state-recognized soft skills program approved by the local system and their business partners



Distinguished Employability/Soft Skills Seal

Awarded to high school graduates who:

- Complete the requirements above
- AND**
- Earn at least one unit in a state-approved Work-Based Learning program in the concentrated pathway area



Pathway Skills Seal

Awarded to high school graduates who:

- Complete a Career, Technical and Agricultural Education (CTAE) pathway in one of Georgia's 17 Career Clusters

AND ONE OF THE FOLLOWING

- Pass an End of Pathway Assessment (EOPA)/Industry Recognized Credentialing exam (if it applies)
- Complete a pathway in an industry-certified program
- Earn at least one unit in a state-approved Work-Based Learning program in the concentrated pathway area
- Complete all components of the Career-Related Capstone Project in the concentrated pathway area, as outlined by the Ga DOE

OR

- Via dual enrollment complete two Technical Certificates of Credit (TCC) in one pathway, earning a Technical College Diploma, or earning an Associate's Degree (Senate Bill 2 requirements)



Agriculture, Food, and Natural Resources Career Cluster	
Agricultural Mechanics Systems	8
Agricultural Mechanics and Metal Fabrication	9
Companion Animal Systems	10
Plant and Floral Design Systems	11
Plant and Landscape Systems	12
Veterinary Science	13
Architecture and Construction Career Cluster	
Architectural Drawing and Design	14
Carpentry	15
Electrical	16
Welding	17
Arts, Audio-Video Technology and Communications Career Cluster	
Audio and Video Technology and Film	18
Graphic Communication	19
Graphic Design	20
Business, Management, and Administration Career Cluster	
Business and Technology	21
Education and Training Career Cluster	
Early Childhood Care & Education	22
Teaching as a Profession	23
Government and Public Administration Career Cluster	
JROTC	24
Health Science Career Cluster	
Allied Health	25
Biotechnology	26
Certified Nurses Aid.....	27
Hospitality and Tourism Career Cluster	
Culinary Arts	28
Hospitality, Recreation and Tourism	29
Human Services Career Cluster	
Nutrition and Food Science	30
Information Technology Career Cluster	
Computer Science	31
Programming, Apps & Game Design	32
Web & Digital Design	33
Law, Public Safety, Corrections, and Security Career Cluster	
Corrections Services.....	34
Fire Science.....	35
Law Enforcement Services	36
Manufacturing Career Cluster	
Mechatronics	37
Robotics and Applied Science	38
Marketing Career Cluster	
Marketing and Management	39
Science, Technology, Engineering, and Math Career Cluster	
Engineering and Technology	40
Transportation, Distribution, and Logistics Career Cluster	
Automotive Electrical/Electronics Systems Technician.....	41
Automotive Engine Performance Technician	42



AGRICULTURAL MECHANICS SYSTEMS

Agricultural education is the teaching of agriculture, natural resources, and land management through hands on experience and guidance to prepare students for entry level jobs or to further education to prepare them for advanced agricultural jobs.

PATHWAY COURSE & DESCRIPTIONS:

Course 1—Basic Agriculture Science - 02.47100

This course is designed as an introduction or support course for the Agriscience Pathway Program of Study. 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. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Course 2—Agricultural Mechanics I - 01.42100

This laboratory course is designed to provide students with introductory level experiences in selected major areas of agricultural mechanics technology which may include small engine maintenance and repair, metal fabrication, wood working, electrical wiring, and maintenance of agricultural machinery, equipment, and tractors. Learning activities include information, skill development, and problem solving.

Course 3—Agricultural Mechanics II - 01.42200

The goal of this laboratory course is to offer students intermediate level experiences in selected major areas of agricultural mechanics technology which may include small engine maintenance and repair, metal fabrication, concrete construction, building construction, plumbing, electrical wiring, soil and water conservation, and maintenance of agricultural machinery, equipment and tractors. Learning activities include information, skill development, and problem solving.

Check out these schools that offer majors related to the Agriculture Industry...

Abraham Baldwin Agricultural College
Fort Valley State
University of Georgia

HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Agriculture Careers	Annual Wages
• Agricultural Engineer	\$57,762
• Farm Equipment Mechanic	\$30,618
• Industrial Machinery Mechanic	\$38,522
• Industrial Truck & Tractor Op	\$26,894

Source: U.S. Department of Labor



The National FFA Organization is an American youth organization, specifically a career and technical student organization, based on middle and high school classes that promote and support agricultural education. The organization was founded in 1928 as Future Farmers of America, but in 1988 the name was changed to the National FFA Organization, now commonly referred to as simply FFA, to recognize that the organization is for those with diverse interests in the food, fiber and natural resource industries, encompassing science, business and technology in addition to production agriculture. For More Information: Georgia FFA - www.georgiaffa.org; National FFA - www.ffa.org



AGRICULTURAL MECHANICS & METAL FABRICATION

Agricultural education is the teaching of agriculture, natural resources, and land management through hands on experience and guidance to prepare students for entry level jobs or to further education to prepare them for advanced agricultural jobs.

PATHWAY COURSE & DESCRIPTIONS: (Currently, this pathway is only available at WBHS)

Course 1—Basic Agriculture Science - 02.47100

This course is designed as an introduction or support course for the Agriscience Pathway Program of Study. 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. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Course 2—Agricultural Mechanics Technology I - 01.42100

This laboratory course is designed to provide students with introductory level experiences in selected major areas of agricultural mechanics technology which may include small engine maintenance and repair, metal fabrication, wood working, electrical wiring, and maintenance of agricultural machinery, equipment, and tractors. Learning activities include information, skill development, and problem solving.

Course 3—Agricultural Mechanics Fabrication - 01.42200

This course is designed to provide students with a more in-depth study of agricultural metal fabrication. Students interested in agricultural mechanics will have the opportunity to explore the many career possibilities in the field of agricultural metal fabrication. Additionally, hands-on-laboratory activities enhance the classroom learning experience and provide students with the skills needed to participate in Supervised Agricultural Experience Programs and FFA Career Development Events.

Check out these Georgia schools that offer majors related to the Agriculture Industry...

Abraham Baldwin Agricultural College
Auburn University
Florida State University
Fort Valley Valley State
Texas A&M
University of Georgia

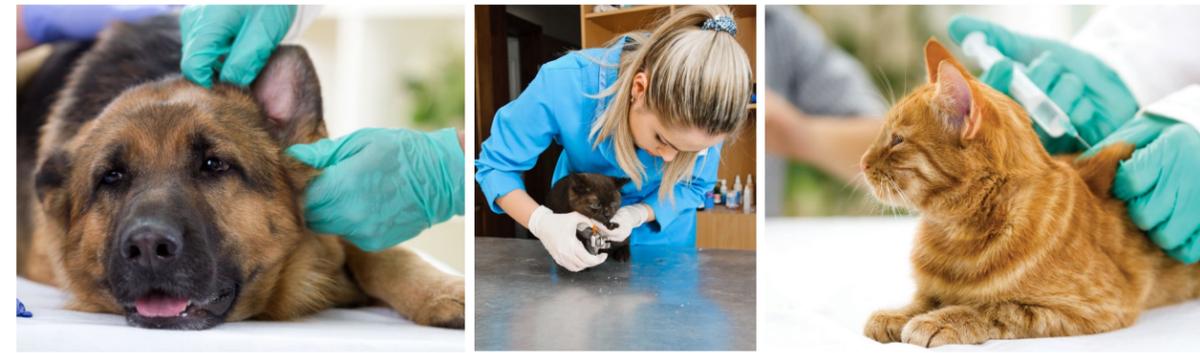
HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Agriculture Careers	Annual Wages
• Agricultural Education Teacher	\$56,130
• Agricultural Engineer	\$57,762
• Environmental Engineer Tech	\$34,112
• Environmental Engineer	\$65,749
• Env Compliance Inspector	\$51,667
• Welder	\$42,267

Source: U.S. Department of Labor



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COMPANION ANIMAL SYSTEMS

Companion animals are a large part of the animal care industry. There are many services and career opportunities in this career pathway area. Veterinarians care for the health of animals and work to improve public health. They diagnose, treat, and research medical conditions and diseases of pets, livestock, and other animals. Animal care and service workers provide care for animals. They feed, water, groom, bathe, and exercise pets and other non-farm animals.

PATHWAY COURSE & DESCRIPTIONS:

Course 1—Basic Agriculture Science - 02.47100

This 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. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

- Livestock Breed Identification • Soil Formation and Management • Wildlife Identification • Animal Growth and Production • Leadership Skills

Course 2—Animal Science & Biotechnology - 02.42100

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. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

- Breeding of Agricultural Animals • Processing and Distribution of Animal Products • Livestock Nutrition • Economics of Livestock Industry. ***This course counts toward satisfying the fourth science requirement and a CTAE pathway completion requirement.***

Course 3—Small Animal Care - 02.42300

The goal of this course is designed to provide students with skills and concepts involved with the care and management of companion animals. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Check out these Georgia schools that offer majors related to the Agriculture Industry...

Athens Technical College
Fort Valley State University
Gwinnett Technical College
University of Georgia

HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Agriculture Careers	Annual Wages
• Veterinary Assistants	\$25,250
• Animal Trainers	\$27,690
• Veterinary Technologists & Techs	\$32,490
• Animal Care Supervisor	\$45,320
• Veterinarians	\$88,770

Source: U.S. Department of Labor



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PLANT AND FLORAL DESIGN SYSTEMS

A career in plant science and floral design systems offers a variety of job opportunities in the fields of education, research, golf and sports turf, landscape design, parks and gardens, public service, production management, and sales and marketing. Some jobs available include landscape designer, greenhouse manager, golf course superintendent, plant breeder, florist, agricultural chemical researcher and garden center owner.

PATHWAY COURSE & DESCRIPTIONS:

Course 1—Basic Agriculture Science - 02.47100

This course is designed as the foundational course for all Agriculture, Food & Natural Resources Pathways. The course presents introductory skills and knowledge in agricultural science and agri-related technologies. The course covers: • Plant and Animal Basics • Environment and Natural Resources • Land Management • Mechanical Agriculture Operations • Opportunities to Compete

Course 2—General Horticulture and Plant Science - 01.46100

This course introduces the major concepts of plant and horticulture science. The course covers: • Greenhouse use • Classifying Plants and Trees • Lawn and Garden Equipment • Floral Designing • Gardening for Healthy Living • Soil Science.

This course counts toward satisfying the fourth science requirement and a CTAE pathway completion requirement.

Course 3—Floral Design and Management - 01.46600

This laboratory course is designed to prepare students to apply systematic business procedures and design principles in the operation of a retail or wholesale floral business. Students will learn about the cut flower industry, the history of floral design, identification of flowers and foliage, design shapes, mechanics of design, everlasting flowers, and use knowledge and skills to create custom design work for special occasions.

