



Dr. John D. Barge  
State School Superintendent  
"Making Education Work for All Georgians"

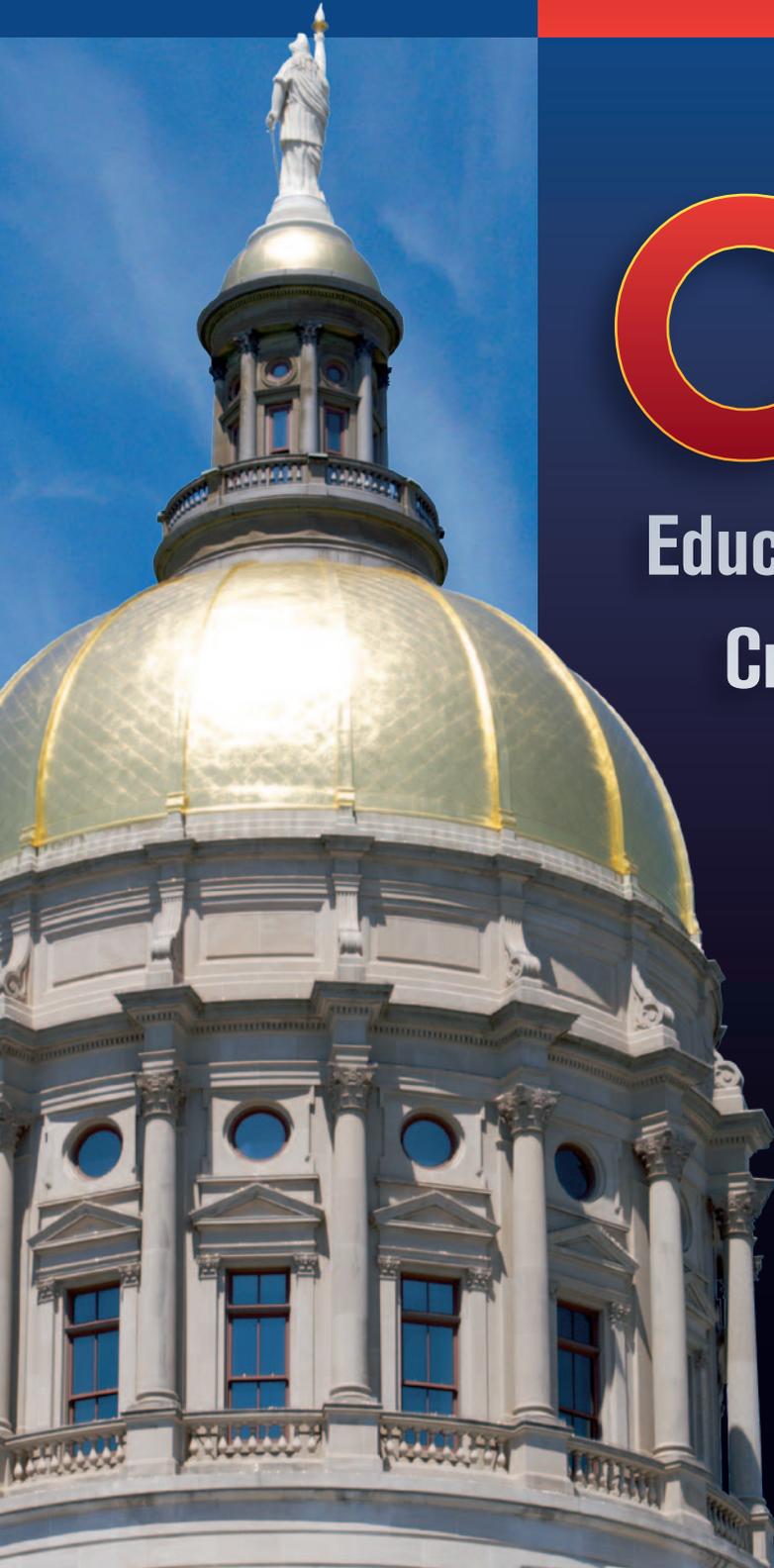
# CTAE

Career, Technical and  
Agricultural Education

## ANNUAL REPORT 2012

# CTAE

Education that  
Creates Employment  
Opportunities





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Dr. John D. Barge, State School Superintendent



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.

Employers demand it and students beg for it: relevant, experiential learning based on an area of interest that prepares each student for the world of work, whether or not they choose to attend college. That's what CTAE has been doing for years in Georgia. Through our Career Clusters and Pathways initiative, which launches this fall in every high school in the state, we are blending the core academics of our traditional high school classes with the real-world training of CTAE to give students the skills they need to get high-paying jobs. At a time when many college graduates are struggling to find jobs, employers in many fields are struggling to find capable workers. We are aligning our academic offerings with high-demand professions.

The result: A graduate ready for college and a career.

We will provide students – beginning with the elementary grades – with the preparation, career exploration and supports necessary for success in high school and beyond. They will learn about the multitude of careers and industries that are shaping Georgia's future long before they ever set foot in a high school. Students will see a direct connection between their chosen Career Cluster and the labor market.

But we didn't do this alone. We have worked alongside business and industry to develop the curriculum for our 17 Career Clusters. We are infusing the rigor of our academic classes with the CTAE practice of work-based learning and internships to prepare students for whatever they want to do after high school graduation. We also are increasing the number of students who graduate from high school with industry certifications. For example, through our new Microsoft IT Academy, students in every Georgia high school can obtain certifications in Microsoft programs like Word, Excel and PowerPoint, giving them a competitive edge in today's job market or the next step in their academic careers.

Through Career Clusters and Pathways, all students are not only prepared for their chosen careers, but also are provided with a real-life connection to what is being taught in core classes like mathematics, social studies, science and English. Students also will gain critical thinking and problem solving skills needed to prepare the next generation of our state's and nation's leaders.

By blending core academics with our CTAE programs, I believe we are creating a road map to success for all students. I am proud to provide more details about our initiatives through this annual report. Your continued interest in our work will be appreciated as we move forward in our vision for making education work for all Georgians.

Sincerely,

John D. Barge, Ed.D

**Georgia Department of  
Education Vision:**

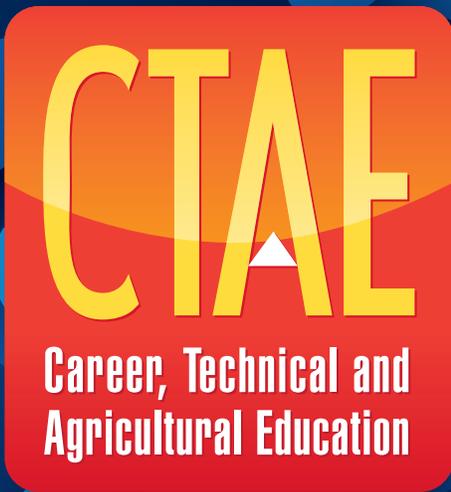
***Making Education Work for All Georgians***

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*"Making Education Work for All Georgians"*

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*The minds of our children are our greatest resource.*

Governor Nathan Deal, State of Georgia  
February 25, 2011

## FROM THE DIRECTOR OF CTAE...

### Message from CTAE Director



This annual report briefly summarizes the status and accomplishments of the secondary Career, Technical and Agricultural Education (CTAE) program in the state of Georgia during the 2011-2012 school year. A major purpose of CTAE is to create college and career ready programs that are relevant and rigorous for both college and career bound students.

Our career education programs are designed to assist students to become successful as they pursue their careers. The Georgia Department of Education CTAE division administers our programs throughout the 180 school systems in Georgia to ensure that all students who graduate from a high school in Georgia are college and career ready.

The success of our CTAE program is based on our belief that every student can and will benefit from being engaged in CTAE. The integration of academic standards into our program increases the likelihood of a CTAE student graduating from high school. During the 2012 school year, the graduation rate for CTAE concentrators was 87.20%, approximately 17.10 percentage points higher than Georgia's US Department of Education established target of 70.1%, or Georgia's overall graduation rate of 70%. The majority of CTAE programs experienced increased student enrollment in 2012. The Career and Technical Student Organizations (CTSOs) initiatives that enable students to display leadership and technical skills inside and outside the classroom grew by 14,266 students. Our Youth Apprenticeship Program continues to be recognized and appreciated by employers throughout the state. We continue to engage our business and industry partners in the creation of new curriculum standards. Career, Technical and Agriculture Education is truly making education work for all Georgians.

