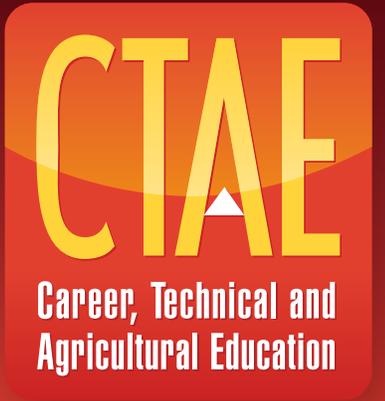




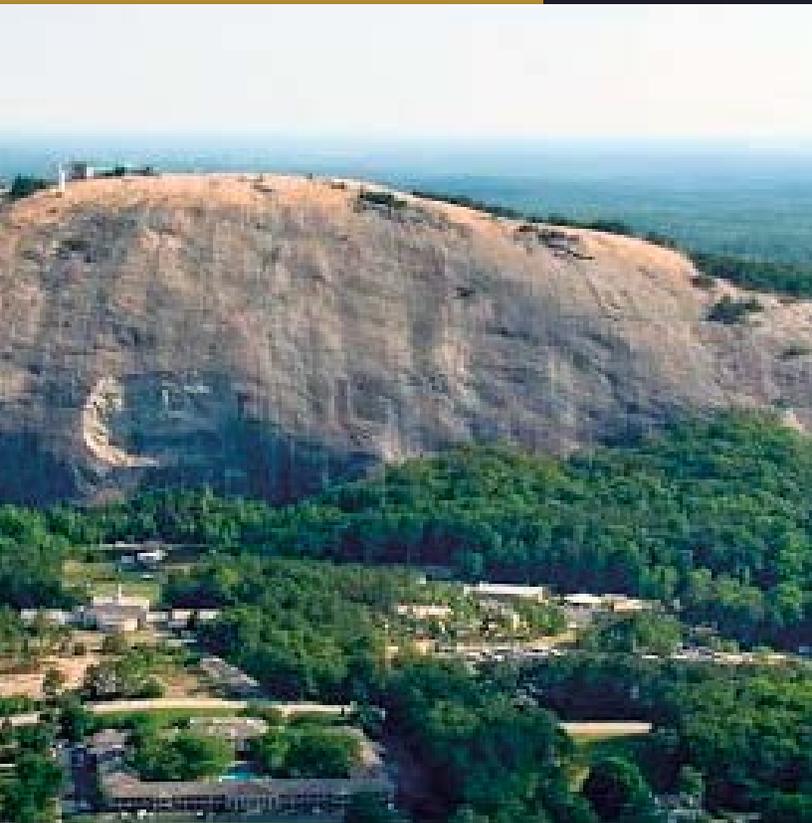
Richard Woods
Georgia's School Superintendent
"Educating Georgia's Future"



ANNUAL REPORT 2015

CTAE

Georgia's Pathways to
Future Workforce





Richard Woods
Georgia's School Superintendent
"Educating Georgia's Future"



Dear Friends and Colleagues,

Thank you for your interest in learning more about the Georgia Department of Education's Career, Technical, and Agricultural Education (CTAE) programs. All across Georgia, CTAE is opening up the future for students, connecting them with the real-world experiences and work-based learning opportunities they need to succeed. Students are learning about potential careers early, participating in professional organizations, earning industry certifications, earning college credit and studying in the field. Thousands of students are gaining skills for work and life and graduating with a Career Pathway certificate and a career plan – ready and prepared.

Put simply, CTAE is great news for students. It prepares them for the future, helps them see the relevance of their education and keeps them engaged – as evidenced by the stellar graduation rate for students who take CTAE courses. It's also great news for business and industry: CTAE programs connect schools with employers to produce the skilled graduates communities need to thrive. At the state and local levels, CTAE staff members work directly with leaders in the business community to make sure students are gaining skills that will serve them well in the workplace.

Georgia's CTAE offerings are transforming student outcomes and bolstering regional economies. I'm proud to present this annual report on our progress – we greatly appreciate your interest and support!

Sincerely,

Richard Woods

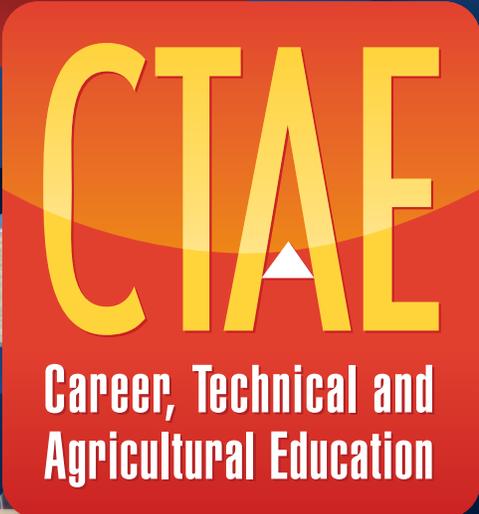
Georgia's School Superintendent

**Georgia Department of
Education Vision:
*Educating Georgia's Future***

"Educating Georgia's Future"

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Annual Report 2015

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FROM THE DIRECTOR OF CTAE...

Message from CTAE Director

A brief summary of the status and accomplishments of the secondary Career, Technical and Agricultural Education (CTAE) programs in the state of Georgia during the 2014-15 school year is contained in this annual report. The mission of CTAE is to educate Georgia's future workforce by engaging students in experiences that will prepare them for workplace success.



One of the main accomplishments in FY 2015 is the improved graduation rate of 94.9% for CTAE Concentrators which is an increase from 88.9% the previous year. CTAE Concentrators who took a sequence of three or more classes in a single program area graduated at a higher rate than all Georgia students. The graduation rate for all students statewide during this same year is 78.8%.

