

2025-2026 CLARKE COUNTY SCHOOL DISTRICT

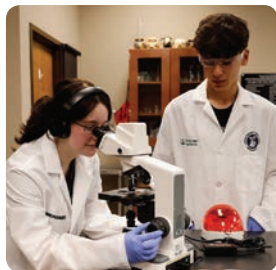
CTAE

Career Planner

Guidebook



Clarke County
School District





Introduction and Definitions

Introduction

This Career, Technical, and Agricultural Education (CTAE) Career Planner Guidebook is intended to assist you in making career choices based on your interests, skills, and aptitudes. Inside these pages you will find the high school career pathways offered in the Clarke County School District for the 2025–2026 school year. You are encouraged to use this career planner guidebook with your professional school counselor and advisor as you embark on your college and career journey.

Definitions

Career Cluster

Clarke County's Career Clusters allow high school students to choose an area of interest. Students take classes aligned to their cluster, which helps them gain content knowledge and technical skills necessary for future success. Each cluster includes multiple career pathways.

Career Pathway

Career Pathways have three or four specialized courses developed to provide students rigorous core elements, performance standards, and skills necessary after high school graduation to go straight into the workforce or choose a college/university or the military for additional training.

College Pathways

The Athens Community Career Academy offers the following college pathways. Please see your professional school counselor or advisor for more information about these college pathway opportunities.

- College Healthcare
- Criminal Justice
- Engineering Technology

CTAE Participant

A participant is a student who earned one (1) or more credit hours in any of the CTAE program concentrations.

CTAE Concentrator

A concentrator is defined as a student who has earned two (2) or more credits in a particular CTAE program area during his/her high school career.

CTAE Pathway Completer

A pathway completer is a concentrator who has successfully completed three identified courses in a pathway.

Dual Enrollment

The Dual Enrollment Program offers students the opportunity to experience college courses and begin their college academic career while still in high school and provides for standard tuition, mandatory fees and required books. The program is offered during all terms of the school year.

End of Pathway Assessment (EOPA)

The EOPA test process provides students with a sustainable opportunity to gain valuable skills and knowledge through participation and completion of a career pathway at the secondary level.

Industry Recognized Credential of Value

CTAE pathway completers have the opportunity to earn valuable credentials in the form of industry certifications/credentials, occupational assessment achievement, and/or state licensure by passing the EOPA. The student receives a certificate (credential) which is used to signal that the student has acquired the knowledge, skills and abilities required in a specific occupation or industry, giving employers confidence in their new hires.

Work-Based Learning

Work-Based Learning Programs are structured educational experiences that integrate classroom learning (school-based) with productive, structured work experiences (work-based), related to a student's career goal. Work-Based Learning internships can be paid or unpaid. Students are allowed to leave the school campus to intern with local businesses, earning up to one, two, or three high school credits for the experience. Students are encouraged to contact their school's Work-Based Learning Coordinator for more information.

Plant and Floral Design Systems Pathway

This pathway 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.

Pathway Courses:

- Course 1: Basic Agriculture Science (02.47100)
- Course 2: General Horticulture and Plant Science (01.46100)
- Course 3: Floral Design and Management (01.46600)

WORK-BASED LEARNING EXPERIENCES

Technical Skills Applications
Employability Skills Assessment
Career Technical Student Organization Participation

END OF PATHWAY ASSESSMENT

Floriculture and Greenhouse Management Assessment (YouScience/Precision Exams)

TOP CAREER CHOICES

Floral Design Director, Bachelor's Degree Needed, \$55,101 Average Annual Salary

Floral Designer, Associate's Degree Needed, \$43,000 Average Annual Salary

Assistant Produce Manager, Associate's Degree Needed, \$54,180 Average Annual Salary

Florist and Event Coordinator, Associate's Degree Needed, \$45,257 Average Annual Salary

ADDITIONAL CAREER CHOICES

Pressed Flower Framing Manager, arrangement maker, Floral Designer and Event Stylist and Producer, Horticultural Operations Technician

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

4-Year Universities/ Colleges, 2-Year Colleges, Technical Colleges, Special Purpose Schools, On-the-Job Training, Military



Career Cluster

Agriculture, Food, and Natural Resources

The Agriculture, Food, and Natural Resources Career Cluster includes the production, processing, marketing, financing, distribution, and development of agricultural commodities and resources. These commodities include food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

■ Pathways:

- Plant and Floral Design Systems 7
- Plant and Landscape Systems 8
- Veterinary Science 9

Plant and Landscape Systems Pathway

A career in plant and landscape 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. Those who are interested in this field should be able to carry out projects and work independently, have a commitment to quality and customer service, have an appreciation of our natural environment, and have good communication skills, both written and verbal.

Pathway Courses

- Course 1: Basic Agriculture Science (02.47100)
- Course 2: General Horticulture and Plant Science (01.46100)
- Course 3: Nursery and Landscape (01.47000)

WORK-BASED LEARNING EXPERIENCES

Technical Skills Applications
Employability Skills Assessment
Career Technical Student Organization Participation

END OF PATHWAY ASSESSMENT

State developed Plant Science/Horticulture Exam (NOCTI)

TOP CAREER CHOICES

Nursery and Greenhouse Managers, High School Diploma Needed, \$23,310 Average Annual Salary, 743 Annual Average Openings in Georgia

Pesticide Handlers, Applicators, Postsecondary Certificate Needed, \$32,353 Average Annual Salary, 38 Annual Average Openings in Georgia

Environmental Science Technicians, Bachelor's Degree, \$39,846 Average Annual Salary, 137 Annual Average Openings in Georgia

Plant and Soil Scientists, Bachelor's Degree, \$68,900 Average Annual Salary, 10 Annual Average Openings in Georgia

ADDITIONAL CAREER CHOICES

Farm and Home Management Advisors, Hydrologists, Environmental Scientists, Agricultural Technicians, Food Scientists and Technologists

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

4-Year Universities/ Colleges, 2-Year Colleges, Technical Colleges, Special Purpose Schools, On-the-Job Training, Military

Veterinary Science Pathway

The Veterinary Science Pathway covers the basics of animal care. Topics covered include disease, parasites, feeding, shelter, grooming, and general animal care. The target population is career preparatory students desiring to continue education after high school or to enter the workforce after graduation from high school. This pathway is particularly suited for students who have a passion for animals including working with dogs and cats.

