Friends and Colleagues,

Thank you for your interest in reading about the Georgia Department of Education’s Career, Technical and Agricultural Education (CTAE) programs. Over the last few years, we have been developing relevant Career Pathways aligned to the 21st century workplace, including crucial job growth areas. These Career Pathways are designed to provide our CTAE students with the knowledge and skills they need to be successful in today’s world of work, and we are pleased to share the details with you in this report.

Students who follow our Career Pathways are not only prepared for their chosen careers, they are also provided with a real-life connection to what is being taught in our core classes of mathematics, social studies, science, and English. Additionally, our Career Pathways encourage CTAE students to be critical thinkers and problem-solvers, just what our nation needs in its future leaders. I believe we have one of the best CTAE programs in the nation.

In Georgia, 138,192 students participate in nine CTAE organizations. The activities and goals of these organizations are linked to what is learned in the classroom and related work experience. Another important focus of these organizations is leadership training. Georgia’s national ranking for student participation in these organizations is outstanding, ranging from first to fourteenth in the nation. We are very proud of their work and their accomplishments.

You will see as you read this report that our CTAE program in Georgia is stronger than ever, providing greater opportunities for students to build bridges to a variety of careers. Thank you again for your interest in our work.

Sincerely,

Kathy Cox
Friends and Colleagues,

Welcome to our annual report! If you are reading this report, you probably have an interest in Georgia’s Career, Technical and Agricultural Education (CTAE) programs. Preparing students to be successful in careers has long been our goal. Additionally, CTAE provides students with a strong foundation in core academic skills and the ability to use those skills in solving real world problems encountered in business and industry. In any career, students must also have strong employability skills, which include work ethics, critical thinking and dependability. Our goal is to embed these fundamental skills in all CTAE courses. Also embedded in each course are the critical technical skills our students need to be successful in their career focus area. Students will be able to utilize these technical skills along with core academic skills and employability skills in solving real world problems.

Many positions, typically higher wage positions, require extensive training and higher level of technical skill. By acquiring more career related pathway specific skills, students increase their opportunities of obtaining career-sustaining industry certified credentials that are highly valued by employers.

These broad skill sets prepare students for careers, as well as additional training at our technical colleges and universities. We must take such approaches to ensure that our students become successful in the global economy of this 21st century.

Sincerely,

[Signature]
Gary C. Steppe
Expanding Georgia's economy depends on a high-tech, highly skilled workforce to support a broad variety of career pathways. The state career and technical education system consists of programs offered at the middle and secondary school level by the Career, Technical and Agricultural Education (CTAE) Division of the Georgia Department of Education (GaDOE) and at the postsecondary level by the Technical College System of Georgia (TCSG). 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 programs offered to middle and high school students directly address the Georgia Department of Education Strategic Plan Goal 3 – Improve Workforce Readiness Skills. Each CTAE Career Pathway integrates a strong academic preparation with current and emerging career opportunities and workforce needs and skills, in support of the Georgia economy. 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, and the Governor’s Centers of Innovation. Georgia Career Pathways, widely recognized as the best in the nation, develop a well-educated, technically trained and highly competitive workforce that stimulates the economy.

Programs of study under CTAE:

- Incorporate and align secondary and post-secondary education
- Include academic and CTAE content in a coordinated, non-duplicative progression of courses
- Include the opportunity for secondary students to acquire post-secondary credits
- Lead to an industry-recognized credential or certificate at the post-secondary level, or an associate or baccalaureate degree
- Identify and address current or emerging occupational opportunities

CTAE Mission: To prepare students to be successful as they transition to college and the workforce.
Middle School Students (Grades 6-8) Enrolled in each Program Area in 2008-2009

- Agricultural Education 19,936
- Family & Consumer Sciences 82,504
- Business & Computer Science 113,037
- Engineering & Technology Education 116,462

High School Students (Grades 9-12) Enrolled in each Program Area in 2008-2009

- Culinary Arts 6,642
- Government and Public Safety 7,677
- Marketing, Sales and Services Education 17,114
- Education 23,738
- Healthcare Science Education 26,125
- Agricultural Education 28,728
- Engineering and Technology Education 29,449
- Family and Consumer Science 66,544
- Architecture, Construction, Communications & Transportation 67,205
- Business and Computer Science 150,491
CTAE Achievements in 2008-09

Academic Achievements of CTAE Students
- 90% of CTAE Concentrators who took the Georgia High School Graduation Test (GHSGT) met or exceeded state standards in English/Language Arts
- 75% of CTAE Concentrators who took the Georgia High School Graduation Test met or exceeded state standards in Mathematics
- Georgia CTAE exceeded the federal performance level targets in all 3 categories of Academic Attainment in FY2009