I want to use this opportunity to thank all local and state CTAE staff, parents, employers and students for their involvement and efforts in promoting CTAE related activities. To the members of the Georgia Legislature, members of the State School Board, and our State School Superintendent, thank you for supporting CTAE initiatives in Georgia. Your efforts are making the difference in the lives of students. CTAE will continue to be a catalyst for success in the life of Georgia's Youth.

Sincerely,

David Turner, Director  
Career, Technical and Agriculture Education

### CTAE Mission

*To prepare students to be successful as they transition to college and the workforce*

# Georgia Career, Technical and Agricultural Education...

## Education that Creates Employment Opportunities

### CTAE At-A-Glance

#### Georgia Department of Education

#### 2011-2012 Georgia Career, Technical and Agricultural Education

#### Secondary Education—Grades 6-12

##### CTAE Programs

- 180 Local School Systems

##### Total Georgia Student Enrollment

- 517,744 Students in Grades 9-12
- 426,520 Students in Grades 6-8

##### Student Enrollment in CTAE Classes

(Students enrolled in one or more CTAE course)

- 60.63% of all Students in Grades 9-12 Statewide (313,898 students)
- 51.70% of all Students in Grades 6-8 Statewide (220,519 students)

##### CTAE Enrollment by Gender in Middle and High Schools

- Male 51.98%
- Female 48.02%

##### CTAE Enrollment by Race

- Black 44.44%
- Hispanic 10.08%
- White 43.82%
- Other 5.66%

##### CTAE High School Concentrators

(3 or more classes in a Program Area)

- 95,157 Students

##### Graduation Rate for CTAE Concentrators

- 87.20%

##### Diploma Type Earned by CTAE High School

Completers (33,431 students)

- College Prep .22%
- Technical/Career .93%
- Dual Seal 3.83%
- High School Diploma 95.02%

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 (2011-2012 CTAE Enrollment), data tables provided by the CTAE division, and Perkin's IV Consolidated Annual Report FY 2011-2012.

Georgia's Career, Technical and Agricultural Education (CTAE) focuses on the end goal of meaningful and fulfilling employment for each student and meeting the state's needs for industry credentialed, highly-skilled employees. Georgia's 17 Career Clusters/Pathways provide a structure for organizing and delivering quality CTAE programs. Modeled after the National Career Clusters configuration, Georgia's 17 Career Clusters represent more than 90 career pathways to help students experience greater success in college and be a strong, viable employee or business owner in Georgia. New career pathways are being developed each year. As an organizing tool for curriculum design and instruction, the 17 Career Clusters provide essential knowledge and skills for the students' career pathways. This model serves as:

- A useful guide in developing programs of study that bridge secondary and postsecondary curriculum;
- An indicator of a range of career options for students' graduation plans of study;
- A method of allowing students to discover their interests and passions, empowering them to choose the educational pathway that may lead to success in high school and smooth the transition to college and career.

The 17 Career Clusters/Pathways encompass both secondary and postsecondary education and serve to strengthen and improve student transition from secondary to postsecondary education. Georgia's Career Clusters include:

*Architecture & Construction • Agriculture, Food & Natural Resources • Arts, Audio/Video Technology & Communications • Business Management & Administration • Education and Training • Energy • Finance • Government & Public Administration • Health Science • Hospitality & Tourism • Human Services • Information Technology • Law, Public Safety, Corrections & Security • Manufacturing • Marketing • Science, Technology, Engineering & Mathematics • Transportation, Distribution & Logistics*

CTAE pathway courses ensure that Georgia students graduate from high school, experience success in college and/or professional careers, and can compete in the job market with their peers throughout the United States and the world. CTAE pathway courses prepare Georgia students to join the highly-skilled, sustainable workforce that is globally competitive. Georgia business and industry partners indicated through a recent statewide survey that in order to prepare that workforce, coursework in the 17 Career Clusters must incorporate the following critical areas: **Academic Skills, Technical Skills, Strong Work Ethics, Job Ready Soft Skills, Real Work Experiences, and Problem Solving Skills.**

With an 87.20% graduation rate in FY 2012 for CTAE High School Concentrators, students who take a sequence of three or more CTAE classes in a single program area, graduate at a rate higher than the state high school graduation rate average of 69.75%. CTAE students are encouraged to graduate with industry-recognized credentials or a certificate at the postsecondary level, have marketable career skills, and are prepared for employment, further training, and/or postsecondary education.

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.

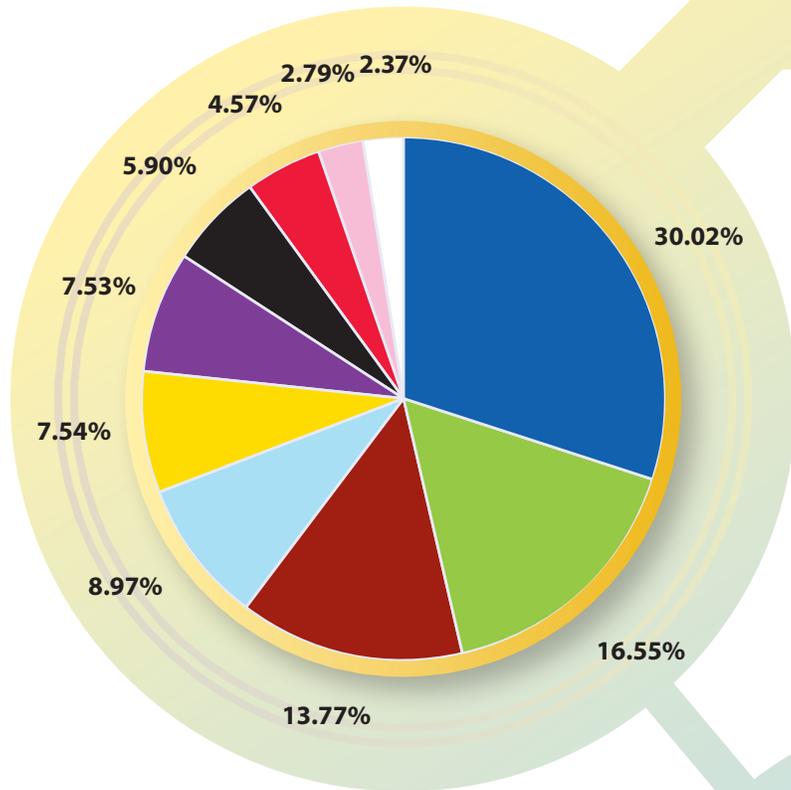
Programs of study under CTAE are designed to work for each student's success by:

- Providing student classes and hands-on labs, Career Technical Student Organizations (CTSOs), college classes, and on-the-job experiences;
- Delivering academic and CTAE content in a coordinated, non-duplicative progression of courses;
- Incorporating and aligning secondary and postsecondary education which provides the opportunity for secondary students to acquire postsecondary credits or certificate;
- Identifying and addressing current or emerging occupational trends.

The CTAE Career Pathways are designed and updated on an ongoing basis in concert with the Governor's Office of Workforce Development, State Workforce Investment Board, the state's colleges and universities, the Governor's education and workforce initiatives, and recognized industry credentialing groups. Georgia's Career Clusters/Pathways develop well-educated, technically trained, and highly competitive individuals ready for employment, further education, and successful careers.