Check out these Georgia schools that offer majors related to the Agriculture Industry...

Chattahoochee Technical College
Georgia State University
Gwinnett Technical College
Lanier Technical College
Technical College System of Georgia

HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Agriculture Careers	Annual Wages
• Floral Designer	\$25,280
• Landscaping & Groundskeeping	\$26,320
• Retail Store Manager	\$39,040

Source: U.S. Department of Labor



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PLANT AND LANDSCAPE SYSTEMS

Develop your skills in Georgia's dynamic Green Industry by developing your knowledge and skills to join the select few who pass the certification requirements to become a Certified GGIA Jr. Plant Professional. Also, learn how to live a healthier lifestyle through work in our gardens and a better way to enhance the beauty of our environment by building and maintaining quality landscapes on campus and in the community. You will learn business, science and industry techniques while working in the greenhouse, landscaping our campus, and growing and maintaining turf plots. If this appeals to you, then the Plant and Landscape Systems pathway is for you! In this pathway, laboratory and classroom activities are supplemented through supervised agricultural experiences and leadership activities.

PATHWAY COURSE & DESCRIPTIONS:

Course 1—Basic Agriculture Science - 02.47100

This course is designed as the foundational course for all Agriculture, Food & Natural Resources Pathways. The course presents introductory skills and knowledge in agricultural science and agri-related technologies. The course covers: • Plant and Animal Basics • Environment and Natural Resources • Land Management • Mechanical Agriculture Operations • Opportunities to Compete

Course 2—General Horticulture and Plant Science - 01.46100

This course introduces the major concepts of plant and horticulture science. The course covers: • Greenhouse use • Classifying Plants and Trees • Lawn and Garden Equipment • Floral Designing • Gardening for Healthy Living • Soil Science. ***This course counts toward satisfying the fourth science requirement and a CTAE pathway completion requirement.***

Course 3—Nursery and Landscape - 01.47000

This course is designed to provides the basic skills and knowledge utilized by the green industry in nursery production and management and landscape design and management. The course covers: • Development of Landscaping Expertise • Use of Commercial Landscaping Equipment • Focus on Environmental Concerns • Leadership Development

Check out these Georgia schools that offer majors related to the Agriculture Industry...

Abraham Baldwin Agricultural College
Fort Valley State University
Gwinnett Technical College
Lanier Technical College, University of Georgia
North Georgia Technical College
University of North Georgia

HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Agriculture Careers	Annual Wages
• Soil & Plant Scientist	\$68,100
• Environmental Specialist	\$51,000
• Agriculture Education Teacher	\$42,000
• Landscape Architect	\$62,400
• Plant Nursery Manager	\$69,000
• Floral Designer	\$25,500
• Farm Manager	\$69,000
• Surveyor	\$49,500

Source: U.S. Department of Labor



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VETERINARY SCIENCE

Agricultural education is the teaching of agriculture, natural resources, and land management through hands on experience and guidance to prepare students for entry level jobs or to further education to prepare them for advanced agricultural jobs.

PATHWAY COURSE & DESCRIPTIONS:

Course 1—Basic Agriculture Science - 02.47100

This 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. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

- Livestock Breed Identification • Soil Formation and Management • Wildlife Identification • Animal Growth and Production
- Leadership Skills

Course 2—Animal Science & Biotechnology - 02.42100

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. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

- Breeding of Agricultural Animals • Processing and Distribution of Animal Products • Livestock Nutrition • Economics of Livestock Industry. **This course counts toward satisfying the fourth science requirement and a CTAE pathway completion requirement.**

Course 3—Veterinary Science - 02.42400

This course covers the basics of animal care. Students will investigate animal body systems and learn to look for signs of disease. Students will also learn various procedures and methods used in veterinary hospitals.

- Disease • Parasites • Feeding • Shelter • Grooming • Animal Nutrition

Check out these schools that offer majors related to the Agriculture Industry...

Abraham Baldwin Agricultural College
Fort Valley State
University of Georgia

HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Agriculture Careers	Annual Wages
• Veterinarian	\$79,280
• Veterinarian Teacher	\$27,380
• Animal Breeder	\$37,670
• Animal Trainer	\$25,550
• Zoologist	\$50,440
• Farm/Ranch Manager	\$71,180

Source: U.S. Department of Labor



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ARCHITECTURAL DRAWING & DESIGN

Drawing and design is the process of turning ideas of how things should be constructed into technical drawings. These drawings are based on sketches and calculations made by engineers, surveyors, architects and/or scientists. The drawings provide visual guidelines such as dimensions, materials to be used, and procedures to be followed to build everything from manufactured products such as spacecraft, automobiles, and industrial machinery to structures such as homes, office buildings, and oil and gas pipelines.

PATHWAY COURSE & DESCRIPTIONS:

Course 1—Introduction to Drafting and Design - 48.54100

Introduction to Drafting and Design is the foundational course for the Architectural Drafting and Design pathway. Emphasis is placed on safety, geometric construction, fundamentals of computer-aided drafting, and multi-view drawings. Students learn drafting techniques through the study of geometric construction at which time they are introduced to computer-aided drafting and design. The standards are aligned with the national standards of the American Design Drafting Association (ADDA).

Course 2—Architectural Drawing and Design I - 48.54500

Architectural Drawing and Design I introduces students to the basic terminology, concepts, and principles of architectural design. Emphasis is placed on house designs, floor plans, roof designs, elevations (interior and exterior), schedules, and foundations. The standards are aligned with the drafting and design standards in Georgia's technical colleges, thus helping students qualify for advanced placement to continue their education at the postsecondary level.

Course 3—Architectural Drawing and Design II - 48.54600

Architectural Drawing and Design II builds on the skills developed in Architectural Drawing and Design I. Emphasis is placed on the design process, site plans, electrical plans, plumbing plans, sections and details, project presentations, and a course portfolio. The standards are aligned with the drafting and design standards in Georgia's technical colleges, thus helping students qualify for advanced placement should they continue their education at the postsecondary level. Students who successfully complete this and other drafting courses should be prepared to take an End of Pathway Assessment.

Check out these schools that offer majors related to the Architecture and Construction Industry...

Atlanta Technical College
Georgia Piedmont Technical College
Lanier Technical College
North Georgia Technical College
Technical College System of Georgia

HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Architectural Drawing & Design Careers	Annual Wages
• Architect/Draftsman	\$51,640
• Architect	\$76,930
• Civil Engineer	\$83,540

Source: U.S. Department of Labor



SkillsUSA is the Career & Technical Student Organization for Construction. SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. SkillsUSA helps each student excel. Students can compete regionally, state and nationally in events such as: Carpentry, Masonry, Plumbing, Woodworking Display, and much more.

For More Information: Georgia SkillsUSA - www.skillsusageorgia.org; National SkillsUSA - www.skillsusa.org



CARPENTRY

Carpenters are one of the most versatile construction occupations, with workers usually doing a variety of tasks. For example, some carpenters insulate office buildings; others install drywall or kitchen cabinets in homes. Those who help construct large buildings or bridges often make the wooden concrete forms for cement footings or pillars. Some carpenters build braces and scaffolding for buildings. Carpenters construct and repair building frameworks and structures— such as stairways, doorframes, partitions, and rafters—made from wood and other materials.

PATHWAY COURSE & DESCRIPTIONS:

Course 1—Industry Fundamentals and Occupational Safety - 46.54500

This course is designed as the foundational course 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.

Course 2—Introduction to Construction - 46.54600

This course offers an opportunity for students to build on their knowledge and skills and introduces them to four construction craft areas. The goal of this course is to introduce students to the history and traditions of the carpentry, masonry, plumbing, and electrical craft trades. Students will explore how the various crafts have influenced and been influenced by history. The student will also learn and apply knowledge of the care and safe use of hand and power tools as related to each trade. In addition, students will be introduced to and develop skills to differentiate between blueprints related to each individual craft area.

Course 3—Carpentry 1 - 46.55000

This course provides the student with 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.

Check out these schools that offer majors related to the Architecture and Construction Industry...

- Atlanta Technical College
- Central Georgia Technical College
- Fort Valley State University
- Gwinnett Technical College
- North Georgia Technical College
- Truett-McConnell College
- University of North Georgia

HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Carpentry Jobs & Careers	Annual Wages
• Form Setter/Carpenter Assistant	\$28,810
• Construction Carpenters	\$43,600
• Brick Mason	\$49,250
• Plumbers	\$51,450
• Construction Managers	\$89,300

Source: U.S. Department of Labor



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For More Information: Georgia SkillsUSA - www.skillsusageorgia.org; National SkillsUSA - www.skillsusa.org



ELECTRICAL

Workers in the electrical pathway install and maintain electrical systems in homes, businesses, and factories. Electricians work indoors and out, in nearly every type of facility. Employment of electricians is projected to grow 23 percent from 2010 to 2020, faster than the average for all occupations. Homes and businesses require more wiring than ever before, and electricians will be needed to install the necessary components.

PATHWAY COURSE & DESCRIPTIONS:

Course 1— Industry Fundamentals and Occupational Safety - 46.54500

This course is designed as the foundational course 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.

Course 2— Introduction to Construction - 46.54600

This course offers an opportunity for students to build on their knowledge and skills and introduces them to four construction craft areas. The goal of this course is to introduce students to the history and traditions of the carpentry, masonry, plumbing, and electrical craft trades. Students will explore how the various crafts have influenced and been influenced by history. The student will also learn and apply knowledge of the care and safe use of hand and power tools as related to each trade. In addition, students will be introduced to and develop skills to differentiate between blueprints related to each individual craft area.

Course 3— Electrical 1 - 46.56000

This course provides the student with a solid foundation in electrical skills and knowledge. As the third step in gaining a Level One Industry Certification in Electrical, the course builds on the concepts of electrical safety introduced in Occupational Safety and provides knowledge and basic skills of the hardware and systems used by an electrician. The course incorporates general knowledge of the National Electrical Code and electrical systems, including series, parallel, and series parallel circuits. In addition, students will be provided an introduction to the skills and knowledge of conduit bending and installation.

Check out these schools that offer majors related to the Architecture and Construction Industry...