<table>
<thead>
<tr>
<th></th>
<th>State FY09 Target</th>
<th>Actual Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>English/Language Arts ( % passing GHSGT)</td>
<td>85%</td>
<td>90%</td>
</tr>
<tr>
<td>Mathematics ( % passing GHSGT)</td>
<td>69%</td>
<td>75%</td>
</tr>
<tr>
<td>Graduation rate</td>
<td>75%</td>
<td>91%</td>
</tr>
</tbody>
</table>

Graduation Rate for CTAE Concentrators
- 91% graduated with regular diplomas in FY2009
- CTAE graduation rate of 91% compares favorably with Georgia's overall graduation rate of 79% in 2009

CTAE Postsecondary Transitions
- A total of 5,918 high school students dual enrolled in college-level CTAE courses at Georgia's technical colleges or other colleges with technical divisions
- A total of 1,028 high school students joint enrolled in college-level CTAE courses at Georgia's technical colleges or other colleges with technical divisions

CTAE Teacher Achievements
- 389 professional development workshops were held with a total attendance of 10,950 CTAE educators throughout the state in FY2009

CTAE Program Achievements
- 443 CTAE programs were industry certified in FY 2009
- 53% of all middle school and 62% of all high school students were enrolled in CTAE courses in FY2009
- Student enrollment in the following high school CTAE programs increased compared to FY2008
  - New Programs
    - Culinary Arts (59%)
    - Education (40%)
  - Healthcare Science Education (10%)
  - Marketing, Sales & Services Education (6%)
  - Architecture, Construction, Communication, and Transportation (1%)
  - Agricultural Education (.3%)
  - Family and Consumer Sciences (.2%)
- Student enrollment in the following middle school CTAE programs increased compared to FY2008
  - Agriculture Education (4.3%)
  - Engineering and Technology Education (3.8%)
- Student membership in Career Technical Student Organizations numbered 138,192 in FY 2009
- Student membership increased in 5 of the 9 Career Technical Student Organizations compared to last year’s participation level
- Three Georgia Career Technical Student Organizations were ranked 1st in the nation in student participation: Future Business Leaders of America (FBLA); Family, Career and Community Leaders of America (FCCLA); and Georgia Technology Association (TSA); Future Farmers of America (FFA) ranked 3rd in the nation
- 97% of employers participating in the Georgia Youth Apprenticeship Program agreed that students performed at the level expected
- 95% of employers participating in the Georgia Youth Apprenticeship Program found the program beneficial to their company and 93% rated the program above average
In FY 2009 Georgia Career, Technical and Agricultural Education offered high school students over 50 Career Pathways. Each Career Pathway is a state-approved career enhancement program and is designed as a coherent, articulated sequence of rigorous academic and career-related courses.

Middle school students participated in Career Exploration classes that are integrated in the curriculum, used tools from the GAcollege411 website to explore career options, engaged in student/parent advisement conferences, worked on an 8th Grade Pathway Project, and selected a Career Pathway.

Selecting career pathway courses in high school will enable students to have a head start toward a successful future.

At the high school level, students may explore various Career Pathway courses or take a sequence of three courses in a single Career Pathway (CTAE Concentrator). These courses usually begin in the 9th grade and lead to an industry-recognized certificate or licensure, an associate degree, or baccalaureate degree and beyond. Career pathways offer students options to explore and gain marketable skills in specific career areas that lead to high-demand, high-wage, and high-skilled jobs required to support the Georgia economy. Students create individualized Peach State Pathway Career Plans to guide their secondary and postsecondary education and participate in end-of-pathway assessments.

Our CTAE program in Georgia is stronger than ever, providing greater opportunities for students to build bridges to a variety of careers.

— Kathy Cox, Superintendent of Schools
Georgia Department of Education
### Enrollment by Gender in Grades 9-12

<table>
<thead>
<tr>
<th>Gender</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>19,061</td>
<td>66%</td>
</tr>
<tr>
<td>Female</td>
<td>9,667</td>
<td>34%</td>
</tr>
</tbody>
</table>

### High School Student Enrollment in Agriculture Education in FY 2009

<table>
<thead>
<tr>
<th>Pathway-Related Course Enrollment – 82,543</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Agriculture Mechanics 13,682 (17%)</td>
</tr>
<tr>
<td>• Plant Science/Horticulture 14,745 (18%)</td>
</tr>
<tr>
<td>• Agriscience 11,663 (14%)</td>
</tr>
<tr>
<td>• Animal Science 11,540 (14%)</td>
</tr>
<tr>
<td>• Forestry &amp; Natural Resources 11,523 (14%)</td>
</tr>
<tr>
<td>• Veterinary Science 9,697 (12%)</td>
</tr>
<tr>
<td>• Agribusiness Management 9,693 (12%)</td>
</tr>
</tbody>
</table>