**Through individualized Pathways to Success, all students have the resources to identify, explore, and attain their career and employment goals.**

**Chart: High School Students (Grades 9-12) Enrolled in each CTAE Program Area in 2011-2012**



**Percent of Total CTAE Enrollment**

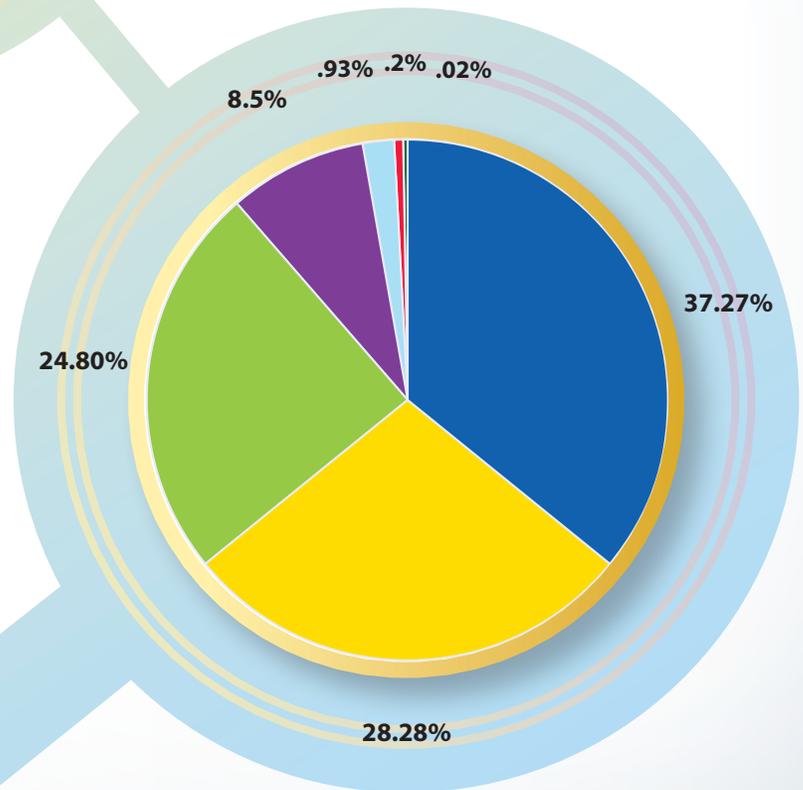
Business and Computer Science	120,475
Family and Consumer Science	66,411
Architecture, Construction, Communications & Transportation	55,245
Healthcare Science Education	35,988
Engineering and Technology Education	30,254
Agricultural Education	30,208
Education	23,693
Marketing, Sales and Services Education	18,349
Culinary Arts	11,178
Government and Public Safety	9,495

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.

**Percent of Total CTAE Enrollment**

Business and Computer Science	118,447
Engineering and Technology Education	89,883
Family and Consumer Sciences	78,817
Agricultural Education	26,998
Healthcare Science Education	2,969
Government and Public Safety	610
Marketing, Sales and Services Education	54

**Chart: Middle School Students (Grades 6-8) Enrolled in each CTAE Program Area in 2011-2012**



**CTAE prepares a highly-skilled, sustainable workforce that Georgia's business and industry need to remain globally competitive.**

## CTAE Achievements in 2011-2012

### Academic Achievements of CTAE Students

- ▶ **93.56%** of CTAE Concentrators who took the Georgia High School Graduation Test (GHS GT) met or exceeded state standards in **English/Language Arts** in FY 2012.
- ▶ **89.08%** of CTAE Concentrators who took the Georgia High School Graduation Test met or exceeded state standards in **Mathematics** in FY 2012.

### Graduation Rate for CTAE Concentrators

- ▶ **87% CTAE Concentrators graduated** with regular diplomas in FY 2012.
- ▶ **CTAE graduation rate of 87%** compares favorably with **Georgia's overall graduation rate of 70%** in FY 2012.

Georgia **CTAE concentrators scored within acceptable levels of the federal performance targets** in two categories of Academic Attainment in FY 2012.

	State FY 12 Target	Actual Performance
English/Language Arts (% passing GHS GT)	<b>88.7%</b>	<b>93.56%</b>
Mathematics (% passing GHS GT)	<b>60.8%</b>	<b>89.08%</b>
Graduation rate	<b>70.1%</b>	<b>87.20%</b>

### CTAE Postsecondary Transitions

- ▶ A total of **4,476** high school students **dual enrolled** in college-level CTAE courses at Georgia's technical colleges or other colleges with technical divisions.
- ▶ A total of **641** high school students **joint enrolled** in college-level CTAE courses at Georgia's technical colleges or other colleges with technical divisions.

### CTAE Teacher Achievements

- ▶ **227 professional development workshops**, including onsite, distant learning, and Webinar sessions, were held with a total attendance of **11,613 CTAE educators** throughout the state in FY 2012.

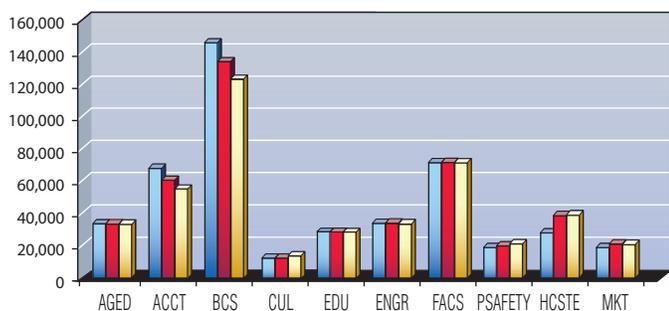
### Georgia STEM (Science, Technology, Engineering, and Mathematics) Program

- ▶ **60 teachers attended Georgia STEM Institutes** to learn what STEM professionals do, ways to strengthen subject content, and the integration of STEM instruction. **15 STEM industries and organizations** hosted the institutes.
- ▶ **Over 6,000 high school students, parents, and teachers participated in STEM Festivals** to inspire and motivate students to consider a STEM career.
- ▶ **Over 370 middle school girls participated in STEM workshops** to experience STEM-related activities, such as building spectrometers, examining forensic evidence, and designing solar-powered toys.

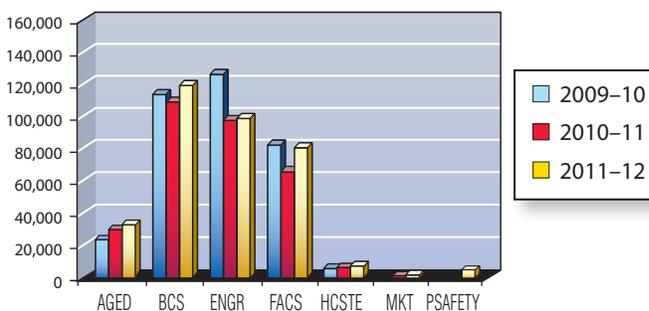
## CTAE Program Achievements

- ▶ **52%** of all middle school and **61%** of all high school students were **enrolled in CTAE courses** in FY 2012.
- ▶ **12,712 pathway completers** were tested with **end of pathway assessments**.
- ▶ **411 CTAE programs** were **industry certified** in FY 2012.
- ▶ **4,959 high school students earned an industry credential** in FY 2012 as compared with **6,976** high school students in FY 2011.
- ▶ **Student enrollment increased** in the following **high school CTAE programs** compared to FY 2011.
  - ◆ Culinary Arts (14%)
  - ◆ Government and Public Safety (12%)
  - ◆ Healthcare Science Education (1%)
- ▶ **Student enrollment increased in all middle school CTAE programs** compared to FY 2011.
  - ◆ Healthcare Science Education (56%)
  - ◆ Marketing, Sales and Services Education (46%)
  - ◆ Family and Consumer Sciences (28%)
  - ◆ Agriculture Education (11%)
  - ◆ Business & Computer Science (11%)
  - ◆ Engineering and Technology Education (3%)
- ▶ **Government and Public Safety program was established at the middle school level** in FY 2012 with 610 students participating.
- ▶ Student membership in **Career Technical Student Organizations numbered 159,404 in FY 2012, an increase of 14,266 students compared to FY 2011**.
- ▶ **Student membership increased during 2012** in the following Georgia Career Technical Student Organizations: Future Farmers of America (FFA), Distributive Education Club of America (DECA), Family, Career and Community Leaders of America (FCCLA), Health Occupations Students of America (HOSA), and SkillsUSA of Georgia.
- ▶ **100%** of employers would recommend the **Georgia Youth Apprenticeship Program** to other companies.
- ▶ **96%** of employers participating in the **Georgia Youth Apprenticeship Program** agreed that students performed at the level expected, and **96%** of employers noted this related to understanding written instruction.
- ▶ **95%** of employers found the **Georgia Youth Apprenticeship Program** beneficial to their company.

