

Career, Technical & Agricultural Education (CTAE) 2023-2024

CAREER CLUSTERS

CTAE HIGH SCHOOL CAREER PATHWAYS

DOL - TOP 25: Georgia's HOT Careers to 2026
General Career Area / Based on Projected Annual Openings

CAREER TECHNICAL STUDENT ORGANIZATION (CTSO)

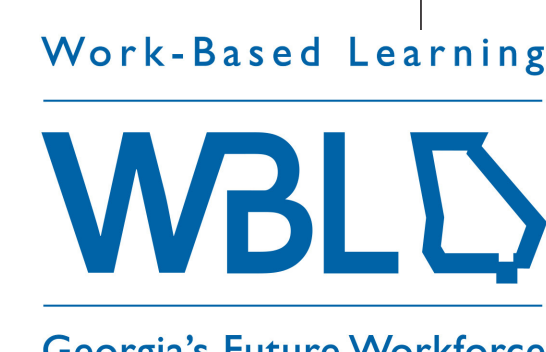
A LOOK AT CTAE HIGH SCHOOL PATHWAYS

CTAE COURSES

HIGH SCHOOLS WHERE CTAE COURSES ARE OFFERED

Connects With Various Industries	17		Agriculture, Food, and Natural Resources Plant & Landscape Systems Pathway The pathway 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. This pathway is designed to provide students with the basic skills and knowledge utilized by the green industry in nursery production and management and landscape design and management.	• 02.47100 - Basic Agriculture Science • 01.46100 - General Horticulture and Plant Science • 01.47000 - Nursery & Landscape	• Riverdale High School
			Architecture and Construction Carpentry Pathway In this pathway, students are instructed in all areas of safety including ladders, scaffolding, trenching and the use of safety harnesses. Students are introduced to the State of Georgia Building Codes and knowledge needed to lay rafters, studs and walls, and how to properly frame doors and windows. This pathway culminates with an opportunity for students in a NCCER Industry Certified program to earn credentials or take the SkillsUSA Work Force Ready exam in Carpentry.		
Connects With Various Industries	1, 7, 8, 18, 21		Arts, A/V Technology, and Communications Audio-Video Technology and Film I Pathway In this pathway, individuals may design, manufacture, operate and/or repair audiovisual equipment. Students will be involved in the presentation of sound, video and data in a variety of venues. Students may gather information and prepare broadcasts or be involved in the set up and operations of equipment used to record and transmit programs and/or motion pictures. Areas of learning will also include sound mixing and/or video editing services. This pathway culminates with an opportunity for students to take the SkillsUSA Television Video Production end of pathway assessment.	• 10.51810 - Audio-Video Technology and Film I • 10.51910 - Audio-Video Technology and Film II • 10.52010 - Audio-Video Technology and Film III	• Lovejoy High School • Mount Zion High School • Mundy's Mill High School • North Clayton High School
			Business Management and Administration Business and Technology Students will gain knowledge of business principles, the impact of financial decisions, and technology proficiencies demanded by business and industry. Emphasis is placed on developing proficient fundamental computer skills, working in a business environment, managing a business, and owning a business. Spread sheets, database software are utilized to teach students how to manage, analyze and share data. Communications, creating professional business documents, presentations, leadership development and teamwork are emphasized in the 2nd and 3rd level courses.		
Connects With Various Industries	4, 10, 12, 20		Education and Training Teaching as a Profession This pathway 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. The final course offers a field experience under the direct supervision of a certified teacher (mentor teacher). The student item 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.	• 07.44130 - Introduction to Business and Technology • 07.44100 - Business and Technology • 07.45100 - Business Communications	• Charles Drew High School • Forest Park High School • Jonesboro High School • Lovejoy High School • Morrow High School • Mundy's Mill High School • North Clayton High School
			Finance Entrepreneurship Pathway This pathway begins with an overview of business and technology skills, as well as business law, required for today's business environment. Entrepreneurship focuses on recognizing a business opportunity, starting a business, operating and maintaining a business. Students will be exposed to the development of critical thinking, problem solving and innovation in this pathway as they will either be the business owner or individuals working in a competitive job market in the future.		
Connects With Various Industries	4, 15, 16		Government and Public Administration Air Force Junior Reserve Officers Training Corps (AFJROTC) Pathway In this pathway, the Air Force Junior ROTC curriculum is designed to provide students with the knowledge and skills necessary to develop citizens of character dedicated to serving their community and nation. Program prepares high school cadets for leadership roles while making them aware of their rights, responsibilities and privileges as American citizens. *ONLY ROTC courses can be taken out of sequence. ROTC counts for pathway completion. Students can take the ASVAB. The ASVAB is a multiple aptitude battery that measures developed abilities and helps predict future academic and occupational success in the military. It is administered annually to more than one million military applicants, high school, and post-secondary students.	• 20.52810 - Early Childhood Care Education I • 20.42400 - Early Childhood Education II • 20.42500 - Early Childhood Education III	• Perry Career Academy • Offered to all students in High School
			Healthcare Science Allied Health and Medicine In this pathway, Therapeutic Services/Allied Health and Medicine: the concepts of human growth and development, interaction with patients and family members, health, wellness, and preventative care are evaluated, as well as the legal, ethical responsibilities of today's healthcare provider. Students become effective and efficient multi-skilled healthcare providers as they develop a working knowledge of various allied health opportunities.		
Connects With Various Industries	3		Healthcare Science Emergency Medical Responder (EMR) Emergency Medical Responder courses prepare the student to provide initial stabilizing care to the sick or injured prior to the arrival of Emergency Medical Services Professionals (EMTs) and to assist EMTs personnel in transporting patients for definitive care at an appropriate hospital/facility. Major areas of instruction include Introductory Medical Terminology and Anatomy & Physiology; Responder Safety; Incident Command; Blood-borne Pathogen Training; Basic Physical Assessment; and Treatment of Trauma and Medical Emergencies: Cardiopulmonary Resuscitation and the use of Automatic External Defibrillators (AEDs). The course is a blend of lecture, hands on/lab/learning, and practical scenario-based learning/testing. The course will include Healthcare Provider CPR/AED Certification from a National/American Heart Association or Red Cross, etc. If this course is also approved by the Georgia State Office of Emergency Medical Services and Trauma (SOE/ST), successful completion will allow the student to be eligible to take the National Registry of Emergency Medical Technicians (NREMT) Emergency Medical Responder (EMR) certification.	• 25.52100 - Introduction to Healthcare Science • 25.44000 - Essentials of Healthcare • 25.43700 - Allied Health and Medicine	• Charles Drew High School • Jonesboro High School