### Other AGED Courses
- 3,301

### Grade 6-8 Student Enrollment in Agriculture Education Courses in FY 2009
- 19,936

### Number of Industry-Certified Programs
- 22

### Number of CTAE Certified Teachers FY 2009
- 456 High School Teachers
- 76 Middle School Teachers

### Career Technical Student Organization (CTSO)

**Future Farmers of America (FFA): 29,304 members**

**Georgia FFA** had 7 national winners and was recognized for the largest membership growth at the 82nd National FFA Convention. Following the FFA motto “Learning to Do, Doing to Learn, Earning to Live, Living to Serve” FFA students are offered a variety of experimental learning opportunities and competitions that focus on leadership and public speaking. By complimenting classroom and lab instruction in agricultural education, FFA develops students’ potential for career success and provides optimal opportunities for them to become successful, productive citizens.

### AGRICULTURE EDUCATION (AGED) 2008-2009

**AGRICULTURE EDUCATION (AGED)** is composed of three interrelated components including classroom and laboratory experiences, Supervised Agricultural Experience Program incorporating real-life on-the-job skills, and the Future Farmers of America student organization for developing leadership skills. The program combines agriculture technical skills with rigorous coursework, leadership training, and an exploration of the ethical and philosophical issues related to genetic engineering and other current agricultural topics. Agriculture generates over $25 billion annually to the Georgia economy and CTAE supports this Strategic Industry identified by the Governor.
**ARCHITECTURE, CONSTRUCTION, COMMUNICATIONS & TRANSPORTATION (ACCT) programs equip students with the knowledge, skills, and attitudes necessary for successful employment in the trade and industrial field and for further education. In addition to classroom and laboratory experiences, students participate in work-based learning and SkillsUSA, the youth organization with opportunities to develop academic, technical, and citizenship skills.**

<table>
<thead>
<tr>
<th>Enrollment by Gender in Grades 9-12</th>
<th>Total 67,205</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Unduplicated Count)</td>
<td>(Unduplicated Count)</td>
</tr>
<tr>
<td>Male 45,658 (68%)</td>
<td>Female 21,547 (32%)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>High School Student Enrollment in Architecture, Construction &amp; Transportation Education in FY 2009</th>
<th>Pathway-Related Course Enrollment -- 77,197</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Duplicated Count)</td>
<td>(Duplicated Count)</td>
</tr>
<tr>
<td>Pathway-Related Course Enrollment -- 77,197</td>
<td>Pathway-Related Course Enrollment -- 77,197</td>
</tr>
<tr>
<td>Construction 12,913 (17%)</td>
<td>Construction 12,913 (17%)</td>
</tr>
<tr>
<td>Transportation/Logistical Support – Ground Marine 10,915 (14%)</td>
<td>Transportation/Logistical Support – Ground Marine 10,915 (14%)</td>
</tr>
<tr>
<td>Broadcast/Video Production 10,089 (13%)</td>
<td>Broadcast/Video Production 10,089 (13%)</td>
</tr>
<tr>
<td>Transportation/Logistical Operations – Ground Marine 9,854 (13%)</td>
<td>Transportation/Logistical Operations – Ground Marine 9,854 (13%)</td>
</tr>
<tr>
<td>Heating, Ventilation, Air Conditioning, and Refrigeration (HVACR) 8,197 (11%)</td>
<td>Heating, Ventilation, Air Conditioning, and Refrigeration (HVACR) 8,197 (11%)</td>
</tr>
<tr>
<td>Architectural Drawing &amp; Design 6,790 (9%)</td>
<td>Architectural Drawing &amp; Design 6,790 (9%)</td>
</tr>
<tr>
<td>Graphic Communications 6,006 (8%)</td>
<td>Graphic Communications 6,006 (8%)</td>
</tr>
<tr>
<td>Graphic Design 6,006 (8%)</td>
<td>Graphic Design 6,006 (8%)</td>
</tr>
<tr>
<td>Metals 4,310 (6%)</td>
<td>Metals 4,310 (6%)</td>
</tr>
<tr>
<td>Flight Operations 969 (1%)</td>
<td>Flight Operations 969 (1%)</td>
</tr>
<tr>
<td>Collision Repair 934 (1%)</td>
<td>Collision Repair 934 (1%)</td>
</tr>
<tr>
<td>Aircraft Support 214 (less than 1%)</td>
<td>Aircraft Support 214 (less than 1%)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other ACCT Courses</th>
<th>2,722</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Number of Industry-Certified Programs:</th>
<th>120</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of CTAE Certified Teachers FY 2009</td>
<td>634 High School Teachers</td>
</tr>
</tbody>
</table>

**Career Technical Student Organization (CTSO)**

**Georgia SkillsUSA:** 6,768 members

**SkillsUSA Georgia** helps each student excel by participating in local, state, and national activities provided through trade and industrial, technical, and health occupations courses and programs. Students develop leadership skills and workplace competencies needed to succeed in a constantly changing global workplace. In 2008, SkillsUSA Georgia received national recognition in the Best of Brand Print Award for publications.