Pathway Courses

- Course 1: Basic Agriculture Science (02.47100)
- Course 2: Animal Science Technology / Biotechnology (02.42100)
- Course 3: Veterinary Science (02.42400)

WORK-BASED LEARNING EXPERIENCES

Technical Skills Applications
Employability Skills Assessment
Career Technical Student Organization Participation

END OF PATHWAY ASSESSMENT

Veterinary Assistant 1 (YouScience/Precision Exams)

TOP CAREER CHOICES

Veterinarian, Advanced Degree Needed, \$115,000 Average Annual Salary

Associate Veterinarian, Bachelor's Degree Needed, \$100,000 Average Annual Salary

Veterinarian Technician, Associate Degree Needed, \$59,290 Average Annual Salary,
260 Annual Average Openings in Georgia

Urgent Care Veterinarian, Advanced Degree, \$120,000 Average Annual Salary

ADDITIONAL CAREER CHOICES

Lead Veterinarian, Relief Veterinarian, Managing Veterinarian, Shelter Veterinarian, Large Animal Veterinarian

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

4-Year Universities/ Colleges, 2-Year Colleges, Technical Colleges, Special Purpose Schools,
On-the-Job Training, Military





Career Cluster

Arts, A/V Technology, and Communications

The Arts, Audio/Video Technology, and Communications Career Cluster is for students who want to work in designing, producing, exhibiting, performing, writing, and publishing multimedia content. Technical skill areas include visual and performing arts, graphic design, journalism, and entertainment services.

■ Pathways:

- Animation and Digital Media 13
- *Broadcast Video Production 14
- Graphic Communication 15

**An industry certified pathway*

Animation and Digital Media Pathway

The Animation and Digital Media Pathway is a series of courses that teach all aspects of 2D and 3D animation and digital design. Students will gain knowledge in animation history, basic modeling, storyboarding concepts, game development and fundamentals of motion while working to incorporate effective sound and lighting techniques as well as 3-D space morphing into their animated projects. Working independently, as well as on small production teams, students will learn to manage the entire production pipeline for 3-D projects. Employment of animators and Video game developers is projected to grow.

Pathway Courses

- Course 1: Introduction to Digital Media (48.42100)
- Course 2: Principles and Concepts of Animation (48.42200)
- Course 3: Advanced Animation, Game and APP Design (48.42300)
- Course 4 (Optional): Animation Internship/Capstone (48.42400)
(Optional fourth course not required for pathway completion)

WORK-BASED LEARNING EXPERIENCES

- Technical Skills Applications
- Employability Skills Assessment
- Career Technical Student Organization Participation

END OF PATHWAY ASSESSMENT

In development

TOP CAREER CHOICES

Game Developers: Bachelor's Degree Needed, \$91,190 Average Annual Salary, 170 Annual Average Openings in Georgia

Web Designers, Bachelor's Degree Needed, \$91,190 Average Annual Salary, 340 Annual Average Openings in Georgia

Multimedia Artists & Animators, Bachelor's Degree, \$59,290 Average Annual Salary, 260 Annual Average Openings in Georgia

Film and Video Editors, Bachelor's Degree, \$61,800 Average Annual Salary, 210 Annual Average Openings in Georgia

ADDITIONAL CAREER CHOICES

Artist, Illustrators, Motion Graphic Artists, Web Developer, Multimedia Producer

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

4-Year Universities/ Colleges, 2-Year Colleges, Technical Colleges, Special Purpose Schools, On-the-Job Training, Military

Broadcast Video Production Pathway

The broadcasting and digital media industry is comprised of two major employers—radio/television broadcasting companies and movie/television production companies. Jobs within the industry are organized into five major areas: program production (producers, film and video editors, announcers, program directors), news-related (reporters, news analysts, news directors), technical (television/video camera operators, technicians, engineers, network systems administrators), sales (advertising/marketing managers and producers of commercials), and management.

Pathway Courses

- Course 1: Audio and Video Technology and Film I (10.51810)
- Course 2: Audio and Video Technology and Film II (10.51910)
- Course 3: Broadcast Video Production Applications (10.51410)

WORK-BASED LEARNING EXPERIENCES

Technical Skills Applications
Employability Skills Assessment
Career Technical Student Organization Participation

END OF PATHWAY ASSESSMENT

Adobe Certified Associate (ACA): Adobe Premiere Pro

TOP CAREER CHOICES

Audio and Video Equipment Technician, Associate Degree Needed, \$43,120 Annual Average Salary, 390 Annual Average Openings in Georgia

Camera Operators, TV, Video & Motion Picture, Associate Degree Needed, \$57,500 Average Annual Salary, 230 Annual Average Openings in Georgia

Graphic Designer, Bachelor's Degree Needed, \$46,560 Average Annual Salary, 850 Annual Average Openings in Georgia

Film and Video Editors, Bachelor's Degree, \$61,800 Average Annual Salary, 210 Annual Average Openings in Georgia

ADDITIONAL CAREER CHOICES

Set and Exhibit Designers, Sound Engineering Technician, Broadcast Technician, Technical Directors/Managers

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

4-Year Universities/ Colleges, 2-Year Colleges, Technical Colleges, On-the-Job Training, Military

Graphic Communications Pathway

Programs in printing technologies prepare people to produce printed materials such as books, magazines, brochures, and educational materials. Students learn to lay out pages, make plates, and operate printing presses. They learn to set up, maintain, and repair equipment. They also learn to work with sometimes very complex publishing software to edit digital images. Students will take courses in print-related operations, including lithography, offset printing, and flexography. They will learn to lay out the components of a page such as text columns, graphics, and headers.