- Athens Technical College
- Bainbridge State College
- Fortis College-Smyrna
- Georgia Piedmont Technical College
- Gwinnett Technical College
- Lanier Technical College
- North Georgia Technical College

- #### Apprenticeship
- MetroPower
 - Atlanta Electrical Contractors Association

HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Electrical Jobs & Careers	Annual Wages
• Telecommunications Line Installers & Repairers	\$52,590
• Electricians	\$52,720
• Electrical Power-Line Installers and Repairers	\$68,010
• Elevator Installers and Repairers	\$78,890

Source: U.S. Department of Labor



SkillsUSA is the Career & Technical Student Organization for Construction. SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. SkillsUSA helps each student excel. Students can compete regionally, state and nationally in events such as: Carpentry, Masonry, Plumbing, Woodworking Display, and much more.

For More Information: Georgia SkillsUSA - www.skillsusageorgia.org; National SkillsUSA - www.skillsusa.org



BASIC SHIELDED METAL ARC WELDER

CURRICULUM

Program-Specific Core – Total of 12 Hours

WELD 1000 *Intro to Welding Technology* (4)

WELD 1010 *Oxyfuel Cutting* (4)

WELD 1040 *Flat Shielded Metal Arc Weld* (4)

Total: 12 Hours

Graduation requirement includes completion of a total of 12 hours in the above areas

PROGRAM DESCRIPTION

The Basic Shielded Metal Arc Welder technical certificate of credit prepares students for careers in the welding and joining industry. This certificate emphasizes arc welding in the flat position and is pre-requisite to the advanced certificate.

PROGRAM SPECIFIC INFORMATION

Students are accepted each semester based on space and course availability.

PROGRAM LENGTH & AVAILABILITY

1 Semester

Campus Availability: Barrow, Dawson, Hall

ADMISSIONS REQUIREMENTS

- Must be 16 years of age.
- High school diploma or GED is required prior to admission.
(Official transcripts or GED scores must be submitted from all colleges and/or high schools attended for credit.)
- ACCUPLACER Testing, or submit SAT, ACT, COMPASS, or ASSET test scores.

FINANCIAL AID

This program is not eligible for the Pell Grant, but may be eligible for Institutional and State Financial Aid. Contact a Financial Aid Counselor for eligibility requirements and application materials.

CERTIFICATE PROGRAM

FS31



AUDIO-VIDEO TECHNOLOGY AND FILM

Do you know how many movies and television shows were filmed within a 50 mile radius of Barrow County? You would be surprised. Georgia has become one of the go to places for the television and film industry in the Southeast US. There are more and more businesses opening that require people with skills that can be learned in this class. This includes television, film and even radio. Students can find which area they like best, whether that is in front or behind the camera, editing, or behind a microphone. Students will learn everything from the idea in brainstorming to watching your finished DVD. The Audio/Video Technology and Film pathway is your passport to the exciting and growing film and broadcast industry in Georgia!

PATHWAY COURSE & DESCRIPTIONS:

Course 1—Audio & Video Technology & Film I - 10.51810

The first class in the AVTF Pathway is the foundation course. This course provides the basic knowledge you need for learning how to operate the camera and the steps in creating a work of media. You will cover: Industry terminology • Safety • Basic Equipment • Camera Composition • Script Writing Directing • Production Process • Professional Ethics • Copyright

Course 2—Audio & Video Technology & Film II - 10.51910

The second class in the AVTF Pathway is the building course. In this course you will learn how a studio operates and advanced techniques in creating a more professional looking work. You will cover: Lighting • Production Graphics • Advanced Recording & Editing • Studio Operation • Career Opportunities • Professional Ethics • Copyright

Course 3—Audio & Video Technology & Film III - 10.52010

The last class in the pathway is geared toward 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: Career Opportunities • Professional Ethics • Copyright

Check out these Georgia schools that offer majors related to the Broadcast & Film Industry...

Chattahoochee Technical College
 Georgia State University
 Digital Arts and Entertainment Lab
 Grady College
 Savannah School of Art & Design
 University of Georgia

HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Audio-Video Jobs & Careers	Annual Wages
• Film Producer	\$76,523
• Film Editor	\$49,560
• Production Designer	\$49,275
• Graphic Designer	\$49,899
• Script Writer (Technical)	\$68,390
• Camera Operator	\$50,648
• Sound Engineer	\$45,635
• Announcer (TV & Radio)	\$44,574
• Technician (Audio & Video)	\$42,931

Source: U.S. Department of Labor



SkillsUSA is the Career & Technical Student Organization for Audio/Video Technology & Film. SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. SkillsUSA helps each student excel. Students can compete regionally, state and nationally in such events as Digital Cinema, TV Video Production, Broadcast News, Business & Industry Video, Chapter Recruitment Commercial, and much more. For More Information: Georgia SkillsUSA - www.skillsusa.org; National SkillsUSA - www.skillsusa.org



GRAPHIC COMMUNICATION

Graphic Communication is the process of communicating visually using typography and/or images to convey information. Graphic Design embraces a range of cognitive skills, create problem solving skills, aesthetics, and crafts, including typography, visual arts, illustration, photography, and page layout.

PATHWAY COURSE & DESCRIPTIONS:

Course 1—Introduction to Graphics & Design - 48.56100

This is the foundational course for the Graphics Design pathway. It teaches students the processes involved in the technologies of printing, publishing, packaging, and electronic imaging. Students will also demonstrate using typography, visual arts, and page layout. You will explore: Employability Skills, Careers, Computer Software, Aesthetics, Imaging, Layout and Design, and Varying Print Processes.

Course 2—Graphics Design & Production - 48.56200

This course focuses on the procedures commonly used in the graphic communication and design industries. Students will gain experience in creative problem-solving and the practical implementation of those solutions across multiple areas of graphic communications. You will explore: Color, Elements and Principles, Output processes, Field experience, Typography, File Management, Equipment Operation, Finishing Methods, and Customer Service and Sales Principles

Course 3—Advanced Graphic Output Processes - 48.57000

The final course in the pathway, students will gain advanced levels of experience to complete the output processes of various projects. Students will be able to manage the entire completion process from customer service to printing to finishing. Knowledge and skills in design and printing will be enhanced through experiences that simulate the graphic communications industry and school-based and work-based learning opportunities. You will explore: Project Production, Developing a Portfolio, Layout and Design, Employability Skills, Production Costs, Output Devices.

Check out these Georgia schools that offer majors related to Graphic Communication...

Art Institute of Atlanta
Emory University
Georgia Institute of Technology
Lanier Technical College,
Savannah College of Art and Design (SCAD)
University of Georgia

HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Jobs & Careers	Annual Wages
• Binding and Finishing	\$29,500
• Commercial and Industrial Designer	\$55,660
• Graphic Designer	\$47,130
• Magazine Editor	\$55,718
• Photographer	\$28,490
• Pre-Press Operator	\$37,200
• Press Operator (Digital and Ink)	\$35,100

Source: U.S. Department of Labor



SkillsUSA is the Career & Technical Student Organization for the Graphics Industry. SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. SkillsUSA helps each student excel. Students can compete regionally, state and nationally in such events as Graphic Communication (Press Work), Graphic Design (Pre-Press) Dye Sublimation, Screen Printing, and many more print and leadership competitions. For More Information: Georgia SkillsUSA - www.skillsusageorgia.org; National SkillsUSA - www.skillsusa.org



GRAPHIC DESIGN

Graphic designers—or graphic artists—plan, analyze, and create visual solutions to communications problems. They find the most effective way to get messages across in print, electronic, and film media using a variety of methods such as color, type, illustration, photography, animation, and various print and layout techniques. An increasing number of graphic designers also develop material for Internet Web pages, interactive media, and multimedia projects.

PATHWAY COURSE & DESCRIPTIONS:

Course 1—Introduction to Graphics & Design - 48.56100

This is the foundational course for the Graphics Design pathway. It teaches students the processes involved in the technologies of printing, publishing, packaging, and electronic imaging. Students will also demonstrate using typography, visual arts, and page layout. You will explore: Employability Skills, Careers, Computer Software, Aesthetics, Imaging, Layout and Design, and Varying Print Processes.

Course 2—Graphics Design & Production - 48.56200

This course focuses on the procedures commonly used in the graphic communication and design industries. Students will gain experience in creative problem-solving and the practical implementation of those solutions across multiple areas of graphic communications. You will explore: Color, Elements and Principles, Output processes, Field experience, Typography, File Management, Equipment Operation, Finishing Methods, and Customer Service and Sales Principles

Course 3—Advanced Graphic Design - 48.52800

Students will continue to explore in an increasingly independent manner, the principles of design and layout procedures relating to the field of graphic design. Content will cover electronic systems and software programs used in graphic design, page composition, image conversion, and digital printing. Knowledge and skills in digital design and imaging will be enhanced through experiences that simulate the graphic design industry and school-based and work-based learning opportunities.

Check out these Georgia schools that offer majors related to Graphic Design...

Art Institute of Atlanta
Atlanta Technical College
Chattahoochee Technical College
Emmanuel College
Fort Valley State University
Gwinnett Technical College
Lanier Technical College
Savannah College of Art and Design

HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Graphic Design Jobs & Careers	Annual Wages
• Graphic Designers	\$47,640
• Web Developer/Webmaster	\$66,130
• E-commerce Marketing Manager	\$86,510

Source: U.S. Department of Labor



SkillsUSA is the Career & Technical Student Organization for Audio/Video Technology & Film. SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. SkillsUSA helps each student excel. Students can compete regionally, state and nationally in such events as Digital Cinema, TV Video Production, Broadcast News, Business & Industry Video, Chapter Recruitment Commercial, and much more. For More Information: Georgia SkillsUSA - www.skillsusageorgia.org; National SkillsUSA - www.skillsusa.org



BUSINESS AND TECHNOLOGY

The administrative support services industry is one of the largest job providers in the U.S. economy. Typical responsibilities of workers in this field include performing and coordinating office activities in an efficient manner. For example - planning and scheduling meetings, managing projects, and conducting research. Support services staff also store, retrieve, and integrate information in a variety of ways to distribute throughout the organization and among its clients.

PATHWAY COURSE & DESCRIPTIONS:

Course 1—Introduction to Business and Technology - 07.44130

This course is designed for high school students to understand, communicate, and adapt to a digital world as it impacts their personal life, society, and the business world. You will cover: Hardware • Software • Communications • Risk Management • Leadership Marketing • Entrepreneurship • Management • Accounting

Students have the opportunity to earn MOS Word Certification

Course 2—Business & Technology - 07.44100

This project-based course incorporates advanced functions of Microsoft Office along with advanced business skills. Students will learn to use problem-solving skills, effectively and efficiently utilizing technology, and meet workplace demands. You will cover: Professionalism • Teamwork and Problem Solving Skills • Software Integration

Students have the opportunity to earn MOS Excel and Access Certification

Course 3—Business Communications - 07.45100

This course will provide students with an understanding of communication skills and the use of technology to enhance presentations. The ability to communicate professionally is critical for both personal and career success. You will cover: Multimedia Production • Presentation Software • Emerging Technologies • Interpersonal Skills • Social Media

Students have the opportunity to earn MOS PowerPoint Certification

Check out these Georgia schools that offer majors related to Business and Technology...