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*The opportunities in construction in Georgia far outstrip the qualified manpower available. People who can handle a variety of different tasks and are knowledgeable about different types of construction issues can always find a place in the construction business.*

—President, Goodman Decorating, Atlanta
Enrollment by Gender in Grades 9-12
(Unduplicated Count)

<table>
<thead>
<tr>
<th>Total</th>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>150,491</td>
<td>78,671 (52%)</td>
<td>71,820 (48%)</td>
</tr>
</tbody>
</table>

High School Student Enrollment in Business and Computer Science in FY 2009
(Duplicated Count)

<table>
<thead>
<tr>
<th>Pathway-Related Course Enrollment – 211,258</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administration/Information Support 61,859 (29%)</td>
</tr>
<tr>
<td>Small Business Development 38,161 (18%)</td>
</tr>
<tr>
<td>Financial Mgmt. – Accounting 35,859 (17%)</td>
</tr>
<tr>
<td>Financial Mgmt. – Services 31,992 (15%)</td>
</tr>
<tr>
<td>Interactive Media 25,576 (12%)</td>
</tr>
<tr>
<td>Computing 15,212 (7%)</td>
</tr>
<tr>
<td>Computer Systems &amp; Support 1,571 (less than 1%)</td>
</tr>
<tr>
<td>Computer Networking 1,028 (less than 1%)</td>
</tr>
</tbody>
</table>

Other BCS Courses
- 9,351

Grade 6-8 Student Enrollment in Business and Computer Science Courses in FY 2009
113,037

Number of Industry-Certified Programs:
127

Number of CTAE Certified Teachers FY 2009
1,766 High School Teachers
365 Middle School Teachers

Career Technical Student Organization (CTSO)

Future Business Leaders of America (FBLA): 23,721 members

Georgia FBLA, the largest FBLA chapter in the nation, prepares students to be competent, aggressive, successful business leaders. Through innovative leadership and career development programs, business and education are brought together in a positive working relationship. Georgia FBLA goals include strengthening the confidence of students in themselves and their work, creating interest in and understanding of American business enterprise, encouraging efficient money management, and facilitating students’ transition from school to work. Following the motto “Service, Education, and Progress” FBLA students stay involved in community service projects.

BUSINESS and COMPUTER SCIENCE (BCS) programs prepare students to become productive members of the business community and to enter a post-high school institution after graduation. Entrepreneurs, innovators, and small businesses play a key role in Georgia’s economic growth with over 810,000 small businesses contributing to the state economy.

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 Anderton, Human Resources Manager
BellSouth.Net, Inc., Atlanta, Georgia
ENGINEERING AND TECHNOLOGY EDUCATION (ENGR) utilizes computer and educational technology in the delivery of content related to systems of communication, energy/power, transportation, production, and bio-related technologies. Technology education develops technological literacy as a part of the students’ fundamental education through an activity-based study of past, present, and future technological systems and their resources, processes, and impact on society.

**Enrollment by Gender in Grades 9-12 (Unduplicated Count)**

<table>
<thead>
<tr>
<th>Total</th>
<th>29,449</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>22,418 (76%)</td>
</tr>
<tr>
<td>Female</td>
<td>7,031 (24%)</td>
</tr>
</tbody>
</table>

**High School Student Enrollment in Engineering and Technology Education in FY 2009 (Duplicated Count)**

<table>
<thead>
<tr>
<th>Pathway-Related Courses Enrollment -- 42,171</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering 19,359 (46%)</td>
</tr>
<tr>
<td>Energy Systems 13,619 (33%)</td>
</tr>
<tr>
<td>Engineering Graphics &amp; Design 6,959 (17%)</td>
</tr>
<tr>
<td>Manufacturing 1,155 (3%)</td>
</tr>
<tr>
<td>Electronics 1,079 (3%)</td>
</tr>
</tbody>
</table>

