

Career, Technical, and Agricultural Education (CTAE)

CTAE courses help **all** students prepare for a competitive workforce and help reinforce the academic components of education. 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 immediate employment after high school. CTAE prepares Georgia's future workforce and industries to compete in the global marketplace. CTAE is a vital component of the total education of an individual. Our purpose is to equip these students with the fundamental academic, technical, and leadership skills they will need to be successful. Through partnership between education and industry, the CTAE curriculum will provide students with a solid foundation for their education and future careers.

What is a PATHWAY?

- A PATHWAY includes 3 courses that help prepare students for a particular field. It is recommended that students complete at least one pathway. Career Pathways are intended to provide a rational means of organizing and sequencing high school courses and providing every student a personalized and relevant course of study within a chosen career focus.

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

Animal/Mechanical Systems Pathway

02.47100 Basic Agricultural Science and Technology
01.42100 Agricultural Mechanics Technology 1
01.43200 Agricultural Animal Production and Management

Food Animal Systems Pathway

02.47100 Basic Agricultural Science and Technology
02.42100 Animal Science/Biotechnology
01.43200 Agricultural Animal Production & Management

Forest Mechanical Systems Pathway

02.47100 Basic Agricultural Science and Technology
03.45100 Forest Science
01.42100 Agricultural Mechanics Technology 1

Forestry/Wildlife Systems Pathway

02.47100 Basic Agricultural Science and Technology
03.45100 Forest Science
03.45300 Wildlife Management

Student Organization:

FFA

The **Business Management and Administration Career Cluster** involves planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations available in every sector of the economy.

Administrative/Information Support Pathway

07.44130 Introduction to Business and Technology
07.44100 Business and Technology
07.45100 Business Communications

Student Organizations:

Mock Trial
SkillsUSA

The **Architecture and Construction Career Cluster** includes careers in designing, planning, managing, and building structures.

Metals Technology Pathway

46.54500 Industry Fundamentals & Occupational Safety (1)
48.58100 Introduction to Metals (2)
48.55100 Welding I (3)
48.55200 Welding II (4)

Student Organization:

SkillsUSA

The **Health Science Career Cluster** involves the planning, managing, and providing of services that promote health, wellness, and diagnosis as well as treating injuries and diseases.

Therapeutic Services-Nursing Pathway

25.52100 Introduction to Healthcare Science
25.44000 Essentials of Healthcare
25.43600 Patient Care Fundamentals
25.43610 CNA

Student Organizations:

HOSA
SkillsUSA

The **Education and Training Career Cluster** involves the planning, managing, and providing of education and training services, and related learning support services.

Early Childhood Education Pathway

20.52810 Early Childhood Education I
20.42400 Early Childhood Education II
20.42500 Early Childhood Education III

Teaching as a Profession Pathway

13.01100 Examining the Teaching Profession
13.01200 Contemporary Issues in Education
13.01300 Teaching as a Profession Practicum

Student Organizations:

FCCLA
SkillsUSA

The Human Services Career Cluster involves providing and assisting individual, families, and communities in making informed decisions about their well being, relationships, and resources to achieve optimal quality of life for consumerism and good nutrition.

Nutrition & Food Science Pathway

20.41610 Food, Nutrition & Wellness
20.41400 Food for Life
20.41810 Food Science

Student Organization:
FCCLA

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

Engineering Pathway

21.42500 Foundations of Engineering and Technology
21.47100 Engineering Concepts
21.47200 Engineering Applications
21.46800 Engineering Internship

Student Organization:
TSA

The Transportation, Distribution, and Logistics Career Cluster encompasses 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.

Automotive Pathway

(Transportation Logistical Support)
47.53110 Basic Maintenance & Light Repair
47.53210 Maintenance & Light Repair 2
47.53310 Maintenance & Light Repair 3

Student Organization:
SkillsUSA

The rapidly changing digital world of the **Information Support and Services 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.

Programming Pathway

11.41500 Introduction to Digital Technology
11.47100 Computer Science Principals
11.47200 Programming, Games, Apps and Society

Incubator Edu

Incubator Edu is for current juniors and seniors. This is an awesome opportunity for real life learning experiences for our students while working with local professionals. Students will be put into groups of 3-5 over the first couple of weeks. After that, they will create a business model around an identified common problem as well as a solution they have developed to solve that problem for people. They will then test this solution (product/service) while continuing to develop the idea for their potential market. They will conduct real market research throughout the experience while also developing financial projections. At the end of the school year, they will pitch their business model to investors (sharks), and possibly receive funding to continue development. Another great thing about the program is that students will get 3 credits for completing it this school year. They will get credit for the entire **Marketing Management Pathway**. Incubator Edu is a great partnership for the Marketing Pathway because it covers all of the State standards and much more.

End of Pathway Assessment

After completing the three courses in each pathway, students will take an End of Pathway Assessment. Completing the assessment successfully will allow the student to earn a special Georgia Department of Education endorsed certificate and graduation cord.

Work-Based Learning (WBL)

WBL opportunities are structured experiences that integrate classroom learning with productive, structured work experiences related to a student's career goal.

Key Components

- School-based learning
- Work-based learning
- Connecting activities
- Provides paid or unpaid work experience
- Promotes a partnership between education and industry
- Integrates academic and technical education

How Work-Based Learning benefits students:

- increase career options and future employability
- experience the connection between education and real-life work skills
- experience potential careers in the workplace
- develop workplace responsibility, positive work habits, and attitudes
- provide opportunities for leadership development