- Athens Technical College
- Georgia College & State University
- Georgia Gwinnett College
- Gwinnett Technical College
- Lanier Technical College
- University of North Georgia

HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Business Careers	Annual Wages
• Legal Secretary	\$45,170
• Desktop Publisher	\$38,800
• Insurance Clerk	\$37,060
• Human Resource Specialist	\$55,580
• Meeting/Event Planner	\$46,340
• Office Supervisor	\$51,730
• Executive Administrative Assistant	\$47,400
• Administrative Services Manager	\$88,540

Source: U.S. Department of Labor



Future Business Leaders of America (FBLA) is an organization for business students in middle and high school. FBLA gives students opportunities to develop leadership and career skills while preparing for careers in business and business related fields. Through its various projects and competitive events, FBLA provides leadership development training for its members to become successful leaders in schools, communities, and future careers. For More Information: Georgia FBLA - www.gafbla.org; National FBLA-PBL - www.fbla-pbl.org



Classes Available at Lanier Technical College
Barrow, Forsyth, Hall Campuses & Online
www.laniertech.edu



EARLY CHILDHOOD CARE & EDUCATION

CURRICULUM

Program-Specific Core – Total of 9 Hours

- ECCE 1101 *Intro to Early Childhood Care (3)*
- ECCE 1103 *Child Growth & Development (3)*
- ECCE 1105 *Health Safety & Nutrition (3)*

PROGRAM DESCRIPTION

The Early Childhood Care and Education Basics technical certificate of credit includes three basic Early Childhood and Care Education courses that are needed for entry level workers. The program provides an introductory course to the ECCE field, a child growth and development course, and a health, safety, and nutrition course. Graduates have qualifications to be employed in early care and education settings including child care centers, Head Start, and Georgia Pre-K programs. Bright from the Start (BFTS), the regulatory agency in Georgia, requires the basic knowledge included in this certificate for a person to be a lead teacher in a child care center or family day care center.

PROGRAM SPECIFIC INFORMATION

Students are accepted every semester based on course and space availability. Students must complete ALL COURSES with a grade of C or higher in order to graduate.

INDUSTRY CERTIFICATION PREPARATION

This certificate meets the Bright from the Start/Day Care licensing teaching credential requirements.

ADDITIONAL REQUIREMENTS

The State of Georgia has a law regarding the placement of persons with criminal records in childcare facilities. Anyone who has been convicted of a felony offense, neglecting or abusing a dependent person, a sexual offense, or any other "covered crime" will not be allowed to work in a childcare facility. If you are affected by this law, or think you may be, discuss your situation immediately with your advisor. Because your employment options may be severely limited in the early childhood profession, a person who has received an unsatisfactory criminal records check is discouraged from pursuing this program of study and may need to reconsider their chosen field of study. Prior to beginning clinical/internship courses, students must order and pay for a background check and meet background check screening requirements as required by the clinical facility. Cost is approximately \$50.

PROGRAM LENGTH & AVAILABILITY

1 Semester
Campus Availability: Barrow, Forsyth, Hall, Online

ADMISSIONS REQUIREMENTS

- Must be 16 years of age.
- High school diploma or GED is required prior to admission. (Official transcripts or GED scores must be submitted from all colleges and/or high schools attended for credit.)
- ACCUPLACER Testing, or submit SAT, ACT, COMPASS, or ASSET test scores.

FINANCIAL AID

This program is eligible for the Pell Grant and may be eligible for Institutional and State Financial Aid. Contact a Financial Aid Counselor for eligibility requirements and application materials.



TEACHING AS A PROFESSION

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.

PATHWAY COURSE & DESCRIPTIONS:

Course 1—Examining the Teaching Profession - 13.01100

The Examining the Teaching Profession prepares students for future positions in the field of education. 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.

Course 2— Contemporary Issues in Education - 13.01200

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.

Course 3— Teaching as a Profession Practicum - 13.01300

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.

Check out these Georgia schools that offer majors related to Education...

Berry College
 Georgia College and State University
 Gwinnett Technical College
 Lanier Technical College
 Mercer University
 North Georgia Technical College
 Piedmont College
 University of North Georgia

HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Teaching Jobs and Careers	Annual Wages
• Teacher Assistant	\$25,410
• School Teacher	\$55,800
• Special Education Teacher	\$57,040
• Education Administrator	\$92,510

Source: U.S. Department of Labor



What is FCCLA? Family, Career, & Community Leaders of America (FCCLA) is the student organization which accompanies the Family and Consumer Science courses. FCCLA is a community service-oriented organization that builds leadership qualities, promotes teamwork, and encourages family values. FCCLA also provides students with the opportunity to compete at the regional, state, and national level for scholarships and cash prizes. For More Information: Georgia FCCLA - www.gafccla.com; National FCCLA - www.fcclainc.org



JROTC

Have you ever wondered how the military operates? Do you want to discover the leader in you? Do you enjoy working as part of a team and being physically and mentally challenged? Then the Junior Reserve Officer Training Corps (JROTC) pathway may be for you! Each level of JROTC offers a rigorous fitness program, drill and ceremony training, and community service in addition to the lessons listed below.

PATHWAY COURSE & DESCRIPTIONS:

LET 1: Introduction to Leadership, Character Development, Basic Life Skills, and Citizenship - 28.03100

The first class in the pathway is the basic course. It provides Cadets with entry level knowledge regarding US Army customs and traditions. You will cover: Moving up in JROTC, Roles of Leaders and Followers, Rights and Responsibilities of American Citizens, Principles of Leadership, Personal Appearance and Uniform Standards.

LET 2: Intermediate Leadership and Character Development Traits, Life Skills, Geography, and Government - 28.03200

The second class in the JROTC pathway is the intermediate course. In this course you will learn how to be a better citizen and study how the US Army fits into our government and nation. You will cover: Cultural and Individual Diversity, Motivation, Making right choices, Styles of Leadership, the US Constitution, First aid, and the effects of Drug and Alcohol use.

LET 3: Advanced Leadership, Principles of Management, Advanced Life Skills, and Orienteering - 28.03300

The last class in the pathway is geared toward advanced leadership. Cadets will lead classmates in planning, organizing, and executing various projects and programs. You will cover: The Department of Defense, Career Exploration, Goals Setting, Decision Making and Problem Solving.

Check out some of these colleges and universities that offer opportunities for advancement in the military...

University of Georgia
 Georgia Institute of Technology
 Military College of Georgia
 University of North Georgia
 Georgia Southern University

HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Jobs and Careers	Annual Wages
• Officer (Entry)	\$48,000
• Soldier (Enlisted w/JROTC)	\$22,035
• Soldier (Enlisted w/o JROTC)	\$19,659



Enrollment in JROTC allows you to participate in the following extracurricular activities: **Raider Team** – This team competes in events ranging from 3 mile team runs, cross country rescue challenges, obstacle courses and a one rope bridge course. This fall sport is comprised of our most dedicated and physically fit individuals. **Color Guard** – This year-round element is the most widely utilized battalion team. Aside from competitions and sporting events, they are requested to present our Nations Colors at almost all city and county functions. **Academic Bowl Teams** – These teams compete in online testing in Math, Science, English, Social Studies and JROTC curriculums against 1300 other teams around the nation. **Rifle Team** – This GHSA sport competes in area and state meets using precision air rifles in the standing, kneeling and prone positions. Our team members are disciplined and mentally focused throughout this winter sport season.



ALLIED HEALTH AND MEDICINE

Experts predict Georgia will add more healthcare jobs than any other state (except Utah) between now and 2020. Healthcare will lead all other industries and account for one-fourth of all new jobs created by 2020, according to the Georgia Department of Labor. It is projected to grow by 120,000 jobs and employ nearly 540,000 workers overall. Nationally, close to 6 million new jobs will be created in the same period. If you are interested in medicine, disease research, or helping people recover from illness or injury, a career in Healthcare Science may be ideal for you.

PATHWAY COURSES & DESCRIPTIONS:

Course 1—Introduction to Healthcare Science - 25.52100

The first class is the foundation course for the Allied Health and Medicine Pathway. This course enables students to receive initial exposure to the many Healthcare Science careers as well as employability, communication, and technology skills necessary in the healthcare industry. You will learn: Infection Control, Safety, Medical Terminology, Legal Responsibilities, CPR/First Aid, Human Growth and Development.

Course 2—Essentials of Healthcare - 25.44000

The second class in the Allied Health and Medicine Pathway is primarily anatomy and physiology. Students learn how the body works and diseases and disorders associated with body systems. You will learn: Vital Signs, First Aid, Sterile Technique, and Application of Medical Terminology. **Students who earn 1 unit credit for this course shall also receive 1 unit of science credit for Human Anatomy and Physiology. Students will receive the same grade for both courses.**

Course 3—Allied Health and Medicine - 25.43700

The course is designed to offer students the opportunity to become effective and efficient multi-skilled healthcare providers as they develop a working knowledge of the different areas of healthcare. In addition, you will learn: Professionalism, Communication Skills, and Teamwork and Problem Solving Skills.

Check out these Georgia schools that offer majors related to the Health Science Industry...

Armstrong Atlantic State University
 Brenau University
 Georgia Regents University
 Georgia Southern University
 Georgia State University
 Kennesaw State University
 Lanier Technical College
 Mercer University
 University of Georgia
 University of North Georgia
 Valdosta State University

HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Allied Health Careers	Annual Wages
• Clinical Lab Scientist	\$57,930
• Dental Hygienist	\$67,610
• Dietician	\$51,771
• Doctor of Medicine	\$226,948
• Pharmacist	\$121,243
• Physical Therapist	\$85,740
• Physician Assistant	\$102,024
• Radiologic Technologist	\$54,400
• Registered Nurse	\$66,110
• Respiratory Therapist	\$55,960

Source: U.S. Department of Labor



HOSA-Future Health Professional is the Career & Technical Student Organization for students interested in healthcare. The mission of HOSA is to enhance the delivery of compassionate, quality healthcare by providing opportunities for knowledge, skill and leadership development of all health science technology education students, therefore, helping students to meet the needs of the healthcare community.
 For More Information: Georgia HOSA www.georgiahosa.org; National HOSA www.hosa.org



BIOTECHNOLOGY

Experts predict Georgia will add more healthcare jobs than any other state (except Utah) between now and 2020. Healthcare will lead all other industries and account for one-fourth of all new jobs created by 2020, according to the Georgia Department of Labor. It is projected to grow by 120,000 jobs and employ nearly 540,000 workers overall. Nationally, close to 6 million new jobs will be created in the same period. If you are interested in medicine, disease research, or helping people recover from illness or injury, a career in Healthcare Science may be ideal for you.