Pathway Courses

- Course 1: Introduction to Graphics and Design (48.56100)
- Course 2: Graphic Design and Production (48.56200)
- Course 3: Advanced Graphic Output Processes (r 48.57000)

WORK-BASED LEARNING EXPERIENCES

Technical Skills Applications
Employability Skills Assessment
Career Technical Student Organization Participation

END OF PATHWAY ASSESSMENT

Visual Communications and Multimedia Design (NOCTI)

TOP CAREER CHOICES

Graphic Designers, Bachelor's Degree Needed, \$52,215 Annual Average Salary,
212 Annual Average Openings in Georgia

Set and Exhibit Designers, Bachelor's Degree Needed, \$56,388 Average Annual Salary,
25 Annual Average Openings in Georgia

Multimedia Artist and Animators, Bachelor's Degree Needed, \$54,237 Average Annual Salary,
82 Annual Average Openings in Georgia

Desktop Publishers, Associate Degree, \$46,032 Average Annual Salary, 40 Annual Average Openings in Georgia

ADDITIONAL CAREER CHOICES

Prepress Technicians and Workers, Print Binding and Finishing Workers, Printing Press Operators,
Proofreaders, and Copy Markers

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

4-Year Universities/ Colleges, 2-Year Colleges, Technical Colleges, Special Purpose Schools,
On-the-Job Training, Military





Career Cluster

Business Management and Administration

The Business Management and Administration Career Cluster equips students with computer skills for future college and career plans in the dynamic world of business. Cluster skills mastered include planning, organizing, directing, and evaluating as well as owning and operating a successful business.

■ Pathways:

- Business Innovations 19

Business Innovations (Entrepreneurship) Pathway

Entrepreneurs, innovators, proprietors, and small business owners play a key role in Georgia's economy. According to the United States Small Business Administration, there are 907,068 small businesses in Georgia (<http://www.sba.gov/>). Small business owners manage their own companies. Job opportunities in business are varied and educational requirements vary according to specialization. Business professionals may be managers, owners, accountants, economists, administrators, or analysts.

Pathway Courses

- Course 1: Introduction to Business and Technology (07.44130)
- Course 2: Legal Environment of Business (06.41500)
- Course 3: Entrepreneurship (06.41610)

WORK-BASED LEARNING EXPERIENCES

Technical Skills Applications
Employability Skills Assessment
Career Technical Student Organization Participation

END OF PATHWAY ASSESSMENT

Business Financial Management (NOCTI)

TOP CAREER CHOICES

General and Operations Managers, Associate's Degree Needed, \$116,076 Annual Average Salary, 2,983 Annual Average Openings in Georgia

Marketing Research Analysis and Marketing Specialist, Bachelor's Degree Needed, \$63,503 Average Annual Salary, 519 Annual Average Openings in Georgia

Personal Financial Advisors, Bachelor's Degree Needed, \$119,425 Average Annual Salary, 410 Annual Average Openings in Georgia

Fundraisers, Bachelor's Degree, \$46,032 Average Annual Salary, 355 Annual Average Openings in Georgia

ADDITIONAL CAREER CHOICES

Since there are not specific occupations representing this pathway, the following are resources for small business developers:

https://sos.ga.gov/index.php/corporations/first_stop_business_guide

Georgia Entrepreneur & Small Business Programs: <https://www.georgia.org/small-business>

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

4-Year Universities/ Colleges, 2-Year Colleges, Technical Colleges, Special Purpose Schools,
On-the-Job Training, Military



Career Cluster

Education and Training

The Education and Training Career Cluster includes planning, managing, and providing education and training services as well as related learning support services.

Pathways:

- Teaching as a Profession

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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. School and working conditions vary from town to town. Some schools may have few supplies and equipment while some are well equipped.

Pathway Courses

- Course 1: Examining the Teaching Profession (13.01100)
- Course 2: Contemporary Issues in Education (13.01200)
- Course 3: Teaching as a Profession Practicum (13.01300)

WORK-BASED LEARNING EXPERIENCES

Technical Skills Applications
Employability Skills Assessment
Career Technical Student Organization Participation

END OF PATHWAY ASSESSMENT

State-Developed Credential: Teaching as a Profession (NOCTI)

TOP CAREER CHOICES

Postsecondary Teachers, Advanced Degree Needed, \$78,062 Annual Average Salary, 145 Annual Average Openings in Georgia

Secondary School Teachers except Special & Career Technical Education, Bachelor's Degree Needed, \$55,181 Average Annual Salary, 928 Annual Average Openings in Georgia

Career Technical Education Teachers Secondary School, Bachelor's Degree Needed, \$57,616 Average Annual Salary, 85 Annual Average Openings in Georgia

Instructional Designers and Technologists, Master's Degree, \$63,733 Average Annual Salary, 1,338 Annual Average Openings in Georgia

ADDITIONAL CAREER CHOICES

Educational Administrators, Instructional Coordinators, Instructors, Library Media Specialists, School Psychologists, Adapted PE Specialists

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

4-Year Universities/Colleges, 2-Year Colleges, Technical Colleges, Special Purpose Schools, On-the-Job Training, Military



**Public Management and Administration Pathway

This pathway is focused on planning and performing government functions at the local, state, and federal levels, including governance, national security, foreign service, planning, revenue and taxation, and regulations. Government and public administration workers help pass and enforce laws, rules and regulations. They work in national, state, or local government. They plan, coordinate, and manage a huge range of services to ensure that organizations run efficiently, economically and equitably. Public administrators typically work in civil service, foreign service, and consulting. Most “civil servants,” as they are called, work for state and local governments, such as counties and municipalities.

Pathway Courses

- Course 1: Introduction to Government and Public Administration (29.41000) together with American Government & Civics (45.05700)
- Course 2: Government and Public Administration: State and Federal Issues (29.41100) together with Introduction to U.S. Intelligence & National Security Studies (45.0600)
- Course 3: Government and Public Administration: Local & State Issues (29.41200) together with Personal Finance and Economics (45.06100)

WORK-BASED LEARNING EXPERIENCES

Technical Skills Applications
Employability Skills Assessment
Career Technical Student Organization Participation

END OF PATHWAY ASSESSMENT

In development

TOP CAREER CHOICES

City Manager, Bachelor's Degree Needed, \$131,507 Annual Average Salary

Planning and Zoning Administrator, Bachelor's Degree Needed, \$71,389 Average Annual Salary

City Clerk, Bachelor's Degree Needed, \$60,222 Average Annual Salary,
85 Annual Average Openings in Georgia

Chief of Operations, Bachelor's Degree Needed, \$111,277 Average Annual Salary,
1,338 Annual Average Openings in Georgia



Career Cluster

Government and Public Administration

The Government and Public Administration Career Cluster includes the planning and performing of government management and administrative functions at local, state, and federal levels. Careers are available in national security, foreign service, revenue, and regulations.