Some of the other accomplishments highlighted from the 2014-15 school year include increases in high school students earning industry credentials, student membership in Career Technical Student Organizations (CTSOs), increase in postsecondary options, and increase in STEM school/program certification. Industry credentials earned by high school students were 21,702 (18% increase from previous year). Membership was increased from last year in these specific CTSOs: Future Farmers of America (3%), and Technology Student Association (23%). In FY 15, a total of 11,412 students participated in postsecondary options and earned college credits (19.3% increase from previous year). Eight additional schools and/or programs within schools achieved STEM certification during 2014-15.

In order to fulfill the CTAE mission of educating Georgia's workforce, CTAE educators form partnerships with a variety of stakeholders. These partnerships are formed through relationships built on trust and communication. Many of the CTAE stakeholders include business & industry partners, CTAE Resource Network, Career and Technical Student Organizations, Technical College System of Georgia, University System of Georgia, GaDOE Division of Curriculum & Instruction, General Assembly, and SBOE Members. We value the partnerships of our stakeholders and know that educating Georgia's future workforce takes many people working together.

Sincerely,
Barbara M. Wall
Barbara M. Wall, Ed.D.

Director of Career, Technical and Agricultural Education

The mission of CTAE is to educate Georgia's future workforce by engaging students in experiences that will prepare them for workplace success.

It is through experiences that students are able to put academic knowledge to practice. Often, CTAE is the 'hook' that keeps students in school and serves as the impetus for them to graduate.
Dr. Barbara Wall, GaDOE CTAE Director

Georgia Career, Technical and Agricultural Education – Educating Georgia’s Future Workforce

CTAE At-A-Glance

Georgia Department of Education

2014-2015 Georgia Career, Technical and Agricultural Education

Secondary Education—Grades 6-12

CTAE Programs

- 180 Local School Systems

Total Georgia Student Enrollment

- 547,615 Students in Grades 9-12
- 432,900 Students in Grades 6-8

Student Enrollment in CTAE Courses

(Students enrolled in one or more CTAE courses)

- 60.28% of all Students in Grades 9-12 Statewide (330,094 students)
- 57.04% of all Students in Grades 6-8 Statewide (246,926 students)

CTAE Enrollment by Gender in Middle and High Schools

- Male 51.88%
- Female 48.12%

CTAE Enrollment by Race

- Black 40.85%
- Hispanic 11.14%
- White 42.41%
- Other 5.60%

CTAE High School Concentrators

(Students completing 3 or more classes in a Program Area)

- 111,077 Students

Graduation Rate for CTAE Concentrators

- 94.9%

Student Enrollment is the **unduplicated count**: Each student is counted once, although he/she could be enrolled in more than one CTAE program area.



Data Source: Georgia Department of Education Website (2014-2015 CTAE Enrollment), data tables provided by the CTAE division, and Perkins' IV Consolidated Annual Report FY 2014-2015.

Georgia's Department of Education Career, Technical and Agricultural Education (CTAE) is preparing Georgia's students for their next step after high school—college, the military, or immediately beginning a career. Georgia CTAE course offerings, and the new Educating Georgia's Future Workforce initiative, leverage partnerships with industry and higher education to ensure students have the skills they need to thrive in the workforce of the future. CTAE offers students over 130 career pathways within 17 Career Clusters modeled after the National Career Cluster Model which is utilized across the United States.

The state career and technical education system consists of programs offered at the middle and secondary school level by the CTAE Division of the Georgia Department of Education (GaDOE) and at the postsecondary level by the Technical College System of Georgia (TCSG) and Georgia Board of Regents. Guidelines of the Carl D. Perkins Career and Technical Education Improvement Act of 2006 (Perkins IV) align the CTAE program with the academic indicators of the No Child Left Behind Act.

The CTAE program is designed for students to experience the relevance in the workplace of what they are learning in the classroom. The curriculum includes national standards, CTAE standards, and Georgia Performance Standards, in addition to career development activities allowing students to make the connection between class activities and the workforce.

Over 246,900 middle school students and over 330,000 high school students participated in CTAE Career Cluster programs during the 2014-2015 school year. Georgia students begin learning about potential careers in elementary and middle school so that they are ready to choose a career pathway once they reach high school. In elementary school, students explore various career areas as integral parts of the curriculum each year. Designed to meet the needs of young adolescents (ages 10-15), middle schools bridge the gap between elementary and high school and provide students with an opportunity to learn about specific career areas in a safe, nurturing, and positive environment. By high school, students may choose an area of interest from the 17 Career Clusters to explore through classroom instruction, experiential laboratory activities, and the extra-curricular activities of the Career Technical Student Organizations (CTSOs). Students also have the opportunity to participate in the workplace through the Work-based learning (WBL) Program. During FY 2015, 16,118 students participated in the Work-based learning (WBL) program.

High school students develop a solid foundation in their selected career area, and many high school students graduate with industry certifications and college credits along with their high school diplomas. In FY 2015, industry certifications earned by CTAE students (21,702 students) increased by 18% as compared to FY 2014. In FY 2015, a total of 11,931 students participated in Move on When Ready postsecondary options and earned college credits, a 19% increase compared to FY 2014. Of the 11,931 students, 11,412 students were in Dual Enrollment classes and 519 students in Joint Enrollment classes.

In FY 2015, CTAE Concentrators who took a sequence of three or more classes in a single program area graduated at a higher rate than all Georgia students. The graduation rate was 94.9% for CTAE Concentrators and 78.8% for all students statewide.