PATHWAY COURSES & DESCRIPTIONS:

Course 1—Introduction to Healthcare Science - 25.52100

The first class is the foundation course for the Biotechnology Research and Development Pathway. This course enables students to receive initial exposure to the many Healthcare Science careers as well as employability, communication, and technology skills necessary in the healthcare industry. You will learn: Infection Control, Safety, Medical Terminology, CPR, and Growth and Development.

Course 2—Essentials of Biotechnology - 25.57000

This lab based course exposes students to the careers, ethics, and regulations in the growing, multi-faceted biotech industry through development and application of the laboratory and research skills required to be employable. You will learn: Safety Regulations, Industry Uses, Laboratory Techniques, and Policy Issues. **This course counts toward satisfying the fourth science requirement and a CTAE pathway completion requirement.**

Course 3—Applications of Biotechnology - 25.56900

This heavily lab- based course teaches more technical and advanced yet common laboratory skills that are seen in medical, agricultural, forensic, and pharmaceutical labs while also dealing with the applications to modern life in a safe, effective, ethical manner. You will learn: Data Analysis, Advanced Lab Techniques, and Current Issues and Trends. **This course counts toward satisfying the fourth science requirement and a CTAE pathway completion requirement.**

Check out these Georgia schools that offer majors related to the Health Science Industry...

Fort Valley State University
 Georgia State University
 Gwinnett Technical College
 Kennesaw State University
 Lanier Technical College
 University of Georgia

HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Biotechnology Careers	Annual Wages
Biological Technicians	\$39,750
Clinical Research Associate	\$47,820
Chemical Technician	\$42,920
Microbiologist	\$66,260
Environmental Specialist	\$63,570

Source: U.S. Department of Labor



HOSA-Future Health Professional is the Career & Technical Student Organization for students interested in healthcare. The mission of HOSA is to enhance the delivery of compassionate, quality healthcare by providing opportunities for knowledge, skill and leadership development of all health science technology education students, therefore, helping students to meet the needs of the healthcare community.
 For More Information: Georgia HOSA www.georgiahosa.org; National HOSA www.hosa.org



CERTIFIED NURSES AID

CURRICULUM

Program-Specific Core – Total of 10 Hours

- ALHS 1090 *Medical Terminology* (2)*
- ALHS 1113 *Introduction to Health Professionals* (2)*
- NAST 1100 *Nurse Aid Fundamentals* (6)*

Total: 10 Hours

* A minimum grade of C is required in all courses for this program.

PROGRAM DESCRIPTION

The main role of a Nurse Aide is to provide basic care to patients and assist them in daily activities that they might have trouble with on their own. This can include bathing, feeding, or other activities in daily life. The ideal Nurse Aide is compassionate and enjoys helping others. In nursing or long-term care facilities, an Aide is often a patient's main caregiver. An Aide should have good communication skills as it's their job to bring all patient concerns and issues to their supervisor. Nurse Aides may also work with medical technology, including billing software, health information software, and/or medical record charting software. On the job, Nurse Aides report to either registered nurses or licensed practical nurses or licensed vocational nurses.

PROGRAM SPECIFIC INFORMATION

Students are accepted each semester based on space and course availability. Students must complete ALL COURSES with a grade of C or higher in order to graduate. NNAAP test must be taken within one year of program completion. Please be advised that though a student may complete Nurse Aide coursework while under the age of 18, many employers require individuals to be at least 18 for employment.

PROGRAM LENGTH & AVAILABILITY

1 Semester
Campus Availability: Barrow, Dawson, Forsyth, Hall, Jackson

ADMISSIONS REQUIREMENTS

- Must be 16 years of age.
- ACCUPLACER Testing, or submit SAT, ACT, COMPASS, or ASSET test scores.

FINANCIAL AID

This program is not eligible for the Pell Grant, but may be eligible for Institutional and State Financial Aid. Contact a Financial Aid Counselor for eligibility requirements and application materials.

CERTIFICATE PROGRAM NA31



CULINARY ARTS

Check out Culinary Arts! In this pathway you can take your creativity to the next level where you will learn many of the skills for the culinary profession. You will learn state-of-the-art techniques in a fully equipped lab with all of the tools and equipment found in a modern commercial kitchen and bakery. You will also gain real world experiences with the opportunity to cater events at local venues!

PATHWAY COURSES & DESCRIPTIONS:

Course 1—Introduction to Culinary Arts - 20.53100

This course combines professional culinary training, career exploration in the food service industry and food preparation skills. Chefs from the local food industry assist with class-room instruction. Students are trained by an ACF Chef. You will cover: Safety & Sanitation • Organization Skills • Knife Techniques • Commercial Equipment • Soups • Glazes • Egg Cookery • Quick Breads • Yeast Breads • Nutrition

Course 2—Culinary Arts I - 20.53210

Students will be introduced to some of the fundamentals of French cooking and the advanced techniques needed to master the skill of Culinary Arts. Juniors and Seniors are eligible to participate in regional, state, and national competitions You will cover: Fabrication • Meat • Dairy Products • ServSafe® Certification • Soups • Stocks • Breakfast Items

Course 3—Culinary Arts II - 20.53310

This is a rigorous, in-depth course designed for students who wish to continue their education at the post-secondary level or enter the foodservice industry. Students will operate a full-service restaurant while applying the skills gained from Intro. to Culinary Arts and Culinary Arts I. You will cover: Restaurant Operations • Cater Events • Managerial, Production, and Service Skills • Careers • Tarts • Pastas • Seafood • Poultry • International Foods • Regional Foods

Check out these Georgia schools that offer majors related to the Culinary Arts and Foodservice Industry...

- Art Institute of Atlanta
- Athens Technical College
- Lanier Technical College
- Le Cordon Bleu College of Culinary Arts in Tucker
- North Georgia Technical College
- Savannah Technical College

HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Culinary Arts Jobs & Careers	Annual Wages
• Food Scientist/Technologist	\$55,689
• Dietician /Nutritionist	\$53,250
• Food Writer	\$49,000
• Food Services Manager	\$48,130
• Health Educator	\$45,830
• Catering Manager	\$43,128
• Food Stylist	\$40,890
• Chefs and Head Cooks	\$40,630

Source: U.S. Department of Labor



What is FCCLA? Family , Career, & Community Leaders of America (FCCLA) is the student organization which accompanies the Family and Consumer Science courses. FCCLA is a community service-oriented organization that builds leadership qualities, promotes teamwork, and encourages family values. FCCLA also provides students with the opportunity to compete at the regional, state, and national level for scholarships and cash prizes. For More Information: Georgia FCCLA - www.gafccla.com; National FCCLA - www.fcclainc.org



HOSPITALITY, RECREATION AND TOURISM

Tourism is big business in Georgia, really big!

The Tourism industry in Georgia is the 5th largest employer in the state with a total economic impact of \$51.2 billion, supporting more than 400,000 jobs, or 10.2% of all payroll employment in Georgia.

PATHWAY COURSES & DESCRIPTIONS:

Course 1—Marketing Principles - 08.47400

Marketing Principles is the foundation course for all marketing pathways. This course is full of classroom activities and hands-on projects that help you to understand how marketing impacts our everyday lives. You will learn to create and improve products, learn sales techniques, promote yourself, and build your brand.

Course 2—Hospitality, Recreation, & Tourism Essentials - 08.45300

The second course in this pathway will educate about trendy vacation destinations and how to choose the best lodging for business and leisure travelers. This course will examine the income opportunities associated with conventions, tradeshows, and entertainment events. Students will explore the lucrative career opportunities in the lodging, food, recreation, and transportation industries.

Course 3—Hospitality, Recreation, & Tourism Management - 08.45400

For this capstone course, an emphasis will be placed on the legal environment, human resources, diversity, and ethics from a management perspective. Strategies for growing and maintaining a profitable organization are the cornerstones of this course offering.

Check out these Georgia schools that offer majors related to the Hospitality Industry...

Georgia State University
Gwinnett Technical College
Kennesaw State University
University of Georgia

HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

HRT Jobs and Careers	Annual Wages
• Marketing Manager	\$118,000
• Promotion Manager	\$93,000
• Lodging Manager	\$55,000
• Food Services Manager	\$60,000
• Catering Manager	\$56,000
• Distribution Manager	\$80,000
• Meeting Planner	\$43,000
• Head Chef	\$42,000
• Travel Agent	\$35,000



DECA is the career and technical student organization for all marketing pathways. DECA prepares emerging leaders and entrepreneurs in marketing, finance, hospitality, and management in high schools and colleges around the globe.

For More Information: Georgia DECA - www.georgiadeca.org
National DECA - www.deca.org



NUTRITION AND FOOD SCIENCE

In the Food and Nutrition pathway you will have opportunities to learn knowledge and skills on food choices for optimal health for a lifetime. Science is integrated in this pathway creating the potential for the final two courses to earn a fourth science credit. This pathway culminates with an opportunity for students to take the National Restaurant Association's end of pathway assessment and to potentially earn a ServSafe certificate.

PATHWAY COURSES & DESCRIPTIONS:

Course 1—Food, Nutrition, and Wellness - 20.41610

The first class in the Food & Nutrition Pathway is the foundation course. This course provides the basic knowledge you need for learning how Food, Nutrition and Wellness is an essential course in understanding nutritional needs and food choices for optimal health of individuals across the lifespan.

Course 2—Food for Life - 20.41400

The second class in the Food & Nutrition Pathway is an advanced course in food and nutrition that addresses the variation in nutritional needs at specific stages of the human life cycle: prenatal, infancy, childhood, adolescence, and adulthood including old age. 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 counts toward satisfying the fourth science requirement and a CTAE pathway completion requirement.**

Course 3—Food Science - 20.41810

The last class in the pathway and can count as a science credit. Food science integrates many branches of science and relies on the application of the rapid advances in technology to expand and improve the food supply. Students will evaluate the effects of processing, preparation, and storage on the quality, safety, wholesomeness, and nutritive value of foods. **This course counts toward satisfying the fourth science requirement and a CTAE pathway completion requirement.**

Check out these Georgia schools that offer majors related to the Food and Nutrition Industry...