			Healthcare Science Health Informatics/Health Information Management/Medical Office In this pathway, courses will orient the student to health information management and working in a medical office. Topics include introducing students to skills and knowledge utilized in a medical office, the structure of healthcare in the United States, healthcare providers, and the structure and function of professional organizations.		
Connects With Various Industries	14, 23, 25		Hospitality and Tourism Culinary Arts Pathway In this pathway, students have the opportunity to learn a variety of skills to work in the restaurant and food industry from knife skills, cooking techniques, menu planning, food purchasing and costing, food safety and sanitation to garde manger. This pathway culminates with an opportunity for students to take the MAVCC Culinary end of pathway assessment or the NOCTI/American Culinary Federation end of pathway assessment and to potentially earn a junior culinary certificate.	• 20.53100 - Introduction to Culinary Arts • 20.53210 - Culinary Arts I • 20.53310 - Culinary Arts II	• Charles Drew High School • Jonesboro High School
			Human Services Barbering Pathway In this pathway, students are introduced to both fundamental theory and practices of the personal care professions including nail technicians, estheticians, barbers, and cosmetologists. Clinical activities are included in this pathway and involve individualized and precise designing, cutting, and styling of the hair as well as analysis and performance of professional services such as haircutting and styling, mustache and beard design, facials, shaves and scalp treatments. Students will earn credit hours toward the completion of the 1500 credit hours required by Georgia State Board of Barbers.		
Connects With Various Industries	2, 6, 9		Human Services Cosmetology Pathway In this pathway, students will learn skills to become nail technicians, estheticians, barbers, and cosmetologists. Completion of this pathway culminates with an opportunity for students to take the Skills Connect end of pathway assessment.	• 11.44600 - Introduction to Software Technology • 11.47100 - Computer Science Principles or 11.01900 - AP Computer Science Principles • 11.01600 - AP Computer Science A • 11.42700 - Embedded Computing (CCPS Virtual Academy)	• Forest Park High School • Jonesboro High School • North Clayton High School • Riverdale High School
			Information Technology Programming Pathway In this pathway, students begin to build linkages in Digital Technology occupations. Students gain exposure to foundational concepts in hardware, software, programming, web design, IT support, and networks. All are taught in a computer lab with hands-on activities and project focused tasks. High school students will learn to strategize, design and develop games and mobile and desktop applications that can be produced in the real world.		
Connects With Various Industries	22		Law, Public Safety, Corrections, and Security Law Enforcement Services/Forensic Science Pathway In this pathway, students will cover the essential skills and knowledge useful in any area in law enforcement. Law enforcement personnel have duties that range from controlling traffic to preventing and investigating crimes. Law enforcement officers maintain order, enforce laws and ordinances, issue traffic summonses, investigate accidents, present evidence in court, serve legal documents for the court system, and apprehend, arrest and process prisoners. This pathway also includes analysis into career in Security and Protective Services including the history, procedures and objectives.	• 43.45000 - Introduction to Law, Public Safety, Corrections & Security • 43.45100 - Criminal Justice Essentials • 43.45200 - Forensic Science and Criminal Investigations	• Charles Drew High School • Forest Park High School • Jonesboro High School • Lovejoy High School • Morrow High School • Mundy's Mill High School • North Clayton High School • Riverdale High School • Perry Career Academy
			Marketing Marketing and Management Pathway In this pathway, students 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. This pathway culminates with an opportunity for students to take the MBA Research "A"MSK Marketing Concepts" end of pathway assessment or the Oklahoma Consortium (MAVCC) "Marketing Education Manager Trainee" end of pathway assessment. Students may earn a credentialing certificate.		
Connects With Various Industries	2		Science, Technology, Engineering, Mathematics (STEM) Engineering and Technology Pathway In this pathway, students will continue to work on projects that lead to careers in architectural, biomedical, chemical, civil, computer science, electrical, environmental, industrial manufacturing, materials, mechanical, nuclear engineering, and engineering technology. Students build solid technical writing, comprehension, calculation, problem-solving and technical skills. This pathway culminates with an opportunity for students to take the NOCTI Engineering or SkillsUSA Engineering end of pathway assessment.	• 08.47400 - Marketing Principles • 08.44100 - Marketing and Entrepreneurship • 08.44200 - Marketing Management	• Forest Park High School • Morrow High School • Mundy's Mill High School • North Clayton High School
			Transportation, Distribution, and Logistics Flight Operations Pathway In this pathway, students learn the basics of aviation maintenance and flight operations. They will gain a fundamental knowledge base in aviation history, regulations, the principles of flight, aerospace careers and technologies, and basic aviation meteorology. Students will also learn to apply the basics of aircraft navigation and utilize efficient communications methods for safe aircraft operations.		