Foundation Skills Required for Employment Success

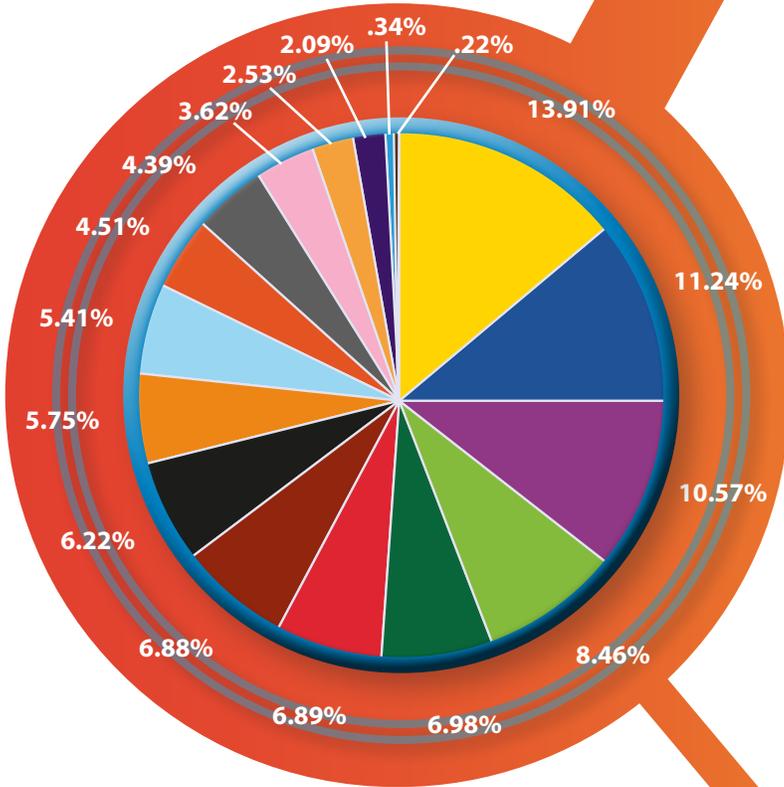
- Technical Skills
- Academic Foundations
- Communications
- Problem Solving and Critical Thinking
- Information Technology Applications
- Organizational Systems
- Safety, Health and Environment
- Leadership and Teamwork
- Ethics and Legal Responsibilities
- Career Development
- Entrepreneurship

The minds of our children are our greatest resource.
Governor Nathan Deal, State of Georgia

Chart: High School Students (Grades 9-12) Enrolled in each CTAE Program Area in 2014-2015

Percent of Total CTAE Enrollment
Total HS Enrollment 513,003

| | |
|---|--------|
| Business Management and Administration (BMA) | 66,269 |
| Finance (FIN) | 53,525 |
| Information Technology (IT) | 50,345 |
| Government and Public Administration (GPA) | 40,317 |
| Health Science (HHS) | 33,260 |
| Agriculture, Food and Natural Resources (AGED) | 32,801 |
| Human Services (HS)/Family and Consumer Sciences | 32,747 |
| Hospitality and Tourism (HT) | 29,616 |
| Science, Technology, Engineering & Mathematics (STEM) | 27,378 |
| Arts, AV/Technology and Communications (AAVTC) | 25,762 |
| Education and Training (ET) | 21,491 |
| Architecture and Construction (AC) | 20,932 |
| Marketing (MKTG) | 17,232 |
| Law, Public Safety, Corrections and Security (LPSCS) | 12,027 |
| Transportation, Distribution and Logistics (TDL) | 9,941 |
| Manufacturing (MANG) | 1,617 |
| Energy (NRG) | 1,027 |



Note: Student enrollment in each CTAE program area is an unduplicated count. A student could be counted more than once if enrolled in multiple programs of study..

Percent of Total CTAE Enrollment
Total MS Enrollment 496,361

| | |
|---|---------|
| Business Management and Administration (BMA) | 130,240 |
| Science, Technology, Engineering and Mathematics (STEM) | 94,239 |
| Human Services (HS) Family and Consumer Sciences | 54,007 |
| Agriculture, Food and Natural Resources (AGED) | 24,906 |
| Health Science (HHS) | 5,873 |
| Marketing (MKTG) | 5,369 |
| Arts, AV/Technology and Communications (AAVTC) | 3,299 |
| Law, Public Safety, Corrections and Security (LPSCS) | 1,208 |
| Architecture and Construction (AC) | 472 |
| Transportation, Distribution and Logistics (TDL) | 267 |

