

# Career Technical and Agricultural Education (CTAE) Pathways 2024-2025



**Agricultural, Food, & Natural Resources:** The Agriculture, Food, & 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.

**Forestry and Animal Science Systems**

Basic Agricultural Science  
Forest Science\*  
Animal Science and Biotechnology\*

**Horticulture and Animal Systems**

Basic Agricultural Science  
General Horticulture and Plant Science\*  
Animal Science and Biotechnology\*

**Horticulture and Forest Science**

Basic Agricultural Science  
Forest Science\*  
General Horticulture and Plant Science\*

**Veterinary Science**

Basic Agricultural Science  
Animal Science and Biotechnology\*  
Veterinary Science

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

**Carpentry**

Industry Fundamentals and Occupational Safety  
Introduction to Construction  
Carpentry I

**Electrical Pathway**

Industry Fundamentals and Occupational Safety  
Introduction to Construction  
Electrical I

**Fine Furniture/Cabinetmaking**

Fine Furniture/Cabinetmaking I  
Fine Furniture/Cabinetmaking II  
Fine Furniture/Cabinetmaking III

**Welding**

Industry Fundamentals and Occupational Safety  
Introduction to Metals  
Welding I

**Arts, A/V Technology, & Communications:** The Arts, A/V Technology, & Communications Career Cluster includes designing, producing, exhibiting, performing, writing, and publishing multimedia content. Technical skill areas include visual and performing arts, graphic design, journalism, and entertainment services.

**Audio-Video Technology and Film**

Audio-Video Technology and Film I  
Audio-Video Technology and Film II  
Audio-Video Technology and Film III

**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.

**Teaching as a Profession**

Examining the Teaching Profession  
Contemporary Issues in Education  
Teaching as a Profession

**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.

**General Medicine**

Introduction to Healthcare Science  
Essentials of Healthcare\*\*  
General Medicine

**Nursing**

Introduction to Healthcare Science  
Essentials of Healthcare\*\*  
Nursing

**Pharmacy**

Introduction to Healthcare Science  
Essentials of Healthcare\*\*  
Pharmacy Operations and Fundamentals

**Sports Medicine**

Introduction to Healthcare Science  
Essentials of Healthcare\*\*  
Sports Medicine\*

**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.

**Food and Nutrition**

Food, Nutrition, and Wellness  
Food for Life\*  
Food Science\*

**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.

**Programming**

Introduction to Software Technology  
Computer Science Principles\*\*\*  
Programming, Games, Apps, and Society\*\*\*

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

**Engineering and Technology**

Foundations of Engineering and Technology  
Engineering Concepts  
Engineering Applications

**Transportation, Distribution, and Logistics:** The Transportation, Distribution & 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.

**General Automotive Technology**

Automotive Technologies I  
Automotive Technologies II  
Automotive Technologies III

**Work-Based Learning:** Work-Based Learning prepares students for the world of work through a combination of academic and career-related courses and workplace learning. Fannin County High School juniors and seniors can earn one or two credits per semester and pursue work experience through the Work-Based Learning Program.

**CTAE Pathway Key:**

\*This CTAE Course counts toward satisfying the fourth science requirement and is approved by the Board of Regents as a fourth science.

\*\*This CTAE Course counts as two credits. Students who earn one unit of credit for the Essentials of Healthcare course will also receive one unit of credit for Human Anatomy and Physiology. This course is also a Course of Rigor.

\*\*\*This course meets fourth science requirement, meets fourth math requirement, OR two courses from this pathway will satisfy two years of sequenced foreign language course. This course is also a Course of Rigor.



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