**Other ENGR Courses**

| 630 |

**Grade 6-8 Student Enrollment in Engineering and Technology Education Courses in FY 2009**

| 116,462 |

**Number of Industry-Certified Programs:**

| 51 |

**Number of CTAE Certified Teachers FY 2009**

| 487 High School Teachers |
| 279 Middle School Teachers |

**Career Technical Student Organization (CTSO)**

**Technology Student Association (TSA): 22,212 members**

The *Technology Student Association (TSA)* motto “Learning to Live in a Technical World” is achieved by providing students opportunities to develop competitive skills in communication and leadership through the technology education program. A wide variety of event competitions such as Animatronics, Cyberspace Pursuit, Dragster Design, Flight Endurance, Transportation Modeling, Manufacturing Prototype, and Medical Technology allow students to demonstrate their skills. TSA students develop good attitudes concerning work, tools, materials, experimentation, and processes of industry.

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) AND CULINARY ARTS 2008-2009

FAMILY AND CONSUMER SCIENCES (FACS) education offers a unique focus on families, work, and their interrelationships, providing a solid foundation for success in a broad range of careers that require strong leadership, professional, and interpersonal skills. Students learn to manage resources to meet the essential needs of individuals and families, to promote optimal nutrition and wellness across the life span, and to accept responsibility for actions and success in family, work, and the diverse global society.

<table>
<thead>
<tr>
<th>Enrollment by Gender in Grades 9-12</th>
<th>Total</th>
<th>77,192</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Unduplicated Count)</td>
<td>Male</td>
<td>17,927</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>59,265</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>High School Student Enrollment in Family and Consumer Sciences Education in FY 2009</th>
<th>Pathway-Related Courses Enrollment – 29,387</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Duplicated Count)</td>
<td>• Nutrition &amp; Food Science 23,137 (79%)</td>
</tr>
<tr>
<td></td>
<td>• Interior &amp; Fashion Design 5,553 (19%)</td>
</tr>
<tr>
<td></td>
<td>• Consumer Sciences 697 (2%)</td>
</tr>
<tr>
<td>Other FACS Courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 12,337</td>
</tr>
</tbody>
</table>

Grade 6-8 Student Enrollment in Family and Consumer Science Courses in FY 2009

<table>
<thead>
<tr>
<th>Number of CTEA Certified Teachers FY 2009</th>
<th>450 High School Teachers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>209 Middle School Teachers</td>
</tr>
</tbody>
</table>

CULINARY ARTS is a growing program based on the American Culinary Federation Standards and with articulations with postsecondary institutions. Culinary Arts is designed for students wanting to learn the “art” of cooking in many diverse settings, such as Sous Chef, Pastry Chef, Kitchen Manager, Garde Manager, Banquet Chef, or Restaurant Entrepreneur.

<table>
<thead>
<tr>
<th>Enrollment by Gender in Grades 9-12</th>
<th>Total</th>
<th>6,642</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Unduplicated Count)</td>
<td>Male</td>
<td>1,594</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>5,048</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>High School Student Enrollment in Culinary Arts in FY 2009</th>
<th>Pathway-Related Courses Enrollment – 7,467</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Duplicated Count)</td>
<td></td>
</tr>
<tr>
<td>Number of Industry-Certified Programs</td>
<td>5</td>
</tr>
<tr>
<td>Number of CTEA Certified Teachers FY 2009</td>
<td>119 High School Teachers</td>
</tr>
</tbody>
</table>

Career Technical Student Organization (CTSO)

Family, Career and Community Leaders of America (FCCLA): 28,398 members

Family, Career, Community Leaders of America (FCCLA) promotes students' personal growth and leadership development through family and consumer sciences education. Students are prepared for the multiple roles of family member, wage earner, and community leader. Members participate in a variety of community service projects and competitions. Student benefits include career preparation, personal growth and enhanced self-esteem, and leadership experiences.
HEALTHCARE SCIENCE EDUCATION (HCSTE) AND GOVERNMENT & PUBLIC SAFETY 2008-2009

HEALTHCARE SCIENCE EDUCATION (HCSTE) programs provide a pipeline for the healthcare workers of the future. According to the Georgia Department of Labor, by the year 2014, health services will account for one in every twelve jobs in Georgia. The healthcare field is projected to increase by almost 100,000 jobs, placing its employment levels at more than 420,000 jobs by 2014. Students learn basic concepts of health, wellness, and preventative care, medical terminology, microbiology, life-support skills, and the ethical and legal responsibilities of healthcare providers as well as problem solving and decision making skills.