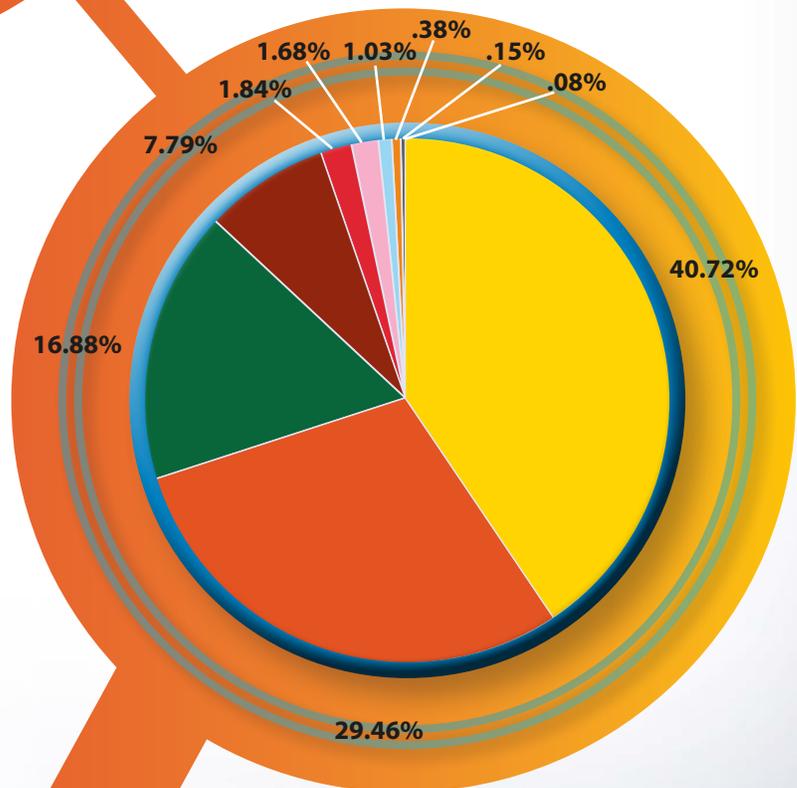


Chart: Middle School Students (Grades 6-8) Enrolled in each CTAE Program Area in 2014-2015

As Georgians—parents, educators, students, stakeholders—we are committed to the success of our students. As we continue to personalize, rather than standardize, education, the opportunities available for our kids will multiply.
Richard Woods, Georgia's School Superintendent

CTAE Achievements in 2014-2015

Graduation Rate for CTAE Concentrators

- ▶ CTAE graduation rate of 94.9% compares favorably with Georgia's overall graduation rate of 78.8% in FY 2015.
- ▶ CTAE graduation rate of 94.9% is 2.4% above the State Target (92.5%) in FY 2015.
- ▶ The FY 2015 CTAE graduation rate of 94.9% was higher than the FY 2014 CTAE graduation rate of 88.9%.

CTAE Move on When Ready Postsecondary Transitions

- ▶ In FY 2015 a total of 11,931 students participated in postsecondary options and earned college credits, compared to 10,001 students in FY 2014 (a 19% increase).
- ▶ A total of 11,931 high school students dual enrolled in college-level CTAE courses at Georgia's technical colleges or other colleges with technical divisions in FY 2015.
- ▶ A total of 519 high school students joint enrolled in college-level CTAE courses at Georgia's technical colleges or other colleges with technical divisions in FY 2015.

CTAE Professional Learning Participation

- ▶ 281 Georgia professional learning workshops were held during FY2015, with over 8,061 CTAE participating educators, and a total of 52,250 professional learning contact hours.

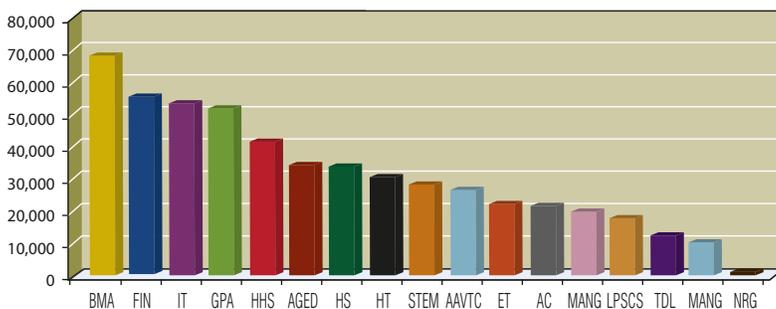
Georgia STEM (Science, Technology, Engineering, and Math) Program

- ▶ Over 1,500 educators participated in the CTAE annual STEM Forum, a state-wide program to facilitate CTAE, math, and science teachers to collaborate and to learn about STEM initiatives, methods to implement STEM strategies in the classroom, and the statewide STEM Georgia Teachers Academies.
- ▶ Over 1,000 Georgia schools are currently working towards STEM Certification from the Georgia Department of Education. During FY 2015, more than 30 schools earned STEM certification. These schools are required to have 50% female students in the STEM programs.

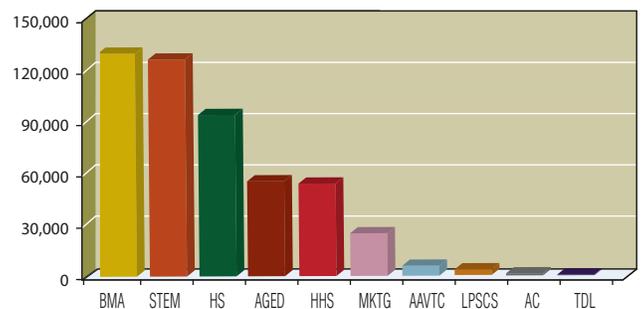
CTAE Program Achievements

- ▶ Both middle school and high school CTAE course enrollments increased in FY 2015 as compared to FY 2014.
- ▶ The total number of high school students enrolled in CTAE in FY 2015 (330,094 students) increased as compared to FY 2014 (326,153 students).
- ▶ The total number of middle school students enrolled in CTAE in FY 2015 (246,926 students) increased as compared to FY 2014 (245,930 students).
- ▶ 57% of all middle school and 60% of all high school students were enrolled in CTAE courses in FY 2015.
- ▶ In FY 2015, the number of CTAE students completing three or more classes in a program area (111,077 CTAE Concentrators) increased 4.6% as compared with 106,193 CTAE Concentrators in FY 2014.
- ▶ 37,339 pathway completers sat for the end of pathway assessments in FY 2015 as compared with 31,394 high school students in FY 2014 (a 19% increase).
- ▶ CTAE Career Clusters held 471 industry certifications in FY 2015 compared with 457 industry certifications in FY 2014 (a 3% increase).
- ▶ 21,702 high school students earned an industry credential in FY 2015 as compared with 18,352 high school students in FY 2014 (an 18% increase).
- ▶ Student unduplicated enrollment in Junior Reserve Officers Training Corps (JROTC) numbered 40,490 in FY 2015.
- ▶ Student membership in CTSOs increased during 2015 in the following Georgia Career Technical Student Organizations: Future Farmers of America (FFA) by 3%; Georgia Technology Student Association (GA TSA) by 23%.
- ▶ 16,118 students participated in Work-Based Learning (WBL) during FY 2015.
- ▶ 99.7% of employers would recommend the Georgia Youth Apprenticeship Program to other companies.
- ▶ 98.4% of employers participating in the Georgia Youth Apprenticeship Program agreed that students performed at the level expected, and 98.6% of employers agreed that students understand written instructions and materials at the level expected.
- ▶ 97.9% of employers agreed that students in the Georgia Youth Apprenticeship Program exhibit satisfactory communication (written and verbal) skills. 93.9% of employers agreed that students who participate in YAP exhibit satisfactory problem-solving skills, and 93.2% of employers agree that students demonstrate computer skills at the level expected.
- ▶ 97.7% of employers found the Georgia Youth Apprenticeship Program beneficial to their companies.