■ Pathways:

- Public Management and Administration 27
- JROTC-Army 28

ADDITIONAL CAREER CHOICES

Economic Development Manager, Building Inspector, Public Relations Manager, Urban Planner, Human Resource Manager, Community Development Director

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

4-Year Universities/ Colleges, 2-Year Colleges, Technical Colleges, Special Purpose Schools, On-the-Job Training, Military

****Note: Please speak with your school counselor regarding the embedded CTAE and Social Studies Pathway where students earn two high school credits for each course in the pathway.**

JROTC-Army Pathway

The Junior ROTC program is a leadership and character education program of study for students enrolled in grades 9-12. Leadership education in the Junior ROTC program offers a unique opportunity for students to develop their leadership and managerial skills. Students completing the Leadership Education – Army JROTC pathway have unlimited opportunities for post secondary education or employment in both the public and private sector. A leadership pathway is ideally suited for students interested in pursuing a career in business or public management and administration, Foreign Service, governance, national security, small business development, or human resources.

Pathway Courses

- Course 1: Army Leadership Education - 1 (28.03100)
- Course 2: Army Leadership Education - 1 Alpha (28.03110)
- Course 3: Army Leadership Education - 1 Bravo (28.03120)
- Course 4: Army Leadership Education - 2 (28.03200)
- Course 5: Army Leadership Education - 2 Alpha (28.03210)
- Course 6: Army Leadership Education - 2 Bravo (28.03220)
- Course 7: Army Leadership Education - 3 Bravo (28.03320)
- Course 8: Army Leadership Education - 3 Alpha (28.03310)
- Course 9: Army Leadership Education - 3 Bravo (28.03320)
- Course 10: Army Leadership Education - 4 (28.03400)
- Course 11: Army Leadership Education - 4 Alpha (28.03410)
- Course 12: Army Leadership Education - 4 Bravo (28.03420)

WORK-BASED LEARNING EXPERIENCES

Technical Skills Applications
Employability Skills Assessment
Career Technical Student Organization Participation

END OF PATHWAY ASSESSMENT

Not Applicable

TOP CAREER CHOICES

A leadership pathway is ideally suited for students interested in pursuing a career in business or public management and administration, Foreign Service, governance, national security, small business development, or human resources.

ADDITIONAL CAREER CHOICES

Computer Science, Marketing and Media Specialists, Heavy Equipment Operator, Office Administrator, Engineering Technician, Accounting Specialist, Diesel Mechanic

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

4-Year Universities/ Colleges, 2-Year Colleges, Technical Colleges, Special Purpose Schools, On-the-Job Training, Military



Career Cluster

Health Science

The Health Science Career Cluster includes planning, managing, and providing services in therapeutics, diagnostics, health informatics, support areas, and biotechnology research and development.

■ Pathways:

- *Therapeutic Services / Patient Care (CNA) 31
- *Therapeutic Services / Allied Health and Medicine (Phlebotomy) 32

**An industry certified pathway*

Therapeutic Services / Patient Care (CNA) Pathway

Students that successfully complete the Essentials of Healthcare course will also earn credit for the Science course Anatomy/ Physiology as an embedded credit. The grade earned in Essentials will be the same grade for Anatomy/Physiology. Careers in the Therapeutic Services pathway focus primarily on improving the health of the patient over time. Health professionals in this pathway work directly with patients and may provide care, treatment, counseling, and health education information. National labor market information indicates that eight of the top 20 fastest-growing occupations are in the Health Science industry. As roles of careers in Therapeutic Services change, professionals in this pathway will find increased opportunities to work independently.

Pathway Courses

- Course 1: Introduction to Healthcare Science (25.52100)
- Course 2: Essentials of Healthcare (25.44000)
- Course 3: Patient Care Fundamentals (25.43600)

WORK-BASED LEARNING EXPERIENCES

Technical Skills Applications
Employability Skills Assessment
Career Technical Student Organization Participation

END OF PATHWAY ASSESSMENT

Certified Nursing Assistant Certificate (CNA)

TOP CAREER CHOICES

Certified Nursing Assistant, High School Degree + certification Needed, \$23,097 Annual Average Salary, 1,534 Annual Average Openings in Georgia

Registered Nurse, Associate's Degree Needed, \$64,111 Average Annual Salary, 2,982 Annual Average Openings in Georgia

Medical & Health Services Managers, Bachelor's Degree Needed, \$104,959 Average Annual Salary, 320 Annual Average Openings in Georgia

Healthcare Social Workers, Advanced Degree (Masters), \$48,640 Average Annual Salary, 192 Annual Average Openings in Georgia

ADDITIONAL CAREER CHOICES

Certified Medical Assistant, Certified Surgical Technician, EEG Technologist, Clinical Pharmacy Specialist, Physical Therapist

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

4-Year Universities/ Colleges, 2-Year Colleges, Technical Colleges, Special Purpose Schools, On-the-Job Training, Military

Therapeutic Services / Allied Health and Medicine (Phlebotomy)

Pathway

Students in this pathway will explore and learn healthcare science information, skills, and attitudes applicable to different healthcare careers. Students will learn and practice skills for patient care that includes vital signs, CPR, personal care, and first aid. Students will also have the opportunity to earn a Certified Phlebotomist Technical license, which will allow them to enter the job force immediately after high school graduation or to continue into postsecondary education.