### Enrollment by Gender in Grades 9-12 (Unduplicated Count)

<table>
<thead>
<tr>
<th>Total</th>
<th>26,125</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>4,404  (17%)</td>
</tr>
<tr>
<td>Female</td>
<td>21,721  (83%)</td>
</tr>
</tbody>
</table>

### High School Student Enrollment in Healthcare Science Education (HCSTE) Education in FY 2009 (Duplicated Count)

- Pathway-Related Course Enrollment – 126,084
  - Therapeutic Services - Nursing 22,488 (18%)
  - Therapeutic Services - Medical 21,096 (17%)
  - Therapeutic Services - Emergency 16,057 (13%)
  - Health Informatics 15,779 (13%)
  - Diagnostic Services 15,211 (12%)
  - Physical Medicine 15,200 (12%)
  - Biotechnology Research & Development 15,159 (12%)
  - Personal Care Services -- Cosmetology 5,094 (4%)

### Number of Industry-Certified Programs:

- 50

### Number of CTAE Certified Teachers FY 2009

- 353 High School Teachers

GOVERNMENT & PUBLIC SAFETY focuses on two career pathways: Homeland Security and Emergency Services, and Law and Justice. Students are prepared to be qualified professionals providing a dedicated public safety workforce for the future.

### Enrollment by Gender in Grades 9-12 (Unduplicated Count)

<table>
<thead>
<tr>
<th>Total</th>
<th>7,677</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>4,421 (57%)</td>
</tr>
<tr>
<td>Female</td>
<td>3,256 (43%)</td>
</tr>
</tbody>
</table>

### High School Student Enrollment in Government and Public Safety in FY 2009 (Duplicated Count)

- Pathway-Related Courses Enrollment – 5,656

### Number of Industry-Certified Programs

- 5

### Number of CTAE Certified Teachers FY 2009

- 83 High School Teachers

**Career Technical Student Organization (CTSO)**

**Health Occupations Students of America (HOSA):** 7,446 members

**Health Occupations Students of America (HOSA)** promotes career opportunities in the health care industry and enhances the delivery of quality health care to all people by providing a unique program of leadership development, motivation, and recognition for HSTE students. HOSA’s mission is especially critical to help fill shortages of qualified workers for the health care industry.
MARKETING, SALES AND SERVICES EDUCATION (MKT) 2008-2009

MARKETING, SALES AND SERVICES EDUCATION (MKT) prepares students for postsecondary education and careers in marketing, management, and entrepreneurship. Students develop knowledge and skills in the foundation areas of marketing (economics, human relations and business basics) and the functional areas of marketing (product and service planning, marketing information management, purchasing and pricing, selling and promotion, risk management, financing and distribution/logistics), as well as international marketing, management, and entrepreneurship.

### Enrollment by Gender in Grades 9-12 (Unduplicated Count)

<table>
<thead>
<tr>
<th>Gender</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>7,645 (45%)</td>
</tr>
<tr>
<td>Female</td>
<td>9,469 (58%)</td>
</tr>
</tbody>
</table>

### High School Student Enrollment in Marketing, Sales and Services Education (MKT) in FY 2009 (Duplicated Count)

<table>
<thead>
<tr>
<th>Pathway-Related Course Enrollment – 51,732</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marketing &amp; Management 11,223 (22%)</td>
</tr>
<tr>
<td>Fashion Marketing 11,114 (21%)</td>
</tr>
<tr>
<td>Sports &amp; Entertainment Marketing 10,748 (21%)</td>
</tr>
<tr>
<td>Marketing Communication &amp; Promotion 9,434 (18%)</td>
</tr>
<tr>
<td>Travel Marketing &amp; Lodging Management 9,213 (18%)</td>
</tr>
</tbody>
</table>

### Other MKT Courses
- 742

### Number of Industry-Certified Programs:
65

### Number of CTAE Certified Teachers FY 2009
183 High School Teachers

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DECA: 8,735 members

DECA develops future leaders in marketing, management and entrepreneurship. Members become aware of the value of community service; participate in competitive events that showcase student skills and allow for interaction with the business community; serve in leadership roles; and develop a greater understanding of our competitive, free-enterprise system and an appreciation of the responsibilities of citizenship.

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EDUCATION 2008-2009

EDUCATION programs are designed for students interested in pursuing a career in the education field from early childhood education through postsecondary education. These pathways introduce the foundations of education, combined with knowledge and skills essential for educators.