CTAE High School Program Enrollment: 2014-2015



CTAE Middle School Program Enrollment: 2014-2015



AGRICULTURE, FOOD AND NATURAL RESOURCES (AGED) 2014-2015



AGRICULTURE, FOOD and NATURAL RESOURCES (AGED) 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.

| | |
|--|---|
| Student Enrollment in Grades 9-12 (Unduplicated Count) | Total 32,801 Male 20,781 (63%) Female 12,020 (37%) |
| Student Enrollment in Grades 6-8 | 24,906 |
| Number of Industry-Certified Programs | <i>Note: Program certification processes are being explored.</i> |
| Number of CTAE Teachers | 427 High School Teachers 97 Middle School Teachers |



Agriculture, Food and Natural Resources Career Pathways

- ✦ *Agribusiness Systems*
- ✦ *Agriculture Energy Systems*
- ✦ *Agriculture Leadership in Food Product Processing*
- ✦ *Agricultural Mechanics and Metal Fabrications*
- ✦ *Agriculture Leadership in Animal Production*
- ✦ *Agriculture Leadership in Aquaculture*
- ✦ *Agriculture Leadership in Forestry*
- ✦ *Agriculture Leadership in Horticulture*
- ✦ *Agriculture Leadership in Plant Science*
- ✦ *Agricultural Mechanics and Electrical Systems*
- ✦ *Agricultural Mechanics Systems*
- ✦ *Agriscience Systems*
- ✦ *Animal Production and Processing*
- ✦ *Animal/Mechanical Systems*
- ✦ *Companion Animal Systems*
- ✦ *Environmental Agriculture Systems*
- ✦ *Equine Science*
- ✦ *Food Animal Systems*
- ✦ *Food Products and Processing Systems*
- ✦ *Forest Mechanical Systems*
- ✦ *Forest/Renewable Energy*
- ✦ *Forest and Animal Science Systems*
- ✦ *Forest Management Systems*
- ✦ *Forest/Natural Resources Management*
- ✦ *Forestry/Wildlife Systems*
- ✦ *Horticulture and Animal Systems*
- ✦ *Horticulture and Forest Science*
- ✦ *Horticulture/Mechanical Systems*
- ✦ *Landscape Management Systems*
- ✦ *Plant and Floral Design Systems*
- ✦ *Plant and Floriculture Systems*
- ✦ *Plant and Landscape Systems*
- ✦ *Plant Mechanical Systems*
- ✦ *Veterinary Science*

ARCHITECTURE AND CONSTRUCTION (AC) 2014-2015



Architecture and Construction Career Pathways

- ✪ *Architectural Drawing and Design**
- ✪ *Carpentry**
- ✪ *Electrical*
- ✪ *Fine Furniture-Cabinetmaking*
- ✪ *Heating, Ventilation, Air Conditioning & Refrigeration*
- ✪ *HVACR Electrical*
- ✪ *Industrial Maintenance*
- ✪ *Machining Operations*
- ✪ *Masonry*
- ✪ *Plumbing*
- ✪ *Sheet Metal**
- ✪ *Welding*

ARCHITECTURE and CONSTRUCTION (AC) Career Cluster includes careers in designing, planning, managing, and building structures.

*Industry Certified Program

| | |
|--|--|
| Enrollment in Grades 9-12 (Unduplicated Count) | Total 20,932 Male 17,881 (85%) Female 3,051 (15%) |
| Student Enrollment in Grades 6-8 | 472 |
| Number of Industry-Certified Programs | 63 |
| Number of CTAE Teachers | 277 High School Teachers 6 Middle School Teachers |



ARTS, AV/TECHNOLOGY AND COMMUNICATIONS (AAVTC) 2014-2015

| | |
|--|---|
| Enrollment in Grades 9-12 (Unduplicated Count) | Total 25,762 Male 14,686 (57%) Female 11,076 (43%) |
| Student Enrollment in Grades 6-8 | 3,299 |
| Number of Industry-Certified Programs | 51 |
| Number of CTAE Teachers | 300 High School Teachers 24 Middle School Teachers |



ARTS, AV/TECHNOLOGY and COMMUNICATIONS (AAVTC) Career Cluster includes designing, producing, exhibiting, performing, writing, and publishing multimedia content.



Arts, AV/Technology and Communications Career Pathways

- ✪ *Animation and Digital Media*
- ✪ *Audio-Video Technology and Film**
- ✪ *Graphic Communication**
- ✪ *Graphic Design*



BUSINESS, MANAGEMENT AND ADMINISTRATION (BMA) 2014-2015

| | |
|--|---|
| Enrollment in Grades 9-12 (Unduplicated Count) | Total 66,269 Male 35,934 (54%) Female 30,335 (46%) |
| Student Enrollment in Grades 6-8 | 130,240 |
| Number of Industry-Certified Programs | 115 |
| Number of CTAE Teachers | 1,018 High School Teachers 461 Middle School Teachers |

BUSINESS, MANAGEMENT and ADMINISTRATION (BMA) Career Cluster prepares students with computer skills for future college and career plans. Cluster skills mastered include planning, organizing, directing, and evaluating as well as owning and operating a successful business.