Georgia Southern University
University of Georgia
Valdosta State University

HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Food & Nutrition Jobs & Careers	Annual Wages
• Registered Dietician	\$76,000
• Wellness Coach	\$36,000
• Public Health Administrator	\$63,000
• Nutrition Education	\$40,000
• Food Administrator	\$63,000
• Food and Nutrition Scientist	\$75,000



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COMPUTER SCIENCE

Computer Science allows students to develop problem solving and programming skills. This pathway concludes with an Advanced Placement (AP) course that will give students the opportunity to earn college credit. Through this pathway, students will learn to design and implement computer programs that solve problems that are relevant in today's world.

PATHWAY COURSES & DESCRIPTIONS:

Course 1—Introduction to Digital Technology - 11.41500

The foundation course, Introduction to Digital Technology, is designed for high school students to understand, communicate, and adapt to a digital world as it impacts their personal life, society and the business world. You will explore: Hardware • Software • Internet Basics • Web Design • Basic Troubleshooting • Networking Trends

Course 2—Computer Science Principles - 11.45100

The major goal of this course is for students to develop the computer science skills of algorithm development, problem solving, and programming. While the emphasis of the course will be on programming, students will also be introduced to other important topics, such as careers, the limits of computing and the difference between interpreters and compilers. *This course counts toward satisfying the fourth science requirement and a CTAE pathway completion requirement.*

Course 3—AP Computer Science - 11.45200

Students will have the opportunity to earn college credit through this Advanced Placement course. This course will teach students to use the core aspects of computer science to create solutions that are understandable and adaptable. Students will study the development and analysis of algorithms and data structures using various methods.

Check out these Georgia schools that offer majors related to the Information Technology Industry...

- Georgia Institute of Technology
- Georgia Southern University
- Savannah College of Art and Design
- Southern Polytechnic State

HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Computer Science Jobs & Careers	Annual Wages
• Animators	\$45,000
• Sound Designers	\$71,000
• Game Designers	\$83,000
• Game Programmers	\$85,000
• Game Producers	\$59,000
• Game Executive Producers	\$75,000
• Game Testers	\$38,000
• Computer Programmers	\$71,380
• Computer Systems Analyst	\$77,740

Source: U.S. Department of Labor



Future Business Leaders of America (FBLA) is an organization for business students in middle and high school. FBLA gives students opportunities to develop leadership and career skills while preparing for careers in business and business related fields. Through its various projects and competitive events, FBLA provides leadership development training for its members to become successful leaders in schools, communities and future careers. For More Information: Georgia FBLA - www.gafbla.org; National FBLA-PBL - www.fbla-pbl.org



PROGRAMMING, APPS AND GAME DESIGN

Game design starts with an idea that is often the modification of an existing concept. The designer usually produces an initial game proposal document containing the concept, gameplay, feature list, setting and story, target audience, requirements and schedule, staff and budget estimate. These and many other programming concepts will be introduced throughout this pathway. Just think, the next Xbox, PS, or App may be originally developed in one of our labs.

PATHWAY COURSES & DESCRIPTIONS:

Course 1—Introduction to Digital Technology - 11.41500

The foundation course, Introduction to Digital Technology, is designed for high school students to understand, communicate, and adapt to a digital world as it impacts their personal life, society and the business world. You will explore: Hardware • Software • Internet Basics • Web Design • Basic Troubleshooting • Networking Trends

Course 2—Computer Science Principles - 11.47100

The major goal of this course is for students to develop the computer science skills of algorithm development, problem solving, and programming. While the emphasis of the course will be on programming, students will also be introduced to other important topics, such as careers, the limits of computing and the difference between interpreters and compilers. *This course counts toward satisfying the fourth science requirement and a CTAE pathway completion requirement.*

Course 3—Programming, Apps, & Game Design - 11.47200

Students will learn key concepts of software engineering, graphical user interface, and user interface design. Students will gain a deeper understanding of basic data structures and use them to solve more complex problems in a collaborative manner.

Check out these Georgia schools that offer majors related to the Game Design Industry...

- Georgia Institute of Technology
- Georgia Southern University
- Savannah College of Art and Design
- Southern Polytechnic State

HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Programming Jobs & Careers	Annual Wages
• Animators	\$45,000
• Sound Designers	\$71,000
• Game Designers	\$83,000
• Game Programmers	\$85,000
• Game Producers	\$59,000
• Game Executive Producers	\$75,000
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WEB AND DIGITAL DESIGN

We are living in a digital age and this pathway will provide you with hands-on instruction in creating, designing and producing interactive multimedia products. You will learn how to design Websites, enhance images, and create animation to be used interactively on the internet. This pathway culminates with an opportunity for students to earn an industry-recognized credential.

PATHWAY COURSES & DESCRIPTIONS:

Course 1—Introduction to Digital Technology - 11.41500

The foundation course, Introduction to Digital Technology, is designed for high school students to understand, communicate, and adapt to a digital world as it impacts their personal life, society and the business world. You will explore: Hardware • Software • Internet Basics • Web Design • Basic Troubleshooting • Networking Trends • Digital Citizenship • Careers in Field • Programming

Course 2—Digital Design - 11.45100

The second class is formatted to teach students multimedia concepts and applications utilizing text, animation, sound, video, Web, and various multimedia applications. You will explore: Digital Communication • Basic Programming Graphic Design • Layout • Photography • Audio & Video Production • Website Development • Animation • Mulitmedia • Typography • Editing Software

Course 3—Web Design - 11.45200

In the final class in the pathway students will uncover the elements and principles of design while creating professional quality web sites and digital products. You will explore: The Web Development Process • Advanced Layout and Design Features • Scripting Languages HTML • Servers • All the Latest Technology Developments in the web and digital world.

Check out these Georgia schools that offer majors related to the Web & Digital Communications...

Art Institute of Atlanta
 Georgia Institute of Technology
 Gwinnett Technical College
 Lanier Technical College
 Savannah College of Art and Design (SCAD)
 Southern Polytechnic State
 University of Georgia

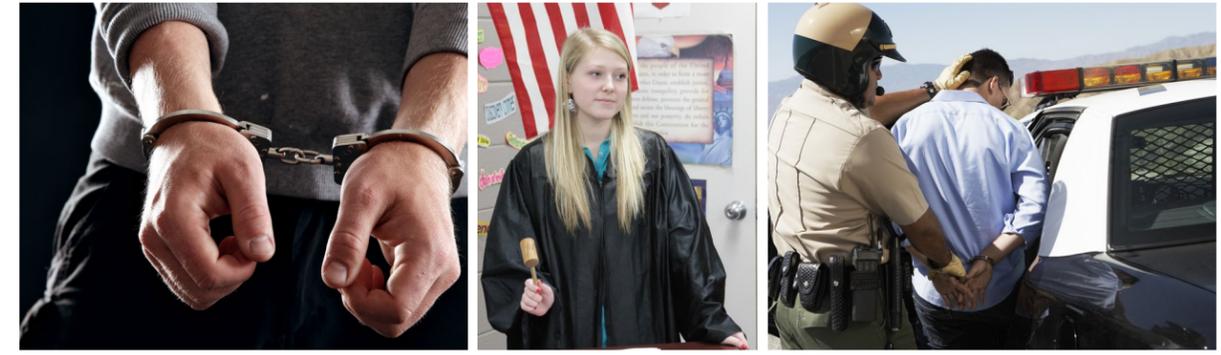
HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Web & Digital Design Jobs and Careers	Annual Wages
• Computer and Info Research Scientist	\$100,650
• Computer Programmer	\$71,380
• Computer Support Specialist	\$46,260
• Computer Systems Analyst	\$77,740
• Data Administrator	\$73,490
• Information Security Analyst	\$75,660
• Web Developer	\$75,660
• Computer & Network Administrator	\$69,160
• Software Developer	\$90,530

Source: U.S. Department of Labor



Future Business Leaders of America (FBLA) is an organization for business students in middle and high school. FBLA gives students opportunities to develop leadership and career skills while preparing for careers in business and business related fields. Through its various projects and competitive events, FBLA provides leadership development training for its members to become successful leaders in schools, communities and future careers. For More Information: Georgia FBLA - www.gafbla.org; National FBLA-PBL - www.fbla-pbl.org



CORRECTIONS SERVICES

The career opportunities available in Corrections are numerous! Be a part of keeping our community safe from those who choose to break the law! There are jobs available as a Correctional Officer, Probation Officer or Parole Officer. Want to try to redirect youthful offenders? Try a career in Juvenile Corrections or Probations. You can make a difference! Are you more interested in how the criminal mind works? Studying those who are already in custody is also a part of this career field.

PATHWAY COURSES & DESCRIPTIONS:

Course 1—Introduction to Law, Public Safety, Corrections and Security - 43.45000

This course will examine the basic concepts of law related to citizens' rights and responsibilities along with exploring career opportunities in the Law and Public Safety field. Students will receive information and training in the following areas: Dangers in Public Safety (Gangs, Drugs/DUI, Disease) • Handcuffing and Fingerprinting • CERT (Disaster Preparedness, CPR, First Aid, Fire prevention) • Terrorism (International and Domestic) • Criminal and Civil Law

Course 2—Criminal Justice Essentials - 43.45100

This course will examine the history and evolution of the police force as well as the court system. Students will learn skills related to: Traffic and Patrol Operations (Accident Reconstruction, Traffic stops, Types of Patrol) • Civil and Criminal Laws Mock Trial (Pre-trial procedures, steps in a trial, creation of a trial) • Police procedure • Sentencing options (including research on the death penalty)

Course 3—Applications of Corrections - 43.45700

This course provides an analysis of all phases of the American Correctional System and practices, including the history, procedures and objectives. Topics include the history and evolution of correctional facilities; legal and administrative problems; institutional facilities and procedures; probation, parole and pre-release programs; alternative sentencing; rehabilitation; effects and costs of recidivism; community involvement; officer safety; and staffing.

Check out these Georgia schools that offer majors related to Law Enforcement...

Georgia Gwinnett College
 Georgia State University
 Lanier Technical College
 University of Georgia
 University of North Georgia

HOW MUCH CAN YOU MAKE STARTING OUT NATIONALLY?

Corrections Jobs and Careers	Annual Wages
• Adult Correctional Officer	\$24,322
• Juvenile Correctional Officer	\$24,849
• Adult Probation Officer	\$31,474
• Juvenile Probation Officer	\$29,399
• Parole Officer	\$34,480
• Forensic Psychologist	\$61,496

Source: U.S. Department of Labor



SkillsUSA is the Career & Technical Student Organization for Law Enforcement Services. SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. SkillsUSA helps each student excel. Students can compete regionally, state and nationally in events such as: Criminal Justice, Crime Scene Investigations, First Aid/CPR, Job Interview, Criminal Justice Quiz Bowl, Job Skill Demonstration, and much more. For More Information: Georgia SkillsUSA - www.skillsusageorgia.org; National SkillsUSA - www.skillsusa.org



FIREFIGHTER I

CURRICULUM

Program-Specific Core – Total of 15 Hours

FRSC 1020 *Basic FF/EMS Fundamentals* (3)
FRSC 1030 *Basic Firefighter-Module I* (5)

PROGRAM DESCRIPTION

The Firefighter I Technical Certificate of Credit program is conducted in cooperation with the Georgia Fire Academy and Georgia Firefighter Standards and Training to ensure graduates have the skills, knowledge and credentials to serve as firefighters in paid and volunteer fire departments. Graduates will be tested and certified at the state level. Program graduates receive a Firefighter I Technical Certificate of Credit.