CTAE High School Program Enrollment: Three Year Trends



CTAE Middle School Program Enrollment: Three Year Trends



## CTAE Career Pathways – Education that Creates Employment Opportunities

According to the Georgia Workforce 2018 report,

- Employment will grow in occupations at every job preparation level. More than 167,000 new jobs will be created in occupations that require short-term on-the-job training; roughly 103,000 new jobs will be in occupations requiring a bachelor's degree. The remaining new jobs will be spread among the other job preparation categories, but most will be in occupations that require less than a bachelor's degree.
- Occupations requiring short-term or moderate-term on-the-job training will account for the majority of all job openings. The openings will come from both employment growth—the creation of new jobs—and from the need to replace workers who retire or leave an occupation permanently for some other reason.

The CTAE Career Pathways prepare Georgia students for employment in a wide variety of jobs...from training and credentials in a skilled area to a head-start in their college educations. **Through participation in CTAE, Georgia students are ready to pursue their careers and education pathways to employment.**

At the **elementary school level**, students learn about a variety of professions through career awareness activities. In middle school students explore careers to identify clusters of study relevant to their aspirations and abilities. **Middle school students** participate in a variety of career-related classes under CTAE, and by Grade 8 students work with their parents or parental designees and guidance specialists to create an individual career plan for high school. Under CTAE, **high school students** take a sequence of classes in their chosen career pathways and experience a variety of professional opportunities through job shadowing, apprenticeships, or internships. High school students plan and prepare for postsecondary study, specialized training or employment with input from parents or parental designees, educators, counselors, and mentors from the business community.

CTAE Career Pathways focus on 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**

CTAE in Georgia, like many other career and technical education programs around the nation, has worked in recent years to establish End of Pathway Assessments to ascertain the level of technical skill attainment by CTAE completers. Assessments are directly linked to industry validated standards. CTAE identifies existing assessment (or industry credentialing) opportunities that not only support the

mandates set forth in the Perkins IV legislation, but also support Georgia students in their quest to leave high school with valuable credentials. The state's Technical Skill Attainment inventory is comprised of several measurement components: national industry certifications, national occupational assessments, and state licensures and state developed assessments. **During FY 2012 a total of 12,712 CTAE students completed an end of pathway assessment. A total of 4,959 students earned a credential.**

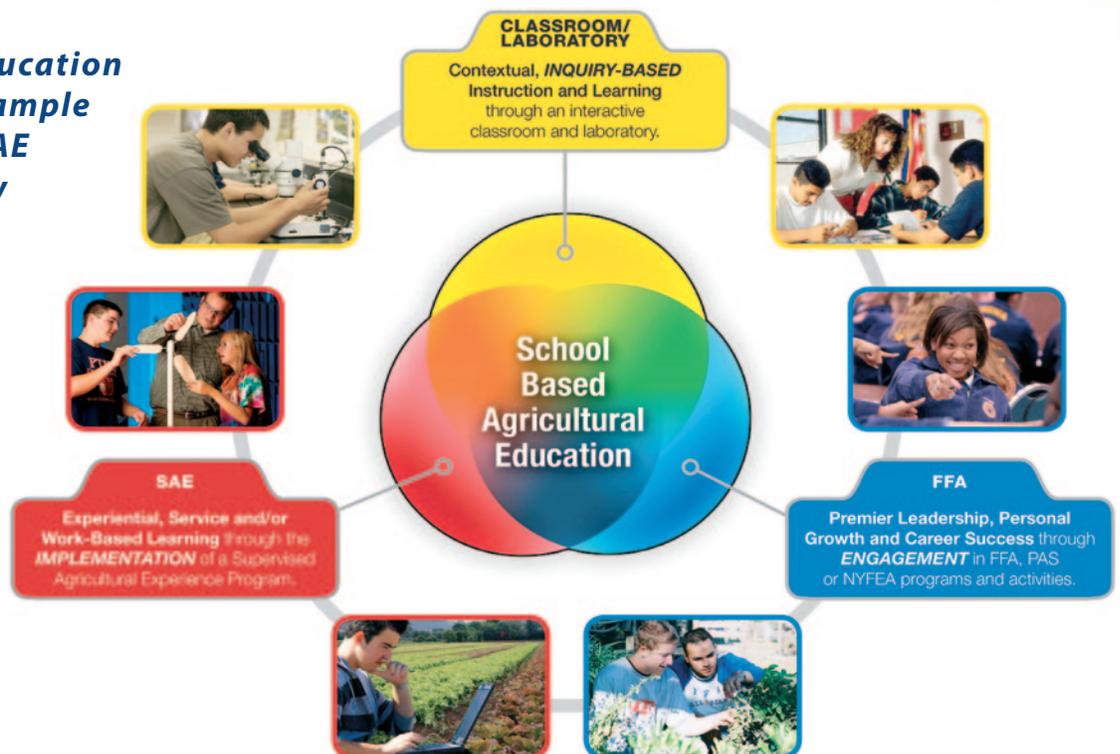
### Postsecondary Options Make Education Work for Georgia's Students

During the 2011-2012 school year a total of **5,111 students participated in postsecondary options** through Georgia Technical Colleges, including 4,476 students in Dual Enrollment classes and a total of **641 students in Joint Enrollment** classes that enhance their education in their identified Career Pathway. The benefits of Dual Enrollment and Joint Enrollment Programs include:

- Students who participate have increased high school completion
- Expanded course offerings are available to students beyond what the local system offers
- Students get a "jump start" on college completions
- Students are more prepared for college after high school
- Less remediation is required of these students
- Job skill acquisition prepares students to be work ready and employable
- Students who continue and complete postsecondary education and training earn higher wages

**Accel** is a non-need based program offered for students that wish to take college-level courses for credit toward both high school and college graduation requirements. Students may attend part-time or full-time. **Dual HOPE Grant** is a non-need based program for students seeking technical certificates or diplomas from the Technical College System of Georgia institutions. **Georgia's Move On When Ready** initiative requires an eligible 11th or 12th grade student to be full-time and take all courses through an eligible postsecondary institution. Students receive secondary and college credit for completing graduation and high school graduation requirements. Transition Career Partnership (formerly Education Career Partnerships) is designed to prepare students for college and career opportunities leading to postsecondary institutions for an industry recognized certification or licensure, an associate and/or higher college degree, and successful employment. The Georgia Department of Education, the Technical College System of Georgia, and the Georgia Board of Regents strengthen and expand seamless education opportunities to benefit Georgia high school students as they pursue their chosen careers. Students may graduate high school with college credits and in some cases Certificates, Diplomas, or Associate Degrees in a career area.

### Agricultural Education provides an example of essential CTAE Career Pathway Components



**AGRICULTURAL EDUCATION (AGED) 2011-2012**

<p><b>Enrollment by Gender in Grades 9-12</b> (Unduplicated Count)</p>	<p><b>Total</b> 30,208 <b>Male</b> 19,133 (63%) <b>Female</b> 11,075 (37%)</p>
<p><b>High School Student Enrollment in Agricultural Education in FY 2012</b> (Duplicated Count)</p>	<p><b>Pathway-Related Course Enrollment – 112,960</b></p> <ul style="list-style-type: none"> <li>• Plant Science/Horticulture <b>18,526 (16%)</b></li> <li>• Agriculture Mechanics <b>17,446 (16%)</b></li> <li>• Animal Science <b>16,832 (15%)</b></li> <li>• Agriscience <b>16,225 (14%)</b></li> <li>• Forestry &amp; Natural Resources <b>15,966 (14%)</b></li> <li>• Veterinary Science <b>14,115 (13%)</b></li> <li>• Agribusiness Management <b>13,850 (12%)</b></li> </ul> <p><b>Other AGED Courses</b></p> <ul style="list-style-type: none"> <li>• 1,199</li> </ul>
<p><b>Grade 6-8 Student Enrollment in Agricultural Education Courses in FY 2012</b></p>	<p><b>26,998</b></p>
<p><b>Number of Industry-Certified Programs</b></p>	<p><b>Note:</b> AGED programs adopted new industry certification standards and is in the process of programs becoming industry certified.</p>
<p><b>Number of CTAE Teachers FY 2012</b></p>	<p><b>340 High School Teachers</b> <b>96 Middle School Teachers</b></p>



**AGRICULTURAL EDUCATION (AGED)** leads to a wide variety of employment opportunities such as Agricultural Engineering, Agribusiness Management, Agriscience, Biotechnology, Turf Management, Landscaping, Environmental Science, Food Science, Forestry, and Wildlife Management, Agricultural Economist, and Veterinarian.