Business, Management and Administration Career Pathways

- ★ *Business and Technology*
- ★ *Entrepreneurship*
- ★ *Human Resources Management*



EDUCATION AND TRAINING (ET) 2014-2015

Education and Training Career Pathways

- ★ *Early Childhood Care and Education*
- ★ *Teaching as a Profession*

EDUCATION and TRAINING (ET) Career Cluster includes planning, managing, and providing education and training services as well as related learning support services.



| | |
|--|--|
| Enrollment in Grades 9-12 (Unduplicated Count) | Total 21,491 Male 2,390 (11%) Female 19,101 (89%) |
| Number of Industry-Certified Programs | 23 |
| Number of CTAE Teachers | 302 High School Teachers |

ENERGY (NRG) 2014-2015

**Energy
Career Pathways**

- ✦ *Energy Systems*
- ✦ *Energy and Power:
Generation, Transmission
and Distribution*



ENERGY (NRG) Career Cluster prepares individuals for careers in the designing, planning, maintaining, generating, transmission, and distribution of traditional and alternative energy.

| | |
|--|--|
| Enrollment in Grades 9-12 (Unduplicated Count) | Total 1,027 Male 850 (83%) Female 177 (17%) |
| Number of Industry-Certified Programs | <i>Note: Program certification processes are being explored.</i> |
| Number of CTAE Teachers | 30 High School Teachers |

FINANCE (FIN) 2014-2015

Finance Career Pathways

- ✦ *Advanced Accounting*
- ✦ *Business Accounting*
- ✦ *Financial Services*



FINANCE (FIN) Career Cluster focuses on money management, including planning, investing, and spending. Students gain career development skills for the finance world with opportunities that expand beyond basic business skills into financial literacy, banking, investing, insurance, and risk management.

| | |
|--|---|
| Enrollment in Grades 9-12 (Unduplicated Count) | Total 53,525 Male 29,266 (55%) Female 24,259 (45%) |
| Student Enrollment in Grades 6-8 | 126,685 |
| Number of Industry-Certified Programs | <i>Note: Program certification processes are being explored.</i> |
| Number of CTAE Teachers | 979 High School Teachers 450 Middle School Teachers |



GOVERNMENT AND PUBLIC ADMINISTRATION (GPA) 2014-2015

| | |
|--|---|
| Enrollment in Grades 9-12 (Unduplicated Count) | Total 40,317 Male 22,594 (56%) Female 17,723 (44%) |
| Number of Industry-Certified Programs | <i>Note: Program certification processes are being explored.</i> |
| Number of CTAE Teachers | 540 High School Teachers |

GOVERNMENT and PUBLIC ADMINISTRATION (GPA) 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.

Government and Public Administration Career Pathways

- ✪ JROTC – Air Force 10,773
- ✪ JROTC – Army 19,902
- ✪ JROTC – Marines 2,347
- ✪ JROTC – Navy 7,468
- ✪ Public Management and Administration



HOSPITALITY AND TOURISM (HT) 2014-2015

HOSPITALITY and TOURISM (HT) Career Cluster encompasses the management, marketing, and operations of restaurants, and other food services, lodging, attractions, recreation events, and travel related services.

| | |
|--|---|
| Enrollment in Grades 9-12 (Unduplicated Count) | Total 29,616 Male 14,011 (47%) Female 15,605 (53%) |
| Student Enrollment in Grades 6-8 | 55,432 |
| Number of Industry-Certified Programs | <i>Note: Program certification processes are being explored.</i> |
| Number of CTAE Teachers | 468 High School Teachers 152 Middle School Teachers |



Hospitality and Tourism Career Pathways

- ✪ Culinary Arts* 
- ✪ Hospitality, Recreation and Tourism
- ✪ Sports and Entertainment Marketing 

*Industry Certified Program

HEALTH SCIENCE (HHS) 2014-2015

Health Science Career Pathways

- ✦ *Biotechnology Research & Development*
- ✦ *Diagnostics Services/Clinical Lab*
- ✦ *Diagnostics/Phlebotomy*
- ✦ *Diagnostics/Non-Invasive Technology*
- ✦ *Health Informatics/Health Information Management/Medical Office*
- ✦ *Health Informatics/Health Information Technology*
- ✦ *Support Services*
- ✦ *Therapeutic Services – Allied Health and Medicine*
- ✦ *Therapeutic Services – Emergency Medical Responder*
- ✦ *Therapeutic Services – Exercise Physiology*
- ✦ *Therapeutic Services – Patient Care*
- ✦ *Therapeutic Services – Pharmacy*
- ✦ *Therapeutic Services – Public Health*
- ✦ *Therapeutic Services – Public Safety Communications*
- ✦ *Therapeutic Services – Sports Medicine*
- ✦ *Therapeutic Services – Surgical Technology*

HEALTH SCIENCE (HHS) Career Cluster includes planning, managing, and providing services in therapeutics, diagnostics, health informatics, support areas, and biotechnology research and development.



| | |
|---|---|
| Enrollment in Grades 9-12 (Unduplicated Count) | Total 33,260 Male 7,217 (22%) Female 26,043 (78%) |
| Student Enrollment in Grades 6-8 | 5,873 |
| Number of Industry-Certified Programs | 69 |
| Number of CTAE Teachers | 461 High School Teachers 24 Middle School Teachers |