### Enrollment by Gender in Grades 9-12 (Unduplicated Count)

<table>
<thead>
<tr>
<th>Gender</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>2,937 (12%)</td>
</tr>
<tr>
<td>Female</td>
<td>20,801 (88%)</td>
</tr>
</tbody>
</table>

### High School Student Enrollment in Education in FY 2009 (Duplicated Count)

<table>
<thead>
<tr>
<th>Pathway-Related Courses Enrollment – 24,068</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching as a Profession 3,961 (16%)</td>
</tr>
<tr>
<td>Early Childhood Education 20,107 (84%)</td>
</tr>
</tbody>
</table>

### Number of Industry-Certified Programs
3

### Number of CTAE Certified Teachers FY 2009
422 High School Teachers
COORDINATED CAREER ACADEMIC EDUCATION/PROJECT SUCCESS (CCAE/PS) 2008-2009

Enrollment by Gender in Grades 9-12 (Unduplicated Count)
- Total: 5,779
  - Male: 2,757 (48%)
  - Female: 3,022 (52%)

Number of CTAE Certified Teachers FY 2009
- 76 High School Teachers

Career Technical Student Organizations (CTSO)
- Georgia Career Student Association (GCSA): 4,678 members

Georgia Career Student Association (GCSA) helps students learn about the world of work and the employment skills they need to be successful. Through GCSA students are assisted in reaching their potential and becoming well-rounded individuals. Members develop confidence and maturity through meeting challenges and completing projects.

COORDINATED CAREER ACADEMIC EDUCATION/PROJECT SUCCESS (CCAE/PS) provides educational and occupational services to assist students in becoming responsible, productive citizens. Through participation in the CCAE/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 have the opportunity to develop knowledge, attitudes and experiences that will serve as a substantial base for decision making when they reach points in their lives when they must make education or career decisions.

CAREER AND TECHNICAL INSTRUCTION (CTI) 2008-2009

Enrollment by Gender in Grades 9-12 (Unduplicated Count)
- Total: 6,930
  - Male: 4,457 (64%)
  - Female: 2,473 (36%)

Number of CTAE Certified Teachers FY 2009
- 262 High School Teachers

CAREER AND TECHNICAL INSTRUCTION (CTI) is designed to support students with disabilities enrolled in CTAE classes and in participation in Career Technical Student Organizations. The goal of the secondary level support services is to provide students with employment opportunities at the completion of their CTAE experience.

JUNIOR RESERVE OFFICERS TRAINING CORPS (JROTC) 2008-2009

High School Student Enrollment in JROTC-Related Courses in FY 2009 by Type of Service
- U.S. Army: 15,956
- U.S. Air Force: 7,498
- U.S. Navy: 6,232
- U.S. Marines: 1,895

Scholarship Awards Earned in FY 2009
- $34,315,895

Community Service Hours Contributed by JROTC Units
- 690,430 hours

JUNIOR RESERVE OFFICERS TRAINING CORPS (JROTC) offers the opportunity for high school students to enroll in a citizenship program that combines classroom instruction and practical application with extracurricular activities. The curriculum teaches leadership, time management, and organizational procedures, the rights, and privileges of citizenship, and how our military serves our government. It helps to develop the student cadet's sense of personal responsibility, build life skills, and provide leadership opportunities. JROTC, under the umbrella of the Career, Technical and Agricultural Education Division of the Georgia Department of Education, offers courses that satisfy pathway concentration provisions as students earn credit toward graduation.
With the national economic downturn, the State of Georgia is aggressively addressing many challenges to retain a growing, dynamic economy. It is especially critical for the state to maintain and build the current and future workforce to meet the changing needs of business and industry as the state and regional economy rebounds. Education continues to be an essential part of the Georgia workforce development infrastructure and is a critical focus of the Governor’s Georgia Work Ready program.

Georgia Work Ready was launched in August 2006 by Governor and the Georgia Chamber of Commerce to improve the job training and marketability of Georgia’s workforce and to drive future economic growth for the state. It is the only initiative of its kind to be conducted through a partnership between a state government and state chamber of commerce ensuring that companies can more reliably match the right people with the right jobs. Work Ready is based on a skills assessment and certification for job seekers and a job profiling system for businesses. By identifying both the needs of business and the available skills of Georgia’s workforce, the state can more effectively generate the right talents for the right jobs.

The Georgia Work Ready Certificate provides a comprehensive measure of foundation skills that contribute to workplace success and enables individuals to demonstrate to employers a fitness for employment as well as readiness for increased salaries and promotions. Georgia Work Ready results provide potential employers with information related to the potential employee’s education, skills, and training, as well as good work habits. Students in high school benefit by an increased understanding of work readiness skills which helps them make the connection between education and work and leads to an increase in the graduation rate and recognition by prospective employers as a viable candidate for a job. Businesses benefit by sharing a common language with education and are ensured that the individual is “job ready”. This reduces hiring costs and employee turnover.