PROGRAM SPECIFIC INFORMATION

Students are accepted Spring and Fall Semesters based on course and space availability. Students must be 18 years old to sit for ProBoard testing. Tests must be taken within one year of program completion.

PHYSICAL FITNESS & ADDITIONAL EQUIPMENT REQUIREMENTS

This program requires that the student have National Fire Protection Association's (NFPA) Standard 1582, standard on medical requirements for Fire Fighters, or a physician's release to participate. All candidates should be in excellent condition. Additional physical fitness requirements may be added based on any revisions to NFPA Standards or action taken by Georgia Firefighter Standards and Training Council. Students are required to rent or purchase NFPA compliant Personal Protective Equipment (turn out gear).

GRADE REQUIREMENT

Students must complete each course with a grade of C or higher before progressing to the next course.

PROGRAM LENGTH & AVAILABILITY

1 Semester
Campus Availability: Hall, Barrow

ADMISSIONS REQUIREMENTS

- Must be 18 years of age.
- High school diploma or GED is required prior to admission. (Official transcripts or GED scores must be submitted from all colleges and/or high schools attended for credit.)
- ACCUPLACER Testing, or submit SAT, ACT, COMPASS, or ASSET test scores.

FINANCIAL AID

This program is not eligible for the Pell Grant, but may be eligible for Institutional and State Financial Aid. Contact a Financial Aid Counselor for eligibility requirements and application materials.

CERTIFICATE PROGRAM FF11

FRSC 1040 *Basic Firefighter-Module II* (3)
FRSC 1141 *Hazardous Materials Operator* (4)



LAW ENFORCEMENT SERVICES

Do you know how many career opportunities are available in Law and Public Safety? You could be a vital member of the team keeping our community safe. There are opportunities right here in our community to be a part of the Sheriff's Department, Barrow County Emergency Services or in the courts as a prosecutor or defense attorney! Are you a curious person? Check out the jobs available in Crime Scene Investigations! You may also have the ability to make a career in this field at the State or Federal Level with the Georgia State Patrol, GBI, FBI, and numerous other agencies. Know your rights, know your responsibilities as a citizen and find a rewarding career all in one place!

PATHWAY COURSES & DESCRIPTIONS:

Course 1—Introduction to Law, Public Safety, Corrections and Security - 43.45000

This course will examine the basic concepts of law related to citizens' rights and responsibilities along with exploring career opportunities in the Law and Public Safety field. Students will receive information and training in the following areas: Dangers in Public Safety (Gangs, Drugs/DUI, Disease) • Handcuffing and Fingerprinting • CERT (Disaster Preparedness, CPR, First Aid, Fire prevention) • Terrorism (International and Domestic) • Criminal and Civil Law

Course 2—Criminal Justice Essentials - 43.45100

This course will examine the history and evolution of the police force as well as the court system. Students will learn skills related to: Traffic and Patrol Operations (Accident Reconstruction, Traffic stops, Types of Patrol) • Civil and Criminal Laws Mock Trial (Pre-trial procedures, steps in a trial, creation of a trial) • Police procedure • Sentencing options (including research on the death penalty)

Course 3—Forensics Science and Criminal Investigations - 43.45200

This course provides students with the opportunity to examine the basic principles of forensic science and criminal investigations. Including investigative procedures used in: Fingerprinting and analysis • Interviews and interrogations • Evaluating criminal behavior • Gathering and Preserving evidence (DNA, Blood Spatter Analysis, Cast molds) • Human Remains. This course satisfies the 4th science requirement.

Check out these Georgia schools that offer majors related to Law Enforcement...

Georgia Gwinnett
Georgia State University
Lanier Technical College
University of Georgia
University of North Georgia

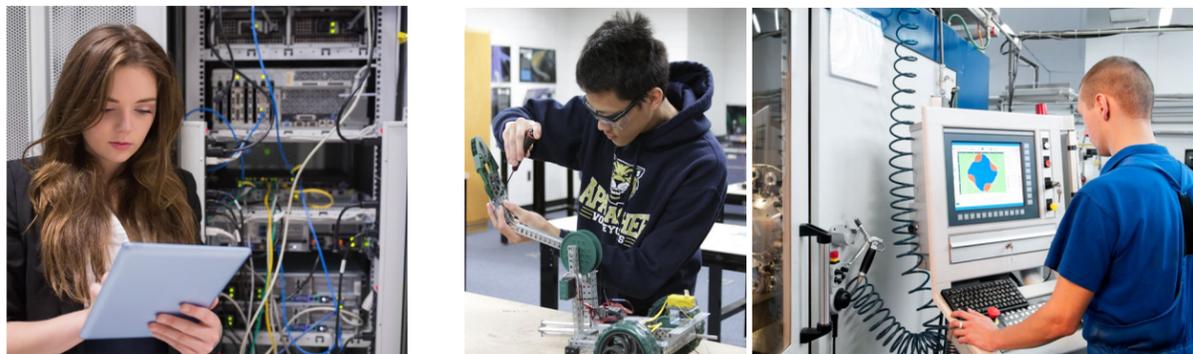
HOW MUCH CAN YOU MAKE STARTING OUT NATIONALLY?

Law Enforcement Jobs and Careers	Annual Wages
• Paralegal	\$45,627
• Police Officer	\$42,506
• Probation Officer	\$40,027
• Security Manager	\$58,146
• Legal Assistant	\$41,591
• Fraud Investigator	\$56,271
• Administrative Assistant	\$35,332
• Forensic Scientist	\$55,200

Source: U.S. Department of Labor



SkillsUSA is the Career & Technical Student Organization for Law Enforcement Services. SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. SkillsUSA helps each student excel. Students can compete regionally, state and nationally in events such as: Criminal Justice, Crime Scene Investigations, First Aid/CPR, Job Interview, Criminal Justice Quiz Bowl, Job Skill Demonstration, and much more. For More Information: Georgia SkillsUSA - www.skillsusageorgia.org; National SkillsUSA - www.skillsusa.org



MECHATRONICS

CURRICULUM

Program-Specific Core – Total of 12 Hours

IDSY 1005 *Introduction to Mechatronics* (4)

IDSY 1170 *Industrial Mechanics* (4)

IDSY 1190 *Fluid Power Systems* (4)

Total: 12 Hours

Graduation requirement includes completion of a total of 12 hours in the above areas

PROGRAM DESCRIPTION

The Mechatronics Technician certificate is designed to provide students with entry level understanding and skills to perform duties on Mechatronic equipment and industrial automation. Topics include safety procedures, mechanics, fluid power, and pumps and piping system maintenance. Students will obtain knowledge which will provide an understanding of the basic technologies used in industry to achieve automated processes.

PROGRAM SPECIFIC INFORMATION

Students are accepted every semester based on course and space availability.

PROGRAM LENGTH & AVAILABILITY

1 Semesters

Campus Availability: Barrow

ADMISSIONS REQUIREMENTS

- Must be 16 years of age.
- High school diploma or GED is required prior to admission.
(Official transcripts or GED scores must be submitted from all colleges and/or high schools attended for credit.)
- ACCUPLACER Testing, or submit SAT, ACT, or COMPASS test scores.

FINANCIAL AID

This program is not eligible for the Pell Grant, but may be eligible for Institutional and State Financial Aid. Contact a Financial Aid Counselor for eligibility requirements and application materials.

CERTIFICATE PROGRAM

MT21



ROBOTICS AND APPLIED SCIENCE

Manufacturing is the production of goods for use or sale using machines, tools, chemical and biological formulation. The manufacturing sector is closely connected with engineering and industrial design. The term is most commonly applied to high-tech industrial production, in which raw materials are transformed into finished goods on a large scale.

PATHWAY COURSES & DESCRIPTIONS:

Course 1—Foundations of Manufacturing and Materials Science - 21.44100

Foundations of Manufacturing and Materials Science is the introductory course for this pathway. This course provides students with opportunities to become familiar with related careers and develop fundamental technological literacy as they learn about the history, systems, and processes of manufacturing. In addition, the course will provide an overview of the safe use of tools and equipment used in the industry.

Course 2—Robotics and Automated Systems - 21.44500

Upon completing this course, students will be able to apply their knowledge of computer aided design (CAD), computer numerical control (CNC), robotics, computer assisted manufacturing (CAM), programmable logic controllers, automated guided vehicles (AGV), and computer integrated manufacturing (CIM).

Course 3—Production Enterprises - 21.44400

The purpose of this course is to give students an understanding of how to design and implement a production system. Students learn how businesses engage in the production of products beginning with pre-production activities and continuing through post-production activities. Additionally, students will learn about the historical and societal impact of production. Students will also develop an understanding of careers available in manufacturing and the skills and education required for those careers.

Check out these Georgia schools that offer majors related to the Robotics Industry...

Athens Technical College
Georgia Institute of Technology
Gwinnett Technical College
Kennesaw State University
Lanier Technical College
North Georgia Technical College
Morehouse College
Spellman College
University of Georgia

HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Robotics Jobs & Careers	Annual Wages
• Computer Numerical Control Operator (CNC Operator), Machinist	\$37,800
• Electro-Mechanical Technician (E/M Technician)/Engineering Technician	\$55,610
• Manufacturing Engineer	\$97,300

Source: U.S. Department of Labor



The Technology Student Association (TSA) is the only student organization devoted exclusively to the needs of students interested in technology. Members learn through exciting competitive events, leadership opportunities and much more. TSA chapters take the study of STEM (science, technology, engineering, mathematics) beyond the classroom and give students the chance to pursue academic challenges among friends with similar goals and interests. For More Information: Georgia TSA www.gatsa.org; National TSA www.tsaweb.org



MARKETING AND MANAGEMENT

Marketing and Management is one of three pathways in the Marketing Cluster. Marketing is the process of developing, promoting, pricing and distributing goods and services to customers in order to satisfy customer wants and needs. Students participating in Georgia's Marketing and Management Pathway will obtain knowledge and skills in management and entrepreneurship, professional sales and marketing, buying and merchandising, marketing communications and promotion, marketing information management and research, distribution and logistics, global marketing, and e-marketing.