HUMAN SERVICES (HS) FAMILY AND CONSUMER SCIENCES (FACS) 2014-2015

Human Services Career Pathways

- ✦ *Housing and Community Management*
- ✦ *Interiors, Fashion & Textiles*
- ✦ *Food and Nutrition*
- ✦ *Personal Care Services - Barbering*
- ✦ *Personal Care Services - Cosmetology*
- ✦ *Personal Care Services - Esthetics*
- ✦ *Personal Care Services - Nails*



HUMAN SERVICES (HS)/FAMILY AND CONSUMER SCIENCE 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.

| | | |
|--|--|--|
| Enrollment in Grades 9-12 (Unduplicated Count) | Total 32,747 Male 9,908 (30%) Female 22,839 (70%) | |
| Student Enrollment in Grades 6-8 (FACS) | 54,007 | |
| Number of Industry-Certified Programs | 20 | |
| Number of CTAE Teachers | 470 High School Teachers 152 Middle School Teachers | |

INFORMATION TECHNOLOGY (IT) 2014-2015

INFORMATION TECHNOLOGY (IT) Career Cluster engages students in hands-on learning to prepare for careers that create, use, modify, and engage technology skills in a rapidly changing digital world. Graphics, multimedia animation, web design, game and application development, networking, and computer repair are all possibilities.

Information Technology Career Pathways

- ✦ *Computer Science*
- ✦ *Cybersecurity*
- ✦ *Health Information Technology*
- ✦ *Health Support and Services*
- ✦ *Networking*
- ✦ *Programming*
- ✦ *Web and Digital Design*



| | |
|--|---|
| Enrollment in Grades 9-12 (Unduplicated Count) | Total 50,354 Male 24,657 (49%) Female 25,688 (51%) |
| Number of Industry-Certified Programs | <i>Note: Program certification processes are being explored.</i> |
| Number of CTAE Teachers | 841 High School Teachers |

LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY (LPSCS) 2014-2015



LAW, PUBLIC SAFETY, CORRECTIONS and SECURITY (LPSCS) Career Cluster prepares individuals for employment relating to emergency and fire services, legal services, protective services, and homeland security.

| | |
|--|---|
| Enrollment in Grades 9-12 (Unduplicated Count) | Total 12,027 Male 6,157 (51%) Female 5,870 (49%) |
| Student Enrollment in Grades 6-8 | 1,208 |
| Number of Industry-Certified Programs | <i>Note: Program certification processes are being explored.</i> |
| Number of CTAE Teachers | 128 High School Teachers 8 Middle School Teachers |

Law, Public Safety, Corrections and Security Career Pathways

- ✦ Corrections Services
- ✦ Fire and Emergency Services/
Emergency Medical Responder
- ✦ Fire and Emergency Services/
Firefighting
- ✦ Fire and Emergency Services/
Public Safety Communications
- ✦ Investigations
- ✦ Law Enforcement Services/
Criminal Investigations
- ✦ Law Enforcement Services/
Forensic Science
- ✦ Law Enforcement Services/
Public Safety Communications
- ✦ Legal Services/
Applications of the Law
- ✦ Legal Services/
Legal Administrative Services
- ✦ Security and Protective Services

MANUFACTURING (MANG) 2014-2015

Manufacturing Career Pathways

- ✦ Granite Technology
- ✦ Manufacturing
- ✦ Mechatronics

MANUFACTURING (MANG) 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.



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| Enrollment in Grades 9-12 (Unduplicated Count) | Total 1,617 Male 1,220 (75%) Female 397 (25%) |
| Number of Industry-Certified Programs | <i>Note: Program certification processes are being explored.</i> |
| Number of CTAE Teachers | 40 High School Teachers |



MARKETING (MKTG) 2014-2015

| | |
|--|--|
| Enrollment in Grades 9-12 (Unduplicated Count) | Total 17,232 Male 8,607 (50%) Female 8625 (50%) |
| Student Enrollment in Grades 6-8 | 5,369 |
| Number of Industry-Certified Programs | 58 |
| Number of CTAE Teachers | 244 High School Teachers 16 Middle School Teachers |

MARKETING (MKTG) Career Cluster generates the strategy that underlies advertising and promotional techniques, business communication, and business development. Marketing is the process of anticipating, managing, and satisfying consumers demand for products, services, and ideas.



Marketing Career Pathways

- ✦ *Fashion, Merchandising and Retail Management*
- ✦ *Marketing and Management*
- ✦ *Marketing Communications and Promotions*

SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS (STEM) 2014-2015

SCIENCE, TECHNOLOGY, ENGINEERING and MATHEMATICS (STEM) Career Cluster includes planning, managing, and providing scientific research and professional and technical services.



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| Enrollment in Grades 9-12 (Unduplicated Count) | Total 27,378 Male 22,188 (81%) Female 5,190 (19%) |
| Student Enrollment in Grades 6-8 | 94,239 |
| Number of Industry-Certified Programs | 45 |
| Number of CTAE Teachers | 333 High School Teachers 308 Middle School Teachers |



Science, Technology, Engineering and Mathematics Career Pathways

- ✦ *Electronics*
- ✦ *Engineering and Technology*
- ✦ *Engineering Drafting and Design*

TRANSPORTATION, DISTRIBUTION AND LOGISTICS (TDL) 2014-2015



Transportation, Distribution & Logistics Career Pathways

- ✦ Aircraft Maintenance
- ✦ Automobile Maintenance and Light Repair
- ✦ Automobile Service Technology
- ✦ Collision Repair/Non-Structural Analysis and Damage Repair
- ✦ Collision Repair/Painting and Refinishing
- ✦ Distribution and Logistics
- ✦ Flight Operations
- ✦ Marine Engine Technology
- ✦ Master Automobile Service Technology

TRANSPORTATION, DISTRIBUTION and LOGISTICS (TDL) 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.