Pathway Courses

- Course 1: Introduction to Healthcare Science (25.52100)
- Course 2: Essentials of Healthcare (25.44000)
- Course 3: Allied Health and Medicine (25.43700)

WORK-BASED LEARNING EXPERIENCES

Technical Skills Applications
Employability Skills Assessment
Career Technical Student Organization Participation

END OF PATHWAY ASSESSMENT

Certified Phlebotomy Technician - CPT (NHA)

TOP CAREER CHOICES

Phlebotomists, Postsecondary Certificate Needed, \$30,838 Annual Average Salary, 668 Annual Average Openings in Georgia

Medical Assistants, Postsecondary Certificate Needed, \$29,665 Average Annual Salary, 4,047 Annual Average Openings in Georgia

Medical and Clinical Lab Technicians, Associate's Degree Needed, \$38,166 Average Annual Salary, 248 Annual Average Openings in Georgia

Cardiovascular Technologists, Associates Degree, \$53,218 Average Annual Salary, 85 Annual Average Openings in Georgia

ADDITIONAL CAREER CHOICES

Patient Service Technicians, Radiologic Technologists, Phlebotomy Supervisors Information Nurse Specialists, Respiratory Technicians

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

4-Year Universities/ Colleges, 2-Year Colleges, Technical Colleges, Special Purpose Schools, On-the-Job Training, Military



Career Cluster

Hospitality and Tourism

The Hospitality and Tourism Career Cluster includes the management, marketing, and operations of restaurants and other food services, lodging, attractions, recreation events, and travel-related services.

■ Pathways:

- Culinary Arts 37
- Entertainment and Sports Event Management 38
- Hospitality and Hotel Management 39

Culinary Arts Pathway

A career in culinary arts involves more than simply cooking. Many job opportunities exist in this field, from executive chefs to part-time food service workers. Chefs, cooks, and food preparation workers prepare and cook a wide range of foods in a variety of restaurants and other food service establishments. Food service managers are responsible for the daily operations of restaurants and other establishments that prepare and serve meals and beverages to customers. Most fast-food or short-order cooks and food preparation workers require little education or training since most skills are learned on the job. Executive chefs and head cooks who work in fine-dining restaurants require many years of training and experience.

Pathway Courses

- Course 1: Introduction to Culinary Arts (20.53100)
- Course 2: Culinary Arts I (20.53210)
- Course 3: Culinary Arts II (20.53310)

WORK-BASED LEARNING EXPERIENCES

- Technical Skills Applications
- Employability Skills Assessment
- Career Technical Student Organization Participation

END OF PATHWAY ASSESSMENT

Culinary Arts Cook (NOCTI-ACF)

TOP CAREER CHOICES

Bakers, High School Diploma Needed, \$25,603 Annual Average Salary, 840 Annual Average Openings in Georgia

Food Service Managers, Some Postsecondary Courses Needed, \$49,872 Average Annual Salary, 1,853 Annual Average Openings in Georgia

Chefs and Head Cooks, Associate's Degree Needed, \$48,943 Average Annual Salary, 335 Annual Average Openings in Georgia

Meeting, Convention and Event Planners, Bachelor's Degree, \$48,251 Average Annual Salary, 412 Annual Average Openings in Georgia

ADDITIONAL CAREER CHOICES

Baristas, Chefs, Food Service Managers, Waiters and Waitresses, Event Planners, Lodging Managers

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

4-Year Universities/ Colleges, 2-Year Colleges, Technical Colleges, Special Purpose Schools,
On-the-Job Training, Military

Entertainment and Sports Event Management Pathway

Entertainment managers play a vital role in the entertainment industry, working behind the scenes to ensure that a project's creative and business aspects come together seamlessly. Entertainment managers are responsible for representing the interests of their clients, which can include actors, musicians, and other entertainment professionals, and ensuring that they can achieve their goals and maximize their earning potential. Duties and responsibilities include coordinating logistics for events, such as travel arrangements and rehearsals and negotiating contracts and deals with venues, production companies, and other industry professionals.

Pathway Courses

- Course 1: Hospitality, Recreation and Tourism Essentials (08.45300)
- Course 2: The Business of Entertainment, Sports, and Event Management (08.48600)
- Course 3: Event Planning Applications (08.48700)

WORK-BASED LEARNING EXPERIENCES

Technical Skills Applications
Employability Skills Assessment
Career Technical Student Organization Participation

END OF PATHWAY ASSESSMENT

Certificate of Venue Management Studies Exam (IAVM)

TOP CAREER CHOICES

Meeting, Convention and Event Planners, Bachelor's Degree Needed, \$48,989 Annual Average Salary,
57 Annual Average Openings in Georgia

Set and Exhibit Designers, Bachelor's Degree Needed, \$56,388 Average Annual Salary,
25 Annual Average Openings in Georgia

Sports Advertising Sales Agent, Bachelor's Degree Needed, \$57,065 Average Annual Salary,
687 Annual Average Openings in Georgia

Sports Marketing Managers, Bachelor's Degree, \$135,905 Average Annual Salary,
849 Annual Average Openings in Georgia

ADDITIONAL CAREER CHOICES

Music Marketers and Promoters, Fan Communications Directors, Brand Partnerships Coordinators,
Event Planners

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

4-Year Universities/ Colleges, 2-Year Colleges, Technical Colleges, Special Purpose Schools,
On-the-Job Training, Military

Hospitality and Hotel Management Pathway

Hospitality and Hotel Managers are responsible for all aspects of the operation of a hotel, motel, or other lodging establishment. Students in this pathway gain an understanding of the organizational structures of different hotels and daily operational procedures. This pathway will lead the students to examine the roles and responsibilities of various divisions within a hotel operation and the impact of each on guest experience. The students will determine the different types of staffing that is necessary for different properties as well as analyze financials for the hotel industry.