*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.*

**ARCHITECTURE, CONSTRUCTION, COMMUNICATIONS AND TRANSPORTATION (ACCT) 2011-2012**

**ARCHITECTURE, CONSTRUCTION, COMMUNICATIONS AND TRANSPORTATION (ACCT)** programs equip students for employment in architect/design, construction trades (plumbing, carpentry, masonry, sheet metal, electrical wiring), automotive services, aircraft support, flight operations, engineer drafting, graphic design, telecommunication specialist, web design, broadcast/video production, and surveying.



<p><b>Enrollment by Gender in Grades 9-12</b> (Unduplicated Count)</p>	<p><b>Total 55,245</b> <b>Male 40,465 (73%)</b> <b>Female 14,780 (27%)</b></p>
<p><b>High School Student Enrollment in Architecture, Construction, Communications &amp; Transportation Education in FY 2012</b> (Duplicated Count)</p>	<p><b>Pathway-Related Course Enrollment -- 83,304</b></p> <ul style="list-style-type: none"> <li>• Broadcast/Video Production <b>13,906 (17%)</b></li> <li>• Construction <b>12,324 (15%)</b></li> <li>• Transportation/Logistical Support – Ground Marine <b>9,965 (12%)</b></li> <li>• Transportation/Logistical Operations – Ground Marine <b>9,010 (11%)</b></li> <li>• Heating, Ventilation, Air Conditioning, and Refrigeration (HVACR) <b>8,642 (10%)</b></li> <li>• Graphic Communications <b>8,427 (10%)</b></li> <li>• Graphic Design <b>8,178 (10%)</b></li> <li>• Architectural Drawing &amp; Design <b>7,852 (9%)</b></li> <li>• Metals <b>3,937 (5%)</b></li> <li>• Flight Operations <b>441 (1%)</b></li> <li>• Collision Repair <b>439 (1%)</b></li> <li>• Aircraft Support <b>161 (less than 1%)</b></li> <li>• Marine Engine 22 <b>(less than 1%)</b></li> </ul> <p><b>Other ACCT Courses</b></p> <ul style="list-style-type: none"> <li>• <b>1,758</b></li> </ul>
<p><b>Number of Industry-Certified Programs</b></p>	<p><b>102</b></p>
<p><b>Number of CTAE Teachers FY 2012</b></p>	<p><b>574 High School Teachers</b></p>

*Over the next five years, a projected 82,000 jobs are to become available within the skilled trades in Georgia. The state's CTAE programs coupled with SkillsUSA make excellent inroads into exposing students and parents to the benefits of a career within the skilled trades.*



**BUSINESS AND COMPUTER SCIENCE (BCS) 2011-2012**

<b>Enrollment by Gender in Grades 9-12</b> (Unduplicated Count)	<b>Total</b> 120,475 <b>Male</b> 64,644 (54%) <b>Female</b> 55,831 (46%)
<b>High School Student Enrollment in Business and Computer Science in FY 2012</b> (Duplicated Count)	<b>Pathway-Related Course Enrollment – 197,465</b> <ul style="list-style-type: none"> <li>• Administration/Information Support 54,290 (27%)</li> <li>• Small Business Development 32,472 (16%)</li> <li>• Financial Mgmt. – Services 25,528 (13%)</li> <li>• Interactive Media 24,777 (13%)</li> <li>• Financial Mgmt. – Accounting 24,382 (12%)</li> <li>• Computing 18,017 (9%)</li> <li>• Computer Systems &amp; Support 17,126 (9%)</li> <li>• Computer Networking 873 (less than 1%)</li> </ul> <b>Other BCS Courses</b> <ul style="list-style-type: none"> <li>• 5,911</li> </ul>
<b>Grade 6-8 Student Enrollment in Business and Computer Science Courses in FY 2012</b>	118,447
<b>Number of Industry-Certified Programs</b>	120
<b>Number of CTAE Teachers FY 2012</b>	1,729 High School Teachers 452 Middle School Teachers

**BUSINESS AND COMPUTER SCIENCE (BCS)** career areas prepare students for employment such as business owner, entrepreneur, Chief Executive Officer (CEO), financial planner, accountant, and computer programmer or technician.

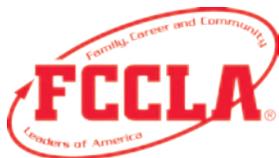


*Business and Computer Science programs in Georgia’s high schools provide students the opportunity to learn about the business community. Georgia’s economic prosperity depends upon an educated population to operate, initiate, and expand business in the 21st century. These programs in our high schools provide students the foundation to be the business leaders of tomorrow.*

— *Monica Anderson, Human Resources Manager  
BellSouth. Net, Inc.  
Atlanta, Georgia*

## CULINARY ARTS (CUL) 2011-2012

**CULINARY ARTS (CUL)** prepare students for employment such as sous chef, pastry chef, kitchen manager, garde manager, banquet chef, or restaurant entrepreneur.



<b>Enrollment by Gender in Grades 9-12</b> (Unduplicated Count)	<b>Total</b> 11,178 <b>Male</b> 4,293 (38%) <b>Female</b> 6,885 (62%)
<b>High School Student Enrollment in Culinary Arts in FY 2012</b> (Duplicated Count)	<b>Pathway-Related Courses Enrollment – 11,178</b>
<b>Number of Industry-Certified Programs</b>	<b>12</b>
<b>Number of CTAE Teachers FY 2012</b>	<b>123 High School Teachers</b>

*The Culinary Arts curriculum is based on American Culinary Federation Standards, and has articulations with Technical Colleges in Georgia, as well as many of the finest Culinary Arts schools in the nation.*

## EDUCATION (EDU ) 2011-2012

**EDUCATION (EDU)** programs prepare students for many diverse employment opportunities in Education, including school administrator, school counselor, elementary school teacher, special needs teacher, secondary teacher, post secondary teacher, career and technical teacher, preschool teacher, and paraprofessional.



<b>Enrollment by Gender in Grades 9-12</b> (Unduplicated Count)	<b>Total</b> 23,693 <b>Male</b> 2,877 (12%) <b>Female</b> 20,816 (88%)
<b>High School Student Enrollment in Education in FY 2012</b> (Duplicated Count)	<b>Pathway-Related Courses Enrollment – 24,003</b> <ul style="list-style-type: none"> <li>• Early Childhood Education <b>20,012 (83%)</b></li> <li>• Teaching as a Profession <b>3,991 (17%)</b></li> </ul>
<b>Number of Industry-Certified Programs</b>	<b>18</b>
<b>Number of CTAE Teachers FY 2012</b>	<b>216 High School Teachers</b>

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

**ENGINEERING AND TECHNOLOGY EDUCATION (ENGR) 2011-2012**

<b>Enrollment by Gender in Grades 9-12</b> (Unduplicated Count)	<b>Total</b> 30,254 <b>Male</b> 24,252 (80%) <b>Female</b> 6,002 (20%)
<b>High School Student Enrollment in Engineering and Technology Education in FY 2012</b> (Duplicated Count)	<b>Pathway-Related Courses Enrollment -- 38,898</b> <ul style="list-style-type: none"> <li>• Engineering 17,229 (44%)</li> <li>• Energy Systems 11,823 (30%)</li> <li>• Engineering Graphics &amp; Design 7,118 (18%)</li> <li>• Manufacturing 1,502 (4%)</li> <li>• Electronics 1,226 (3%)</li> </ul> <b>Other ENGR Courses</b> <ul style="list-style-type: none"> <li>• 418</li> </ul>
<b>Grade 6-8 Student Enrollment in Engineering and Technology Education Courses in FY 2012</b>	<b>89,883</b>
<b>Number of Industry-Certified Programs</b>	<b>47</b>
<b>Number of CTAE Teachers FY 2012</b>	<b>492 High School Teachers</b> <b>278 Middle School Teachers</b>



**ENGINEERING AND TECHNOLOGY EDUCATION (ENGR)** career pathways prepare students for the challenging post-high school careers and employment, including environmental, civil, mechanical or electronics technician, statistician, biomedical, industrial or chemical engineer, scientist or researcher.