• 48.56100 - Introduction to Graphics and Design • 48.56200 - Graphic Design and Production • 48.57000 - Advanced Graphic Output Processes	• 48.56100 - Introduction to Graphics and Design • 48.56200 - Graphic Design and Production • 48.52800 - Advanced Graphic Design	• Charles Drew High School • Forest Park High School • Jonesboro High School • Lovejoy High School • Morrow High School • Mundy's Mill High School • North Clayton High School
• 07.44130 - Introduction to Business and Technology • 07.44100 - Business and Technology • 07.45100 - Business Communications	• 07.44130 - Introduction to Business and Technology • 06.41610 - Entrepreneurship	• Charles Drew High School • Forest Park High School • Lovejoy High School • Morrow High School • Mundy's Mill High School • Perry Career Academy
• 20.52810 - Early Childhood Care Education I • 20.42400 - Early Childhood Education II • 20.42500 - Early Childhood Education III	• 13.01100 - Examining the Teaching Profession • 13.01200 - Contemporary Issues in Education • 13.01300 - Teaching as a Profession	• Jonesboro High School • Morrow High School • Riverdale High School
• 07.44130 - Introduction to Business & Technology • 07.42600 - Financial Literacy • 07.41100 - Principles of Accounting I	• 07.44130 - Introduction to Business and Technology • 07.42600 - Financial Literacy • 07.43100 - Banking, Insurance, and Investing	• Riverdale High School • Morrow High School
• 28.01100 - Aerospace Leadership - Citizenship 100 • 28.01200 - Aerospace Leadership - Communications 200 • 28.01300 - Aerospace Science: Global & Cultural Studies • 28.01400 - Aerospace Leadership - Career Exploration 300 • 28.01500 - Aerospace Science: Space & Cyber Exploration 300 • 28.01600 - Aerospace Leadership - Management 400 • 28.01700 - Aerospace Science: Aviation History • 28.01800 - Aerospace Science: Survival • 28.01900 - Aerospace Science: Honors Ground School • 28.01910 - Aerospace Science: Science of Flight 200 • 28.01920 - Aerospace Science: Corps Management • 28.01940 - Aerospace Science: Senior Project	• 28.01100 - Aerospace Leadership - Citizenship 100 • 28.01200 - Aerospace Leadership - Communications 200 • 28.01300 - Aerospace Science: Global & Cultural Studies • 28.01400 - Aerospace Leadership - Career Exploration 300 • 28.01500 - Aerospace Science: Space & Cyber Exploration 300 • 28.01600 - Aerospace Leadership - Management 400 • 28.01700 - Aerospace Science: Aviation History • 28.01800 - Aerospace Science: Survival • 28.01900 - Aerospace Science: Honors Ground School • 28.01910 - Aerospace Science: Science of Flight 200 • 28.01920 - Aerospace Science: Corps Management • 28.01940 - Aerospace Science: Senior Project	• Charles Drew High School • Forest Park High School • Jonesboro High School • Lovejoy High School • Morrow High School • Mundy's Mill High School • North Clayton High School
• 25.52100 - Introduction to Healthcare Science • 25.44000 - Essentials of Healthcare • 25.43700 - Allied Health and Medicine	• 25.52100 - Introduction to Healthcare Science • 25.44000 - Essentials of Healthcare • 25.49700 - Applications of Health Information Technology	• Charles Drew High School • Jonesboro High School
• 25.52100 - Introduction to Healthcare Science • 25.44000 - Essentials of Healthcare • 25.49700 - Applications of Health Information Technology	• 25.52100 - Introduction to Healthcare Science • 25.44000 - Essentials of Healthcare • 25.45300 - Pharmacy Operations and Fundamentals	• Morrow High School • Riverdale High School