Pathway Courses

- Course 1: Hospitality, Recreation, and Tourism Essentials (08.45300)
- Course 2: Hospitality, Recreation, and Tourism Management (08.45400)
- Course 3: Hotel Operations and Management (08.45500)

WORK-BASED LEARNING EXPERIENCES

Technical Skills Applications
Employability Skills Assessment
Career Technical Student Organization Participation

END OF PATHWAY ASSESSMENT

Certificate of Venue Management Studies Exam (IAVM)

TOP CAREER CHOICES

Hotel General Manager, Bachelor's Degree Needed, \$52,500 Annual Average Salary,
840 Annual Average Openings in Georgia

Guest Experiences Manager, Bachelor's Degree Needed, \$55,000 Average Annual Salary,
1,853 Annual Average Openings in Georgia

Event Manager, Associate's Degree Needed, \$55,000 Average Annual Salary,
335 Annual Average Openings in Georgia

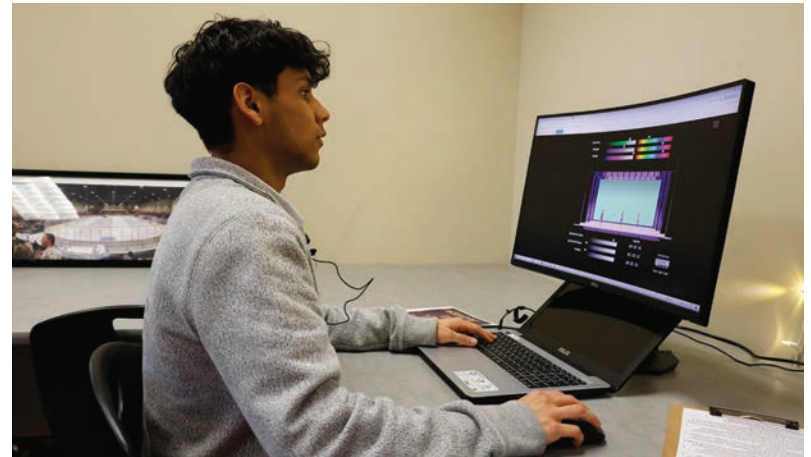
Meeting, Convention & Event Planners, Bachelor's Degree, \$48,251 Average Annual Salary,
412 Annual Average Openings in Georgia

ADDITIONAL CAREER CHOICES

Guest Services Agent, Assistant General Manager, Hotel Front Desk, Director of Sales,
Assistant Front Office Manager, Guest Experiences Manager

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

4-Year Universities/ Colleges, 2-Year Colleges, Technical Colleges, Special Purpose Schools,
On-the-Job Training, Military



Personal Care Services – Cosmetology

Although the pay is good for many of the jobs in Personal Care Services, people choose these jobs because they want to serve others. They are motivated by the need to assist others and to help make someone else's life better. Occupations are varied, including cosmetologists, estheticians, nail techs, and barbers. These types of jobs help people feel and look better. Personal Care Services workers assist individuals with their personal appearance including shampooing, cutting, coloring, and styling hair; providing manicures, pedicures, and scalp and facial treatments; providing makeup analysis; cleaning and styling wigs and hairpieces; and providing personal fitness training.

Pathway Courses

- Course 1: Introduction to Personal Care Services (12.54400)
- Course 2: Cosmetology Services II (12.41000)
- Course 3: Cosmetology Services III (12.41100)

WORK-BASED LEARNING EXPERIENCES

Technical Skills Applications
Employability Skills Assessment
Career Technical Student Organization Participation

END OF PATHWAY ASSESSMENT

Cosmetology-4182 (NOCTI)

TOP CAREER CHOICES

Manicurists and Pedicurists, Postsecondary Credential Needed, \$23,175 Annual Average Salary,
16 Annual Average Openings in Georgia

Cosmetologists, Postsecondary Credential Needed, \$27,713 Average Annual Salary,
487 Annual Average Openings in Georgia

Skin Care Specialists, Postsecondary Credential Needed, \$30,710 Average Annual Salary,
30 Annual Average Openings in Georgia

Make-up Artists, Postsecondary Credential Needed, \$53,763 Average Annual Salary,
511 Annual Average Openings in Georgia



Career Cluster

Human Services

The Human Services Career Cluster prepares individuals for employment activities related to family and human needs such as nutrition and food science, counseling and mental health services, family and community services, personal care, and consumer services.

■ Pathways:

- Personal Care Services - Cosmetology 43

ADDITIONAL CAREER CHOICES

Barbers, Nail Technicians, Funeral Directors/Morticians, Shampoo Technicians, Electrologists, Massage Therapists

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

4-Year Universities/ Colleges, 2-Year Colleges, Technical Colleges, Special Purpose Schools,
On-the-Job Training, Military





Career Cluster

Information Technology

The rapidly changing digital world of the Information Technology Career Cluster engages students in hands-on learning to prepare for careers that create, use, modify, and engage technology skills. Graphics, multimedia animation, web design, game and application development, networking, and computer repair are all possibilities.

Pathways:

- Computer Science

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Computer Science

This pathway is a broad academic discipline that explores the theoretical foundations of computing. This pathway prepares students for a wide range of careers in technology by equipping them with critical problem-solving skills and programming knowledge. By completing this pathway, students will be prepared for careers in software development, data science, and other technology fields, as well as further studies in computer science.

Pathway Courses

- Course 1: Introduction to Software Technology (11.44600)
- Course 2: Computer Science Principles (11.47100) or Advanced Placement Computer Science Principles (11.01900)
- Course 3: Advanced Placement Computer Science A (11.01600)

WORK-BASED LEARNING EXPERIENCES

Technical Skills Applications
Employability Skills Assessment
Career Technical Student Organization Participation

END OF PATHWAY ASSESSMENT

Advanced Placement Exam (College Board)
Computer Programming (NOCTI)

TOP CAREER CHOICES

Software Engineer, Bachelor's Degree Needed, \$140,000 Annual Average Salary
IT Support Engineer, Bachelor's Degree Needed, \$74,677 Average Annual Salary
Computer Programmer, Bachelor's Degree Needed, \$87,770 Average Annual Salary
Web Developer, Bachelor's Degree, \$64,284 Average Annual Salary

ADDITIONAL CAREER CHOICES

Cyber Security, Computer Engineer, IT Help Desk Manager, Senior Software Engineer, Chief Technology Officer, IT Director

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

4-Year Universities/ Colleges, 2-Year Colleges, Technical Colleges, Special Purpose Schools, On-the-Job Training, Military

Firefighter/EMT Pathway

The Firefighter/EMT Program is composed of 4 individual semester-long courses. This is a pilot program developed in partnership with Athens Clarke County Fire and Emergency Services. Students will learn hands-on skills from current Athens Clarke County Fire and Emergency Services personnel and have the opportunity to earn the Firefighter I credential that will make them eligible to be employed as a Firefighter Recruit upon high school graduation. This pathway addresses the essential components needed for a career in fire and emergency services. Students will be prepared for real-life situations that include firefighting, emergency medical response, and public safety communications.