Job seekers provide employers with their Work Ready Certificate to demonstrate that they are ready for employment. Educators may use information from the Work Ready program to tailor instructional development plans, certify workforce readiness, and guarantee diplomas. Employers use the system to determine hiring qualifications and training needs. Economic and workforce developers match employers with communities to ensure the best possible workforce.

We need a system that links workforce development and education together and aligns to the economic needs of the state, its regions and local communities.

—Governor Sonny Purdue, State of Georgia
A number of Georgia high school students complete the Work Ready assessment as a part of their preparation for the workplace. According to the Governor’s Office of Workplace Development, during the current three-year period more than 32,000 high school students have completed the Work Ready assessment. High school seniors account for a third of all assessments completed. Combined with their high school diploma, students strengthen their work credentials with the Georgia Work Ready Certificate.

Georgia’s CTAE Career Paths are strengthened in the workplace with Industry Certification in many areas. Industry Certification is a mark of excellence for the student and is recognized by employers. Educators work with state industry associations and subject experts to create the requirements for industry certification, which ensures that students have the skills and knowledge using the latest equipment and technology to be ready to work in the high-demand, high-wage, high-skill jobs available in Georgia.

Work-Based Education opportunities and postsecondary education options offered during and following high school enable students to fulfill their career plans. The state of Georgia is unique in its support of postsecondary education options through the HOPE Program with HOPE grants and scholarships available to secondary and postsecondary students, to enhance their school-based preparation for the workplace.

Across Georgia, a broad range of state and nonprofit agencies are working together to stimulate the growth of the state economy and to ensure Georgia has a well-educated workforce that meets the needs of current as well as new businesses and industries that make up the backbone of the Georgia economy. A readily available, trained workforce is the key to maintaining and attracting companies to settle and expand in Georgia. The State of Georgia has created a strong structure to stimulate economic growth.

Programs/Initiatives of the CTAE

We will lead the nation in improving student achievement.
Georgia CTAE – Future Directions

As the Georgia economy changes and expands, the Georgia Department of Education CTAE programs will continue to evolve 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 2010 and beyond CTAE has identified several areas for special ongoing focus:

- **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, including attracting female students to enroll in the Career Areas of Architecture, Construction, Communication and Transportation; Agriculture; and Engineering and Technology Education; and attracting male students to enroll in Family and Consumer Sciences, Education, and Healthcare Science.
- **Industry Certification** will be expanded to include additional Career Pathways.
- **Curriculum Guides** will be developed to support all Career Pathways.
- **In-Service Education Opportunities** will continue to provide high-level professional development for CTAE educators and counselors.
- **Opportunities for postsecondary education during high school** will continue and expand as an integrated part of CTAE Career Pathways.

CTAE Success: Skilled High School Graduate with Career Pathway Certificate and Career Plan

**Career Development**
- Career Awareness K-5
- Career Exploration 6-8
- Career Training 9-16

**Transitional Activities**

**Georgia Shared Ownership**
- GA Department of Education
- Technical College System of GA
- GA Department of Labor
- GA Board of Regents
- Governor’s Office of Workforce Development
- Governor’s Strategic Industries
- GA Work-Ready Initiative
- Georgia Chamber of Commerce
- Governor’s Centers of Innovation
- GA Dept. of Economic Development
- GA Finance Commission
- Georgia Student Finance Commission

**Instruction**
- Teachers Professional Learning
- State-of-the-Art Technology
- Real Work Experience/Mentoring
- Coordinated Career Academic Education
- Youth Apprenticeship Program
- Internships
- Junior Reserve Officers Training Corps

**Skills-Based Curriculum**
- GA Performance Standards
- Integrated Academic & Technology Workplace Readiness
- Foundation Skills
- Career and Technical Student Organizations
- Postsecondary Alignment
- Statewide Articulation
- Business & Industry Standards
- National Curriculum

**Postsecondary Education Options**
- Educational Career Partnerships (Articulated Courses)
- Dual Enrollment
- Joint Enrollment
- Advanced Placement

**Special Populations**
- Occupations that lead to economic self sufficiency
- Self-advocacy
- Equal access to programs
- Non-discrimination
- Nontraditional programs
- Support to graduate
- Assist to meet program standards
- Prepare for additional training

**Peach State Pathways**
- Student
- Parents
- Counselors
- Teachers
- Business Industry Mentors

**Assessment**
- End of Career Pathway Skills
- Academic Performance Standards
- State Tests—No Child Left Behind
- CTAE Completion
- Graduation Rate
- Business and Industry Certification
- Postsecondary Credentials

**Continuous Program Improvement**
- CTAE Program Compliance Review/Technical Assistance
- Office of Civil Rights (OCR) Compliance Review
- Adding/Revising Career Pathways

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