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| Enrollment in Grades 9-12 (Unduplicated Count) | Total 9,941 Male 8,893 (89%) Female 1,048 (11%) |
| Student Enrollment in Grades 6-8 | 267 |
| Number of Industry-Certified Programs | 27 |
| Number of CTAE Teachers | 125 High School Teachers 5 Middle School Teachers |



COORDINATED CAREER ACADEMIC EDUCATION/PROJECT SUCCESS (CCA/PS) 2014-2015

| | |
|--|--|
| Enrollment in Grades 9-12 (Unduplicated Count) | Total 1,794 Male 780 (43%) Female 1,014 (57%) |
| Number of CTAE Teachers | 33 High School Teachers |

COORDINATED CAREER ACADEMIC EDUCATION/PROJECT SUCCESS

(CCA/PS) is working with students who are at risk of dropping out of high school based on the Carl Perkins Federal Regulations. The students who are targeted receive assistance from a designated teacher as they continue throughout their high school career.



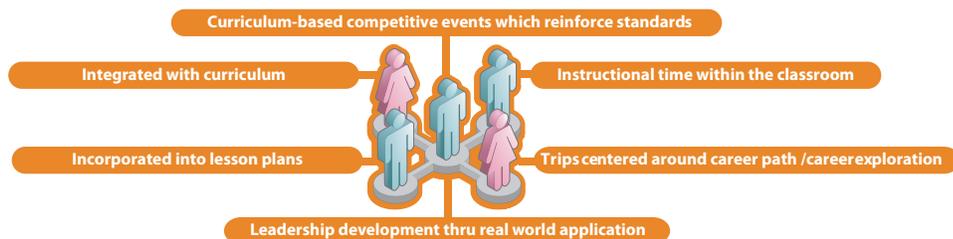
CAREER AND TECHNICAL INSTRUCTION (CTI) 2014-2015

The **CAREER AND TECHNICAL INSTRUCTION (CTI)** support service is designed to support students with disabilities enrolled in Career, Technical and Agricultural Education classes. The goal of the secondary (grades 9-12) level services is to provide these students with job-entry skills at the completion of the CTAE experience.

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| Enrollment in Grades 9-12 (Unduplicated Count) | Total 4,864 Male 3,226 (66%) Female 1,638 (34%) |
| Number of CTAE Teachers | 174 High School Teachers |

STUDENT ORGANIZATIONS

| Career Technical Student Organizations (CTSO) | CTAE Program | FY 2015 Membership |
|---|---|--------------------|
|  <p>Future Farmers of America (FFA) Future Farmers of America mission is to be a premier learning system that delivers agricultural, environmental, and leadership education programs and services.</p> | Agriculture, Food & Natural Resources | 38,894 |
|  <p>Georgia Technology Student Association (GA TSA) The Technology Student Association fosters personal growth, leadership, and opportunities in technology, innovation, design, and engineering. Members apply and integrate science, technology, engineering and mathematics concepts through co-curricular activities, complete events and related programs.</p> | Energy Manufacturing Science, Technology Engineering & Mathematics | 28,310 |
|  <p>Future Business Leaders of America (FBLA) The mission of FBLA is to bring business and education together in a positive working relationship through innovative leadership and career development programs.</p> | Business, Management & Administration Finance Information Technology | 25,532 |
|  <p>Family, Career and Community Leaders of America (FCCLA) The mission of FCCLA is to promote personal growth and leadership development through family and consumer sciences education. Focusing on the multiple roles of family member, wage earner and community leaders, members develop skills for life through: Character Development; Creative and Critical Thinking; Interpersonal Communication; Practical Knowledge; and Career Preparation.</p> | Education & Training Hospitality & Tourism Human Services/Family & Family Consumer Sciences | 16,300 |
|  <p>Health Occupations Students of America (HOSA) The mission of HOSA is to enhance the delivery of compassionate, quality health care 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 health care community.</p> | Health Science | 12,300 |
|  <p>Distributive Education Club of America (DECA) DECA prepares emerging leaders and entrepreneurs in marketing, finance, hospitality and management in high schools and colleges around the globe. DECA's core values are central to DECA's mission and purpose in classrooms around the world.</p> | Hospitality & Tourism Marketing | 11,225 |
|  <p>Georgia SkillsUSA SkillsUSA's mission is to help its members become world-class workers, leaders and responsible American citizens. SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. SkillsUSA helps each student excel.</p> | Architecture & Construction Arts, AV/Technology & Communications Human Services/Family & Family Consumer Sciences Law, Public Safety, Corrections & Security Transportation, Distribution & Logistics | 8,078 |
|  <p>Career and Technical Instruction (CTI) The mission of CTI is to provide meaningful leadership and employability experiences for students with disabilities through career technical and agricultural education courses.</p> | Coordinated Career Academic Education | 4,864 |



Georgia's CTSOs are co-curricular...including Student Organization Activities, Laboratory Instruction, and Classroom Instruction.

Career, Technical and Agricultural Education (CTAE), a division of the Georgia Department of Education, believes it is only possible to move education forward by working together. CTAE is working to foster relationships, strong communication, and meaningful collaboration in the best interest of Georgia's students.





Richard Woods,
Georgia's School Superintendent
"Educating Georgia's Future"

Manufacturing

Architecture and Construction

Law, Public Safety, Corrections and Security

Advanced Academics, Fine Arts, & World Languages

Government and Public Administration

CTAE

Career, Technical and Agricultural Education

Georgia Career, Technical and Agricultural Education
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