Pathway Courses

- Course 1: Introduction to Law, Public Safety, Corrections and Security (43.45000)
- Course 2: Essentials of Fire and Emergency Services (43.45400)
- Course 3: Applications of Firefighting (43.44000)
- Course 4: Emergency Medical Responder (25.45000)

WORK-BASED LEARNING EXPERIENCES

Technical Skills Applications
Employability Skills Assessment
Career Technical Student Organization Participation

END OF PATHWAY ASSESSMENT

National Fire Protection Association (NFPA-1001 Standards)

AVERAGE SALARY AND TOP CAREER CHOICES

The average Firefighter salary in Georgia is \$47,977. The salary range for a Firefighter is usually between \$40,993 and \$53,523 per year. Top Career Choices include: Firefighter, Firefighter EMT, Firefighter Captain, Firefighter Recruit, Firefighter Lieutenant, Firefighter Engineer

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

4-Year Universities/ Colleges, 2-Year Colleges, Technical Colleges, Special Purpose Schools, On-the-Job Training, Military



Career Cluster

Law, Public Safety, Corrections and Security

The Law, Public Safety, Corrections, and Security Career Cluster prepares students for employment relating to emergency and fire services, legal services, protective services and homeland security.

■ Pathways:

- Firefighter/EMT 49

Advanced Manufacturing and Welding

This pathway provides students with an introduction to manufacturing technology and its relationship with society, individuals, and the environment. This pathway also includes a study of the various managed activities which are used to develop, produce, use, and assess production technology. Research and development, production, and marketing techniques are reviewed. In addition, students learn about a wide variety of production techniques, robotics, and artificial intelligence. Fabrication and assembly steps are highlighted. Assuring product quality is also explored.

Pathway Courses

- Course 1: Foundations of Manufacturing and Materials Science (21.44100)
- Course 2: Robotics and Automated Systems (21.44500)
- Course 3: Production Enterprises (21.44400)

WORK-BASED LEARNING EXPERIENCES

Technical Skills Applications
Employability Skills Assessment
Career Technical Student Organization Participation

END OF PATHWAY ASSESSMENT

Manufacturing Exam (NOCTI)

TOP CAREER CHOICES

Industrial Engineers, Bachelor's Degree Needed, \$76,880 Annual Average Salary,
250 Annual Average Openings in Georgia

Industrial Engineering Technicians, Associate's Degree Needed, \$48,330 Average Annual Salary,
45 Annual Average Openings in Georgia

Industrial Machinery Mechanics, Diploma, On-Job-Training, \$42,500 Average Annual Salary,
293 Annual Average Openings in Georgia

Industrial Safety and Health Engineers, Bachelor's Degree, \$75,145 Average Annual Salary,
113 Annual Average Openings in Georgia



Career Cluster

Manufacturing

The Manufacturing Career Cluster includes the processing of materials into intermediate or final products and related professional and technical support activities, such as production control, maintenance and process engineering.

Pathways:

- Advanced Manufacturing and Welding 51
- Biotechnology 52

ADDITIONAL CAREER CHOICES

Electronics Engineering Technicians, Computer User Support Specialists, Chemical Plant & System Operators, Production Associate, Manufacturing Process Manager

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

4-Year Universities/ Colleges, 2-Year Colleges, Technical Colleges, Special Purpose Schools,
On-the-Job Training, Military

Biotechnology Pathway

Biotechnology and Pharmaceuticals is one of five targeted strategic economic sectors in Athens-Clarke County. Athens-Clarke County is home to numerous bioscience employers, spanning companies large and small, from start-ups incubating at the University of Georgia to global companies like Boehringer Ingelheim and Johnson & Johnson. Biomanufacturing is unique in that it includes and requires skill sets and knowledge from both life sciences/biosciences and manufacturing. This pathway provides students with an introduction to biomanufacturing technology. Biomanufacturing requires knowledge and methods from many scientific disciplines including biology, microbiology, biotechnology, chemistry, physics, engineering, and technology. It includes genetic engineering and metabolic engineering plus various cell and tissue culture technologies.

Pathway Courses

- Course 1: Introduction to Biomanufacturing (21.44600)
- Course 2: Essentials of Biomanufacturing (21.4470)
- Course 3: Applications of Biomanufacturing (21.4480)

WORK-BASED LEARNING EXPERIENCES

Technical Skills Applications
Employability Skills Assessment
Career Technical Student Organization Participation

END OF PATHWAY ASSESSMENT

Biotechnology Aptitude and Competency Exam (BACE)

TOP CAREER CHOICES

Biological Technicians, Bachelor's Degree Needed, \$61,300 Annual Average Salary,
102 Annual Average Openings in Georgia

Medical and Clinical Laboratory Technicians, Associate's Degree Needed, \$47,000 Average Annual Salary,
127 Annual Average Openings in Georgia

Inspectors, testers, sorters, samplers, and weighers, Associate's Degree Needed, \$37,800 Average Annual Salary,
208 Annual Average Openings in Georgia

Chemical equipment operators, Associate's Degree Needed, \$45,500 Average Annual Salary,
53 Annual Average Openings in Georgia

ADDITIONAL CAREER CHOICES

Biological Quality Assurance Technician, Laboratory Scientist, Plasma Processor,
Medical Device Quality Engineer, Tissue Processing Technician, Microbiologist

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

4-Year Universities/ Colleges, 2-Year Colleges, Technical Colleges, Special Purpose Schools,
On-the-Job Training, Military

Marketing and Management Pathway

Marketing professionals are responsible for developing, implementing, and managing a company's marketing efforts, both through traditional and digital formats, to stimulate customer interest and generate sales. To assess consumer demand, marketing managers evaluate the products and services offered by their own firm and its competitors. They also seek to identify new products or services and develop potential markets. Their main goal is to maximize profit and market share by satisfying customers' wants and needs.