PATHWAY COURSES & DESCRIPTIONS:

Course 1—Marketing Principles - 08.47400

This course will serve as the foundational course for all Marketing Pathways. Marketing Principles addresses all the ways in which marketing satisfies consumer and business needs and wants for products and services. Students develop a basic understanding of employability, foundational and business administration skills, instructional projects with real businesses, and work-based learning activities including School-Based Enterprises.

Course 2—Marketing and Entrepreneurship - 08.45100

This second level course builds on the concepts taught in Marketing Principles. Students will learn about the various types of business ownership and what owning a business involves and requires. Projects include researching famous entrepreneurs, interviewing and having entrepreneur guest speakers, learning about franchises and creating a business plan for a future business.

Course 3—Marketing Management - 08.45200

Students assume a managerial perspective in applying economic principles in marketing, analyzing operations needs, examining distribution and financial alternatives, managing marketing information, pricing products and services, developing product/service planning strategies, promoting products and services, purchasing, and professional sales.

Check out these Georgia schools that offer majors related to Marketing and Management...

Emory University
Georgia Gwinnett College
Gwinnett Technical College
University of Georgia

HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Marketing Jobs and Careers	Annual Wages
• Chief Executive Officer	\$97,448
• Operations Manager	\$56,180
• Promotions Manager	\$57,491
• Marketing Manager	\$68,286
• Purchasing Manager	\$68,348

Source: U.S. Department of Labor



DECA is the career and technical student organization for all marketing pathways. DECA prepares emerging leaders and entrepreneurs in marketing, finance, hospitality, and management in high schools and colleges around the globe.

For More Information: Georgia DECA - www.georgiadeca.org
National DECA - www.deca.org



ENGINEERING AND TECHNOLOGY

In a word, engineering is about design! Students will learn about how to turn an idea into an actual product using the engineering design process. Along the way, they must learn to use tools and technology to ensure the product solves their problem effectively. Students will learn key concepts on several topics including structural design, catapults, electronics, and many more.

Engineering is an exciting career choice because there are many specializations to choose from. The starting salaries are also very high as is the demand, which provides great job security.

PATHWAY COURSES & DESCRIPTIONS:

Course 1—Foundations of Engineering and Technology - 21.42500

This STEM driven course provides the student with an overview of engineering and technology including the different methods used in the engineering design process developing fundamental technology and engineering literacy. Computer Aided Design • Safety • History • Prototyping • Architecture • 3D Modeling

Course 2—Engineering Concepts - 21.47100

This course introduces the fundamental principles of engineering. Students learn about areas of specialization within engineering, design, engineering graphics and to apply engineering tools and procedures as they complete hands-on projects and analysis. 3D modeling • Computer Simulation • 3D printing • CO2 Dragsters • Robotics

Course 3—Engineering Applications - 21.47200

Students have opportunities to apply engineering design as they develop a solution for a technological problem of their choice. Students use applications of mathematics and science to predict the success of an engineered solution. Electrathon Vehicles • Catapults • Solar Cooker • Rube Goldberg Machines

Check out these Georgia schools that offer majors related to Engineering and Technology...

Athens Technical College
Georgia Institute of Technology
Georgia Southern
Gwinnett Technical College
Kennesaw State University
Lanier Technical College
Mercer University
Savannah State University
Southern Polytechnic State
University of Georgia

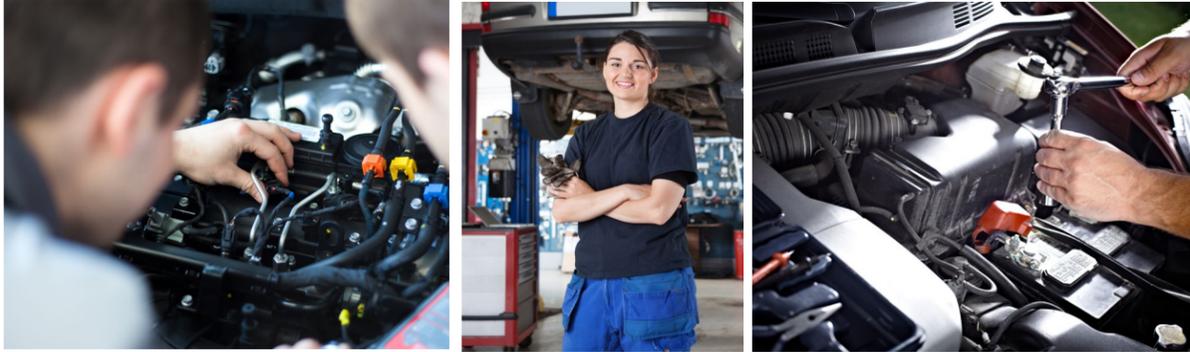
HOW MUCH CAN YOU MAKE STARTING OUT IN GEORGIA?

Robotics Jobs & Careers	Annual Wages
• Aerospace Engineer	\$97,480
• Chemical Engineer	\$90,300
• Civil Engineer	\$77,560
• Electrical Engineer	\$87,180
• Electronics Technician	\$45,635
• Mechanical Engineer	\$79,320
• Environmental Engineer	\$78,740
• Industrial Engineer	\$76,100
• Drafter	\$42,931

Source: U.S. Department of Labor



The Technology Student Association (TSA) is the only student organization devoted exclusively to the needs of students interested in technology. Members learn through exciting competitive events, leadership opportunities and much more. TSA chapters take the study of STEM (science, technology, engineering, mathematics) beyond the classroom and give students the chance to pursue academic challenges among friends with similar goals and interests. For More Information: Georgia TSA www.gatsa.org; National TSA www.tsaweb.org



AUTOMOTIVE ELECTRICAL/ELECTRONIC SYSTEMS

CURRICULUM

Program-Specific Core – Total of 9 Hours

AUTT 1010 *Auto Technology Introduction* (2)

AUTT 1020 *Auto Electrical Systems* (7) - OR - AUTT 1021 (4) + AUTT 1022 (3) *Auto Electrical Systems I & II*

Total: 9 Hours

Graduation requirement includes completion of a total of 9 Hours in the above areas

PROGRAM DESCRIPTION

This certificate of credit provides students with the knowledge and skills necessary to diagnose, service, and repair basic electrical/electronic automotive systems as an entry level technician. Topics covered include automotive shop safety, electrical theory and circuit diagnosis, automotive batteries, starting and charging systems, instrumentation, lighting, and various vehicle accessories.

Program Specific Information

Students are accepted every semester based on course and space availability.

Program Length & Availability

1 Semester

Campus Availability: Barrow, Dawson

Admissions Requirements

- Must be 16 years of age.
- High school diploma or GED is required prior to admission. (Official transcripts or GED scores must be submitted from all colleges and/or high schools attended for credit.)
- ACCUPLACER Testing, or submit SAT, ACT, CPE, COMPASS, or ASSET test scores.

Financial Aid

This program is not eligible for the Pell Grant, and may be eligible for Institutional and State Financial Aid. Contact a Financial Aid Counselor for eligibility requirements and application materials.

CERTIFICATE PROGRAM MT21



AUTOMOTIVE ENGINE PERFORMANCE TECHNICIAN

CURRICULUM

Program-Specific Core – Total of 16 Hours

AUTT 1010 *Auto Technology Introduction* (2)

AUTT 1020 *Auto Electrical Systems* (7) - OR - AUTT 1021 (4) + AUTT 1022 (3) *Auto Electrical Systems I & II*

AUTT 1040 *Auto Engine Performance* (7) - OR - AUTT 1041 (3) + AUTT 1042 (4) *Auto Engine Performance I & II*

Total: 16 Hours

Graduation requirement includes completion of a total of 16 Hours in the above areas.

PROGRAM DESCRIPTION

The Automotive Engine Performance Technician certificate of credit introduces students to the knowledge and skills they will need as entry level automotive engine performance technicians. Topics covered include: shop safety, electrical/electronics diagnosis, and diagnosis and service of fuel, ignition, emission and electronic engine controls.

PROGRAM SPECIFIC INFORMATION

Students are accepted every semester based on course and space availability.

PROGRAM LENGTH & AVAILABILITY

2 Semesters

Campus Availability: Barrow, Dawson

ADMISSIONS REQUIREMENTS

- Must be 16 years of age.
- High school diploma or GED is required prior to admission. (Official transcripts or GED scores must be submitted from all colleges and/or high schools attended for credit.)
- ACCUPLACER Testing, or submit SAT, ACT, CPE, COMPASS, or ASSET test scores.

FINANCIAL AID

This program is not eligible for the Pell Grant, but may be eligible for Institutional and State Financial Aid. Contact a Financial Aid Counselor for eligibility requirements and application materials.

CERTIFICATE PROGRAM AE51



Workforce Development Campus

Sims Academy of Innovation & Technology and Lanier Technical College

Barrow County School System and Lanier Technical College work together to increase the skill sets of graduates on the Workforce Development Campus. The Sims Academy of Innovation and Technology and Lanier Technical College share the Barrow campus and a common vision of developing workforce-ready students who can walk into high-paying industries in our region.



The Sims Academy of Innovation and Technology, established in 2014, is one of 40 College & Career Academies in Georgia. The Sims Academy focuses on developing students with a foundation of employability skills with applied academic knowledge and technical skills in industries such as robotics, culinary arts, broadcast video, mechatronics, and marketing. Students in grades 9 through 12 can prepare for their future by experiencing cutting edge career readiness and employability skill training at Sims Academy.



The Lanier Technical College campus in Barrow opened for students in 2015. Lanier Technical College, a unit of the Technical College System of Georgia, prepares students for high-wage, high-demand careers.

Lanier Technical College offers dual enrollment for students in the Barrow County School System. Students can receive both high school and technical college credit by completing dual enrollment courses.

On the Winder Campus, the following programs and courses are offered:

Occupational Programs

- Accounting
- Allied Health
- Automotive Technology
- Building Automation Systems
- Business Technology
- Business Management
- Computer Information Systems
- Criminal Justice
- Early Childhood Education
- Emergency Management
- Engineering Technologies
- Mechatronics Technologies
- Medical Assisting

Core Academic Classes*

- American Government
- American Literature
- Biology
- Calculus
- Chemistry
- Algebra
- Economics
- English Composition
- Music Appreciation
- Pre-Calculus
- Physics
- Psychology
- Public Speaking
- Sociology
- Statistics
- US History

BARROW
ECONOMIC DEVELOPMENT

tradition. innovation. location.



*Did you know? Over 25 courses from the Technical College System of Georgia (which includes Lanier Technical College) will transfer to the University System of Georgia? Check out the complete list here:

<https://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Documents/GE-transfer-chart.pdf>