*Technical Education is critical to our business. We see the need for technical competency growing at all levels within our organization.*

*— Jim Wallace,  
Director of Operations  
Selectron Georgia  
Suwanee, Georgia*

**FAMILY AND CONSUMER SCIENCES (FACS)** prepare students for employment in such areas as interior or fashion design, food scientist or technologist, dietician, nutritionist, social worker, and community planner.



**FAMILY AND CONSUMER SCIENCES (FACS) 2011-2012**

<b>Enrollment by Gender in Grades 9-12</b> (Unduplicated Count)	<b>Total</b> 66,411 <b>Male</b> 19,186 (29%) <b>Female</b> 47,225 (71%)
<b>High School Student Enrollment in Family and Consumer Sciences Education in FY 2012</b> (Duplicated Count)	<b>Pathway-Related Courses Enrollment – 31,350</b> <ul style="list-style-type: none"> <li>• Nutrition &amp; Food Science <b>27,064 (86%)</b></li> <li>• Interior &amp; Fashion Design <b>2,954 (10%)</b></li> <li>• Consumer Services <b>1,332 (4%)</b></li> </ul> <b>Other FACS Courses</b> 4,119
<b>Grade 6-8 Student Enrollment in Family and Consumer Science Courses in FY 2012</b>	78,817
<b>Number of CTAE Teachers FY 2012</b>	682 High School Teachers 187 Middle School Teachers

*All career pathways in Family and Consumer Sciences have career-related activities that prepare students for the school-to-career transition. The range of these activities varies from job shadowing, internships, and cooperative education to youth apprenticeship.*

**CAREER AND TECHNICAL INSTRUCTION (CTI) 2011-2012**

<b>Enrollment by Gender in Grades 9-12</b> (Unduplicated Count)	<b>Total</b> 5,259 <b>Male</b> 3,367 (64%) <b>Female</b> 1,892 (36%)
<b>Number of CTAE Teachers FY 2012</b>	172 High School Teachers



The **CAREER AND TECHNICAL INSTRUCTION (CTI)** program is designed to support students with disabilities enrolled in Career, Technical and Agricultural Education classes. The CTI program provides students with disabilities at the secondary level entry-level job skills in broad or specific occupation clusters. CTI offers a Fall Leadership Conference that focuses on students with disabilities in CTAE classes in high schools throughout Georgia. The purpose of the program is to reward students showing the greatest improvement in career and work adjustment skills and to recognize the achievement of these students in their Career, Technical and Agricultural Education programs.



**GOVERNMENT AND PUBLIC SAFETY (PSAFETY) 2011-2012**

<b>Enrollment by Gender in Grades 9-12</b> (Unduplicated Count)	<b>Total 9,,495</b> <b>Male 4,923 (52%)</b> <b>Female 4,572 (48%)</b>
<b>High School Student Enrollment in Government and Public Safety in FY 2012</b> (Duplicated Count)	<b>Pathway-Related Courses Enrollment – 9,848</b> • Law and Justice <b>9,495 (98%)</b> • Homeland Security & Emergency Services <b>353 (2%)</b>
<b>Grade 6-8 Student Enrollment in Government and Public Safety in FY 2012</b>	<b>610</b>
<b>Number of CTAE Teachers FY 2012</b>	<b>119 High School Teachers</b> <b>4 Middle School Teachers</b>



**GOVERNMENT AND PUBLIC SAFETY (PSAFETY)** offer a wide variety of career opportunities for students in two pathways-- Homeland Security and Emergency Services and Law and Justice, leading to employment in law enforcement and fire safety.



*There will always be a need for qualified professionals in the Government and Public Safety career area, and Georgia schools are helping to prepare a dedicated public safety workforce for the future.*

**COORDINATED CAREER ACADEMIC EDUCATION/PROJECT SUCCESS (CCAЕ/PS) 2011-2012**

<b>Enrollment by Gender in Grades 9-12</b> (Unduplicated Count)	<b>Total 2,484</b> <b>Male 1,358 (55%)</b> <b>Female 1,126 (45%)</b>
<b>Number of CTAE Teachers FY 2012</b>	<b>28 High School Teachers</b>

**COORDINATED CAREER ACADEMIC EDUCATION/PROJECT SUCCESS (CCAЕ/PS)** provides educational and occupational services to assist students in becoming responsible, productive citizens. Through participation in the CCAЕ/PS support services, students in grades 9-12 learn about the world of work and employment skills they need to be successful. Throughout their school years, students need the opportunity to development a reservoir of information, attitudes, and experiences that serve as a substantial base for decision making when they reach career decision points in their lives.

## HEALTHCARE SCIENCE EDUCATION (HCSTE) 2011-2012

**HEALTHCARE SCIENCE EDUCATION (HCSTE)** careers require various education and licensing requirements. Employment in HCSTE areas include registered nurse, physician assistant, family doctor, emergency medical service technician, lab technician, physical therapist, and biotechnology researcher.



<b>Enrollment by Gender in Grades 9-12</b> (Unduplicated Count)	<b>Total</b> 35,988 <b>Male</b> 6,400 (18%) <b>Female</b> 29,588 (82%)
<b>High School Student Enrollment in Healthcare Science Education (HCSTE) Education in FY 2012</b> (Duplicated Count)	<b>Pathway-Related Course Enrollment – 148,095</b> <ul style="list-style-type: none"> <li>• Therapeutic Services – Nursing <b>26,621 (18%)</b></li> <li>• Therapeutic Services – Medical <b>25,946 (18%)</b></li> <li>• Therapeutic Services – Emergency <b>18,359 (12%)</b></li> <li>• Health Informatics <b>18,033 (12%)</b></li> <li>• Biotechnology Research &amp; Development <b>18,007 (12%)</b></li> <li>• Physical Medicine <b>17,847 (12%)</b></li> <li>• Diagnostic Services <b>17,655 (12%)</b></li> <li>• Personal Care Services – Cosmetology <b>5,627 (4%)</b></li> </ul>
<b>Grade 6-8 Student Enrollment in Healthcare Science Education Courses in FY 2012</b>	<b>2,969</b>
<b>Number of Industry-Certified Programs</b>	<b>54</b>
<b>Number of CTAE Teachers FY 2012</b>	<b>410 High School Teachers (Healthcare)</b> <b>83 High School Teachers (Cosmetology)</b> <b>15 Middle School Teachers</b>

***By the year 2014, health services will account for one in every twelve jobs in Georgia. It is projected to increase by almost 100,000 jobs, placing its employment levels at more than 420,000 jobs by 2014.***

*Georgia Workforce Trends, an Analysis of Long-term Employment Projections to 2014 Georgia Dept. of Labor Michael Thurmond, Commissioner. Published by Workforce Information & Analysis Division*

**MARKETING, SALES AND SERVICES EDUCATION (MKT) 2011-2012**



**MARKETING, SALES AND SERVICES EDUCATION (MKT)** careers include employment in advertising sales, public relations specialist, community association manager, technical sales representative, real estate broker, marketing manager, customer service specialist, or supervisor.