Pathway Courses

- Course 1: Marketing Principles (08.47400)
- Course 2: Marketing and Entrepreneurship (08.44100)
- Course 3: Marketing Management (08.44200)

WORK-BASED LEARNING EXPERIENCES

Technical Skills Applications
Employability Skills Assessment
Career Technical Student Organization Participation

END OF PATHWAY ASSESSMENT

Standard Marketing (3-credit) Program of Study Exam

TOP CAREER CHOICES

Marketing Managers, Bachelor's Degree Needed, \$108,700 Annual Average Salary, 270 Annual Average Openings in Georgia

Sales Managers, Entrepreneurships, Bachelor's Degree Needed, \$106,400 Average Annual Salary, 550 Annual Average Openings in Georgia

Management Analysts, Bachelor's Degree Needed, \$80,700 Average Annual Salary, 2,080 Annual Average Openings in Georgia

Market Research Analysts and Marketing Specialists, Bachelor's Degree, \$63,527 Average Annual Salary, 2,886 Annual Average Openings in Georgia



Career Cluster

Marketing

Marketing is the process of anticipating, managing, and satisfying consumers' demand for products, services, and ideas. The Marketing Career Cluster focuses on the strategies that support advertising and promotional techniques, business communication, and business development.

■ Pathways:

- Marketing and Management

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ADDITIONAL CAREER CHOICES

Directors of Marketing, Survey Researchers, Management Analysts, Demonstrators and Product Promoters, Internal Communications Managers

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

4-Year Universities/ Colleges, 2-Year Colleges, Technical Colleges, Special Purpose Schools, On-the-Job Training, Military



Engineering and Technology Pathway

Professionals in the engineering and technology field continue to revolutionize the way we live. They design, produce, operate, and maintain a variety of equipment and services we use in our everyday lives. The rapidly changing engineering and technology field requires a broad educational background and a lifelong commitment to learning new and specialized information. Overall job opportunities in engineering and technology are expected to be good but will vary by specialty. Technology and technology-related employment will continue to increase as technology changes and new technology is invented.

Pathway Courses

- Course 1: Foundations of Engineering and Technology (21.42500)
- Course 2: Engineering Concepts (21.47100)
- Course 3: Engineering Applications (21.47200)

WORK-BASED LEARNING EXPERIENCES

Technical Skills Applications
Employability Skills Assessment
Career Technical Student Organization Participation

END OF PATHWAY ASSESSMENT

State-developed Engineering exam (NOCTI)

TOP CAREER CHOICES

Industrial Engineering Technicians, Associate's Degree Needed, \$65,440 Annual Average Salary, 130 Annual Average Openings in Georgia

Avionics Technicians, Associate's Degree Needed, Entrepreneurships, Bachelor's Degree Needed, \$65,150 Average Annual Salary, 550 Annual Average Openings in Georgia

Electrical Engineers, Bachelor's Degree Needed, \$98,430 Average Annual Salary, 350 Annual Average Openings in Georgia

Aerospace Engineers, Bachelor's Degree, \$111,200 Average Annual Salary, 210 Annual Average Openings in Georgia



Career Cluster

Science, Technology, Engineering, Mathematics

The Science, Technology, Engineering, Mathematics Career Cluster refers to planning, managing, and providing scientific research and professional and technical services.

■ Pathways:

- Engineering and Technology

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ADDITIONAL CAREER CHOICES

All Engineers and Engineering Technologists, Civil Drafters, Cost Estimators, Electronic Technician, Quality Control Systems Managers

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

4-Year Universities/ Colleges, 2-Year Colleges, Technical Colleges, Special Purpose Schools, On-the-Job Training, Military

General Automotive Technologies

Automobile service technicians and mechanics, often called service technicians or service techs, inspect, maintain, and repair cars and light trucks. To become a master automobile mechanic, students can complete the Automobile Maintenance and Light Repair pathway, then take the end of pathway assessment in Automobile Maintenance and Light Repair offered by the National Institute for Automobile Service Excellence (ASE) in collaboration with NATEF/AYES/SkillsUSA. Students completing the Automobile Service Technician pathway may take the end of pathway assessment in Automobile Service Technology offered by the National Institute for Automobile Service Excellence (ASE) in collaboration with NATEF/AYES/SkillsUSA.

Pathway Courses

- Course 1: Automotive Technologies 1 (47.45000)
- Course 2: Automotive Technologies 2 (47.45100)
- Course 3: Automotive Technologies 3 (47.45200)

WORK-BASED LEARNING EXPERIENCES

Technical Skills Applications
Employability Skills Assessment
Career Technical Student Organization Participation

END OF PATHWAY ASSESSMENT

Automobile Service Excellence (ASE)


TOP CAREER CHOICES

Automobile Technicians and Mechanics, Diploma and Industry Credential Needed, \$49,637 Annual Average Salary, 145 Annual Average Openings in Georgia

Automotive Master Mechanics, Postsecondary Credentials Needed, \$40,430 Average Annual Salary, 1,980 Annual Average Openings in Georgia

Automotive Specialty Technicians, Postsecondary Credentials Needed, \$40,340 Average Annual Salary, 360 Annual Average Openings in Georgia

Automotive Body and Related Repairers, High School Diploma Needed, \$44,937 Average Annual Salary, 553 Annual Average Openings in Georgia


 Career Cluster

Transportation, Distribution, and Logistics

The Transportation, Distribution, and Logistics Career Cluster involves planning, managing, and moving people, materials, and goods by road, pipeline, air, rail, and water and also includes other related professional and technical support services.

■ Pathways:

- *General Automotive Technologies 63
- **An industry certified pathway*

ADDITIONAL CAREER CHOICES

Automobile Glass Installers and Repairers, Automobile Specialty Technicians,
Electrical and Electronics Installers & Repairers, Electronic Equipment Installers and Repairers

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

4-Year Universities/ Colleges, 2-Year Colleges, Technical Colleges, Special Purpose Schools,
On-the-Job Training, Military





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