• 20.53100 - Introduction to Culinary Arts • 20.53210 - Culinary Arts I • 20.53310 - Culinary Arts II	• 20.53100 - Introduction to Culinary Arts • 20.53210 - Culinary Arts I • 20.53310 - Culinary Arts II	• Charles Drew High School • Jonesboro High School
• 12.54400 - Introduction to Personal Care • 12.42000 - Barbering II • 12.42100 - Barbering III	• 12.54400 - Introduction to Personal Care • 12.41000 - Cosmetology Services II • 12.41100 - Cosmetology Services III	• Forest Park High School • Jonesboro High School • North Clayton High School • Riverdale High School
• 11.44600 - Introduction to Software Technology • 11.47100 - Computer Science Principles or 11.01900 - AP Computer Science Principles • 11.01600 - AP Computer Science A • 11.42700 - Embedded Computing (CCPS Virtual Academy)	• 11.44600 - Introduction to Software Technology • 11.47100 - Computer Science Principles or 11.01900 - AP Computer Science Principles • 11.47200 - Programming, Apps, Games, and Society	• Jonesboro High School • Lovejoy High School • Morrow High School • Riverdale High School • CCPS Virtual Academy
• 43.45000 - Introduction to Law, Public Safety, Corrections & Security • 43.45100 - Criminal Justice Essentials • 43.45200 - Forensic Science and Criminal Investigations	• 43.45000 - (1) Introduction to Law, Public Safety, Corrections and Security (Preferred - Sophomore Year) • 43.46000 - (2) Essentials of Fire and Emergency Services (Junior Year) • 43.44000 - (3) Applications of Firefighting (Junior Year) * Juniors and seniors take program courses at Clayton County Fire & Emergency Services Training Academy * (4) 25.45000 - Emergency Medical Responder (EMR)* * (5) 25.46000 - Emergency Medical Technician (EMT)	• Charles Drew High School • Forest Park High School • Jonesboro High School • Lovejoy High School • Morrow High School • Mundy's Mill High School • North Clayton High School • Riverdale High School • Perry Career Academy
• 08.47400 - Marketing Principles • 08.44100 - Marketing and Entrepreneurship • 08.44200 - Marketing Management	• 08.47400 - Marketing Principles • 08.44100 - Marketing and Entrepreneurship • 08.44200 - Marketing Management	• Forest Park High School • Morrow High School • Mundy's Mill High School • North Clayton High School
• 21.42500 - Foundations of Engineering and Technology • 21.47100 - Engineering Concepts • 21.47200 - Engineering Applications	• 21.42500 - Foundations of Engineering and Technology • 21.47100 - Engineering Concepts • 21.47200 - Engineering Applications	• Charles Drew High School • Jonesboro High School • Mount Zion High School • Morrow High School
• 47.46000 - Fundamentals of Aerospace • 47.46800 - Flight Operations I • 47.46900 - Flight Operations II	• 47.46000 - Fundamentals of Aerospace • 47.46800 - Flight Operations I • 47.46900 - Flight Operations II	• Morrow High School • North Clayton High School
• 47.45000 - Automotive Technologies 1 • 47.45100 - Automotive Technologies 2 • 47.45200 - Automotive Technologies 3	• 47.45000 - Automotive Technologies 1 • 47.45100 - Automotive Technologies 2 • 47.45200 - Automotive Technologies 3	• Lovejoy High School
• 47.46000 - Fundamentals of Aerospace • 47.46800 - Flight Operations I • 47.46900 - Flight Operations II	• 47.46000 - Fundamentals of Aerospace • 47.46800 - Flight Operations I • 47.46900 - Flight Operations II	• Morrow High School • North Clayton High School