<b>Enrollment by Gender in Grades 9-12</b> (Unduplicated Count)	<b>Total</b> 18,349 <b>Male</b> 8,424 (46%) <b>Female</b> 9,925 (54%)
<b>High School Student Enrollment in Marketing, Sales and Services Education (MKT) in FY 2012</b> (Duplicated Count)	<b>Pathway-Related Course Enrollment – 58,634</b> <ul style="list-style-type: none"> <li>• Marketing &amp; Management <b>13,034 (22%)</b></li> <li>• Fashion Marketing <b>12,207 (21%)</b></li> <li>• Sports &amp; Entertainment Marketing <b>12,128 (21%)</b></li> <li>• Travel Marketing &amp; Lodging Management <b>10,760 (18%)</b></li> <li>• Marketing Communication &amp; Promotion <b>10,505 (18%)</b></li> </ul> <b>Other MKT Courses</b> <ul style="list-style-type: none"> <li>• 232</li> </ul>
<b>Grade 6-8 Student Enrollment in Marketing, Sales and Services Education (MKT) Courses in FY 2012</b>	54
<b>Number of Industry-Certified Programs</b>	58
<b>Number of CTAE Teachers FY 2012</b>	239 High School Teachers 3 Middle School Teachers

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

**JUNIOR RESERVE OFFICERS TRAINING CORPS (JROTC) 2011-2012**

<b>High School Student Enrollment in JROTC-Related Courses in FY 2012 by Type of Service</b>	<ul style="list-style-type: none"> <li>• U.S. Army <b>18,459</b></li> <li>• U. S. Air Force <b>9,328</b></li> <li>• U.S. Navy <b>7,163</b></li> <li>• U.S. Marines <b>2,166</b></li> </ul>
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**JUNIOR RESERVE OFFICERS TRAINING CORPS (JROTC)** offers the opportunity for high school students to enroll in a leadership/citizenship program coordinated under the umbrella of the Career, Technical and Agricultural Education Division of the Georgia Department of Education. Any three sequenced courses in one of the JROTC branches (U. S. Army, U.S. Air Force, U.S. Navy, or U.S. Marines) satisfy the requirements for a career pathway. The JROTC curriculum satisfies national and Georgia Performance Standards (GPS) requirements. JROTC instructors in Georgia are required to secure a Georgia teaching "Permit" through the Professional Standards Commission in addition to their military credential. The JROTC program emphasizes academic content; teaches leadership skills; assists students in life skills and career opportunities; reinforces reading, math, and writing skills; and stresses multi-disciplined presentations, models, trips, and other educational formats. Federal law establishes JROTC units fairly and equitably across the United States. **Of the 37,116 students enrolled in JROTC courses 57% are male and 43% are female.**

# STUDENT ORGANIZATIONS

Career Technical Student Organizations (CTSO)	CTAE Program	FY 2012 Membership
 <p><b>Future Farmers of America (FFA)</b> is an integral component of the Agricultural Education program. It is the student development and leadership application piece for the program. The FFA offers a variety of experiential learning opportunities through competitive proficiency awards and career development events. <b>Mission:</b> <i>To make a positive difference in the lives of students by developing their potential for premier leadership, personal growth and career success through agricultural education.</i></p>	Agriculture	34,244
 <p><b>Georgia SkillsUSA</b> members participate in local, state, and national activities provided through trade and industrial, technical, and health occupations courses and programs. The organization provides many opportunities for leadership development and skills training. Competition in over 70 leadership, health occupations, occupationally related, and trade, industrial, and technical contests is offered at the region and state levels, culminating with the SkillsUSA Championships. <b>Mission:</b> <i>To empower its members to become world-class workers, leaders, and responsible American citizens.</i></p>	Architecture, Construction, Communication & Transportation Cosmetology Government & Public Safety	8,247
 <p><b>Future Business Leaders of America (FBLA)</b> is a student organization for all middle and high school students participating in business programs. FBLA provides opportunities for students to develop vocational and career-supportive competencies. Participation in FBLA activities promotes civic and personal responsibility; helps students develop business leadership skills and establish career goals; and prepares them for useful citizenship and productive careers. <b>Mission:</b> <i>To bring business and education together in a positive working relationship through innovative leadership and career development programs.</i></p>	Business and Computer Science	25,953
 <p><b>Georgia Technology Student Association (GA TSA)</b> promotes technology education as a means of preparing students for a dynamic world, inviting them to become critical thinkers, problem solvers, and technologically literate leaders. GA TSA prepares its members to be successful leaders and responsible citizens in a technological society through co-curricular activities with the technology education program which develop communication, leadership, and competitive skills. Members apply <b>STEM concepts</b> through co-curricular programs. GA TSA has consistently had the largest student membership and attendance at conferences in the country. <b>Mission:</b> <i>To foster leadership and opportunities in technology, innovation, design, and engineering.</i></p>	Engineering & Technology	26,430
 <p><b>Family, Career and Community Leaders of America (FCCLA)</b> is a national student organization that helps young men and women become leaders and address important personal, family, work, and social issues through family and consumer sciences education. Through cooperative and competitive programs, FCCLA members develop skills for life including character development, creative and critical thinking, interpersonal communication, practical knowledge, and career preparation. <b>Mission:</b> <i>To promote personal growth and leadership development through Family and Consumer Sciences education.</i></p>	Family & Consumer Sciences Culinary Arts Education	35,906
 <p><b>Health Occupations Students of America (HOSA)</b> is offered through the healthcare programs and is a co-curricular component that compliments the classroom experience along with work based learning opportunities. Employment in the healthcare industry provides students with a financially stable and rewarding career of service to others. Having a chance to begin this quest while still in middle or high school allows student to prepare for their future. <b>Mission:</b> <i>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.</i></p>	Healthcare Science Technology	11,690
 <p><b>Distributive Education Club of America (DECA)</b> is specifically designed to provide activities for students to learn marketing, management, and entrepreneurial skills that will prepare them to pursue a career in the field of marketing. DECA enhances co-curricular education of members through a comprehensive learning program that integrates classroom instruction, applies learning, connects to business, and promotes competition. <b>Mission:</b> <i>To prepare emerging leaders and entrepreneurs in marketing, finance, hospitality, and management.</i></p>	Marketing, Sales & Service	11,675
 <p><b>Career and Technical Instruction (CTI)</b> is designed to support students with disabilities enrolled in Career, Technical and Agricultural Education classes. The CTI program provides secondary level students with disabilities entry-level job skills in broad or specific occupation clusters. <b>Mission:</b> <i>To provide meaningful leadership and employability experiences for students with disabilities through career, technical and agricultural education courses.</i></p>	Coordinated Career Academic Education	5,259

## CTSO Core Values For Career Success

**Commitment** – To create among members, educators and business and industry an adherence and appreciation for all Career, Technical and Agricultural Education Programs

**Conviction** – To develop patriotism through knowledge of our nation's heritage and practice of democracy

**Education** – To create enthusiasm and empower students to become lifelong learners

**Integrity** – To deal honestly and fairly with one another

**Leadership** – To develop leadership abilities through participation in educational, professional, community and social activities

**Professionalism** – To promote high standards in career ethics, workmanship, scholarship and safety

**Recognition** – Appreciation of the value of achievement

**Service** – To cultivate a desire to contribute to the benefit and welfare of others

**Teamwork** – To enhance the ability of students to plan together, organize and carry out worthy activities and projects through the use of the democratic process

The Georgia Department of Education CTAE programs will continue to expand the educational opportunities offered by continuing to develop Career Pathways that are relevant and aligned to the 21st century workplace. As the Georgia economy changes and expands, CTAE programs will continue evolving to ensure that every student in Georgia graduates from high school with the academic skills, hands-on experience in real work environments, and intensive career guidance required to succeed in college, employment, and life-long learning. During FY 2013 and beyond CTAE has identified several areas for special ongoing focus:

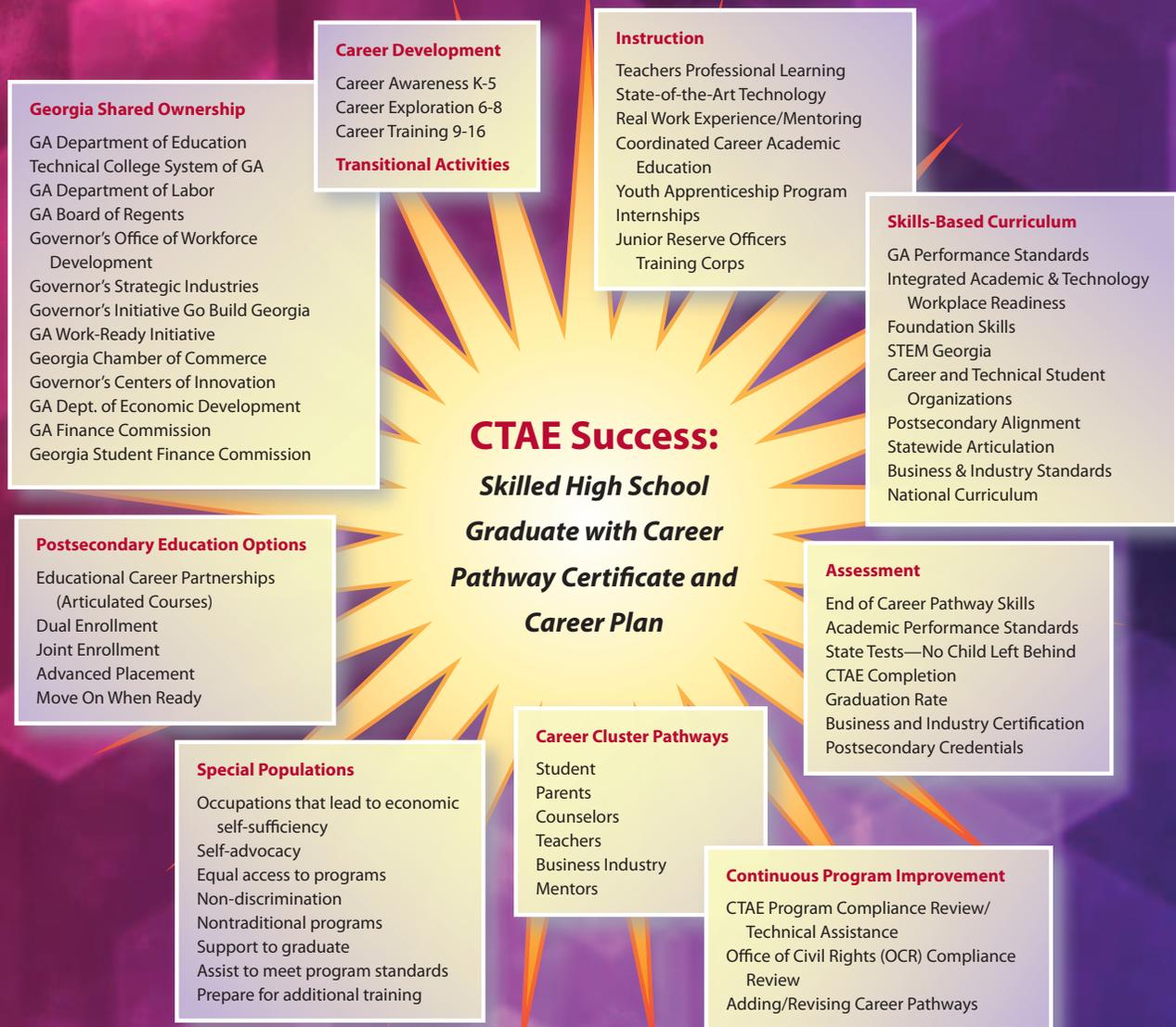
- The Georgia Career Pathways will be implemented during the 2012-2013 school year with all high school students. The Pathways will be phased in beginning with the foundation course with the additional courses introduced as they are completed.
- The Georgia Department of Education is partnering with the Georgia Chamber of Commerce and the Carl Vinson Institute of Government to gather critical data from Career Cluster Advisory Committees to incorporate in CTAE development and revisions. This will include a statewide survey to identify additional input on skills to include in each of the 17 Career Clusters. Each Career Cluster had an advisory committee consisting of business and industry leaders, school administrators, school counselors, and college and secondary teachers. Committee members will review Georgia's current CTAE standards for the Career Pathway courses and the soft skills and academic skills required for each course. Each career pathway course will incorporate:
  - ◆ Academic Common Core Curriculum to ensure consistency across states
  - ◆ Alignment with National Assessments and Student Credentialing Programs
  - ◆ Relevant Content
  - ◆ Higher-Order Thinking Skills
  - ◆ Rigorous Technical Knowledge and Skills
  - ◆ Soft Skills

A phased-in plan for implementation of the new Career Cluster/Pathway courses will begin with the adoption of foundation courses and continue through all of the designated pathway courses.

- **STEM (Science, Technology, Engineering and Mathematics)** Georgia will continue work to increase the number of students entering science, technology, engineering,

and math career areas. STEM plans for FY 2013 include partnership activities with local industries and the community, and include additional STEM Institutes for CTAE educators, math and science teachers. STEM industries and organizations will explore career opportunities and ways in which specific industry careers can be applied in the classroom. Georgia STEM Festivals at participating high schools will be held to inspire and motivate students to consider a STEM career by creating an awareness of STEM possibilities that reflect the local economy and involve students, teachers, and STEM industries that will exhibit related career opportunities.

- **CTAE End-of-Pathway Assessments** will continue to be identified and implemented for all career pathways.
- **Non-Traditional Career Pathways** will be promoted based on enrollment data. For example, efforts will be made to encourage female students to enroll in the career areas of Architecture, Construction, Communication and Transportation; Agriculture; and Engineering and Technology Education; and to attract male students to the Family and Consumer Sciences, Education, and Healthcare Science career areas.
- **Industry Certification/Recertification** will be conducted to maintain existing certifications and to expand to include additional Career Pathways.
- **Curriculum Guides** will be updated to support all existing Career Pathways and developed for new Career Pathways.
- **In-Service Education Opportunities** will continue to provide high-level professional development for CTAE educators and counselors.
- **The Georgia initiative Move On When Ready** will continue and expand opportunities for postsecondary education during high school as an integrated part of CTAE Career Pathways.
- Georgia CTAE will continue to reorganize the current career pathways to align with the Georgia 17 Career Clusters/Pathways: Agricultural & Natural Resources; Architecture & Construction; Arts, A/V Technology & Communications; Business & Administration; Education & Training; Energy; Finance; Government & Public Administration; Health Science; Hospitality & Tourism; Human Services; Information Technology; Law & Public Safety; Manufacturing; Marketing, Sales & Service; Scientific Research/Engineering; and Transportation, Distribution & Logistics.



**Georgia Program Concentrations  
Available 2011–2012**

**Agriculture**

**Healthcare Science Pathways**

- Biotechnology Research & Development
- Diagnostic Services
- Health Informatics
- Therapeutic Services–Emergency Services
- Therapeutic Services–Medical Services
- Therapeutic Services–Nursing
- Personal Care Services–Cosmetology
- Physical Medicine

**Arts & Humanities Pathways**

- Journalism
- Foreign Language
- Performing Arts
- Visual Arts

**Family & Consumer Science Pathways**

- Consumer Services
- Family, Community & Global Leadership
- Interior Design
- Nutrition & Food Science

**Culinary Arts Pathways**

- Culinary Arts

**Education Pathways**

- Early Childhood Education
- Teaching As A Profession

**Government & Public Safety Pathways**

- Firefighting
- Homeland Security & Emergency Services
- Law & Justice
- JROTC–Air Force, Army, Marine Corps, Navy

**Agriculture Pathways**

- Agribusiness Management
- Agriscience
- Agricultural Mechanics
- Animal Science
- Forestry/Natural Resources
- Plant Science/Horticulture
- Veterinary Science

**Architecture, Construction, Communication, Transportation Pathways**

- Aircraft Support
- Architectural Drawing & Design
- Broadcast/Video Production
- Climate Control Systems Technology (HVACR)
- Collision Repair
- Construction
- Flight Operations
- Graphic Communications
- Graphic Design
- Marine Engine Technology
- Maritime Studies
- Metals Technology
- Transportation Logistical Operations (Ground/Marine)
- Transportation Logistical Support (Ground/Marine)

**Engineering & Technology Pathways**

- Electronics
- Energy Systems
- Engineering
- Engineering Graphics & Design
- Manufacturing

**Business & Computer Science Pathways**

- Administrative/Information Support
- Computer Networking
- Computer Systems and Support Computing
- Financial Management–Accounting
- Financial Management–Services
- Interactive Media
- Small Business Development

**Marketing Sales & Services Pathways**

- Fashion Marketing
- Marketing Communications & Promotion
- Marketing & Management
- Sports & Entertainment Marketing
- Travel Marketing & Lodging Management



**Business & Computer Science**

**Marketing Sales & Services**

**Architecture, Construction, Communications & Transportation**

**Engineering & Technology**



*Dr. John D. Barge, State School Superintendent  
"Making Education Work for All Georgians"*

# CTAE

## Career, Technical and Agricultural Education

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