Georgia's Future Workforce

CTAE MIDDLE SCHOOL PATHWAY CONNECTIONS

Arts, AV Technology and Communications Career Cluster: Arts, AV Technology and Communications • 48.03100 - Broadcast & Graphic Communications, Grade 6 • 48.03200 - Introduction to Communications, Grade 7 • 48.03300 - Applications of Communications, Grade 8	Business Management & Finance Connections Career Cluster: Business, Management and Administration • 07.08200 - Foundations of Business Administration • 07.08400 - Foundations of Business Management • 07.08500 - Foundations of Investing and Finance	Career Development Connections Career Cluster: Business, Management and Administration • 32.02100 - Career Discovery, Grade 6 • 32.02200 - Career Awareness, Grade 7 • 32.02300 - Career Management, Grade 8	Computer Science Career Cluster: Information Technology • 11.01100 - Foundations of Secure Information Systems, Grade 6 • 11.01200 - Foundations of Computer Programming, Grade 7 • 11.01300 - Foundations of Interactive Design, Grade 8
Middle Schools • Kendrick Middle School • MD Roberts Middle School • Sequoyah Middle School	Middle Schools • Adamson Middle School • Jonesboro Middle School • North Clayton Middle School • Rex Mill Middle School • MD Roberts Middle School • Riverdale Middle School • Morrow Middle School	Middle Schools • Eddie White Middle School • Kendrick Middle School • Rex Mill Middle School • Morrow Middle School	Middle Schools • Eddie White Middle School • Forest Park Middle School • North Clayton Middle School • Jonesboro Middle School • Pointe South Middle School • Kendrick Middle School • Riverdale Middle School
Engineering & Technology Career Cluster: Science, Technology, Engineering and Mathematics (STEM) • 21.02100 - Exploring Engineering & Technology, Grade 6 • 21.02200 - Invention and Innovation, Grade 7 • 21.02300 - Technology Systems, Grade 8	Family & Consumer Science Career Cluster: Family & Consumer Science • 20.01100 - Family & Consumer Science, Grade 6 • 20.01200 - Family & Consumer Science, Grade 7 • 20.01300 - Family & Consumer Science, Grade 8	Healthcare Science Career Cluster: Healthcare Science • 25.03100 - Healthcare Diagnostics and Support Services • 25.03400 - Healthcare IT and Biotechnology • 25.03500 - Therapeutic Services and Applied Anatomy	SPECIAL POPULATIONS • 32.41400 - Coordinated Career Academic Education I • 32.41700 - Project Success I Taught by DES teachers to service and provide social and competitive learning opportunities for the students dose on IEP.
Middle Schools • Eddie White Middle School • Mundy's Mill Middle School • North Clayton Middle School • Pointe South Middle School	Middle Schools • Babb Middle School • Mundy's Mill Middle School • Pointe South Middle School	Middle Schools • Eddie White Middle School • Mundy's Mill Middle School	

Middle / High Feeder Schools

Charles Drew High School	Forest Park High School	Jonesboro High School	Lovejoy High School	Morrow High School	Mount Zion High School	Mundy's Mill High School	North Clayton High School	Riverdale High School
Babb MS Forest Park MS Rex Mill MS Riverdale MS Sequoyah MS	Babb MS Forest Park MS Rex Mill MS	Jonesboro MS Kendrick MS Mundy's Mill MS Roberts MS	Mundy's Mill MS White Academy 6-8	Adamson MS Morrow MS Rex Mill MS	Jonesboro MS Morrow MS Rex Mill MS Roberts MS	Mundy's Mill MS Pointe South MS	North Clayton MS Riverdale MS Sequoyah MS	Kendrick MS Pointe South MS Riverdale MS

