Georgia Career and Technical Student Organizations do not discriminate on the basis of race, color, religion, sex, national origin, age, or disability in any of their activities or practices. Inquiries related to Georgia Career and Technical Student Organizations may be directed to the CTSO Coordinator at the following e-mail address: ctsocoordinator@gmail.com.
Career and Technical Student Organizations (CTSOs) are a vital part of Career, Technical and Agricultural Education (CTAE). CTSOs play an integral role in preparing students to become college and career ready members of society who hold productive leadership roles in their communities. CTSOs are committed to the growth of students in all CTAE career pathways.

These organizations provide motivation, leadership training, and career development opportunities for students enrolled in Career, Technical and Agricultural Education programs in middle and high schools and enhance their occupational, employability and leadership skills through various activities such as conferences, award programs, service projects, and competitive events. These organizations conduct activities and events at the local, state and national levels in which students can participate and compete.

When integrated into the Career, Technical and Agricultural Education curriculum, the CTSO is a powerful instructional tool which offers organized curriculum-oriented activities that help students maximize employability, gain leadership opportunities, and develop personal skills which enable them to develop into productive members of society.

CTSOs are co-curricular organizations with leadership programs and competitive events which reflect current curriculum standards and competencies for the instructional programs they serve. Teachers infuse the CTSO’s activities into the instructional activities, thereby helping students see the real world value of their academic studies.

**CTAE At A Glance**

2012-2013 Georgia Career, Technical, and Agricultural Education

Secondary Education – Grades 6-12

(Data tables provided by the CTAE division and Perkins IV Consolidated Annual Report FY 2012-2013)

**CTAE Programs in Georgia**

180 Local School Systems

Total Georgia Student Enrollment

528,008 Students in Grades 9-12
429,388 Students in Grades 6-8

Student Enrollment in CTAE Courses

(Students enrolled in one or more CTAE courses)

60.90% of all Students in Grades 9-12
Statewide (319,113 students)
56.08% of all Students in Grades 6-8
Statewide (240,801 students)

**CTAE High School Concentrators**

(Students completing 1 or more classes in a Program Area)

96,463 Students

Graduation Rate for CTAE Concentrators

88.4%

**Academic Achievements of CTAE Students**

92.42% of CTAE Concentrators who took the End of Course Test (EOCT) met or exceeded state standards in English/Language Arts in FY 2013

To review the complete series of CTSO competitive events alignment spreadsheets, please visit www.gactso.org
Educating Georgia’s Future

The Technology Student Association fosters personal growth, leadership and opportunities in Science, Technology, Engineering and Mathematics (STEM); members apply and integrate these concepts through co-curricular activities, competitions, and related programs.

Competitions:
TSA provides rules and guidelines for all middle school and high school level competitive events that originated from ‘best practice’ classroom activities from around the country.

At State and National Conferences, students are challenged to use and improve their STEM skills in both team and individual events in such areas as, communication; design and engineering; environmental; societal; systems; transportation; and manufacturing/ construction.

All TSA competitions are aligned with STEM standards; ten core leadership skills (communication, creative thinking, critical thinking, decision making, ethics, evaluation, organization, problem solving, self-esteem, and teamwork); and the 17 Career Clusters.

TSA was one of the first to align its competitive events to STEM standards. Each event was matched with the available standards from Science and Math, the Standards for Technological Literacy, and CRITERIA FOR ACCREDITING ENGINEERING PROGRAMS (Accreditation Board for Engineering and Technology (ABET, Inc.).

In addition to the National TSA official competition, TSA also provides other signature programs and initiatives: In cooperation with the U.S. Army Educational Outreach Program, the Junior Solar Sprint is offered to the middle school students. TEAMS (Tests of Engineering Aptitude, Mathematics and Science) offers an annual STEM competition to teams of math, science and engineering students.

TSA VEX Robotics is an engaging, multifaceted event steeped in engineering students.

STEM education is intrinsically exciting, rewarding, and meaningful for instructors and students alike. It is our belief that, as with STEM education, TSA’s activities provide the same kind of stimulation, challenge, and relevancy for all involved.

Standards Alignment for Program Concentration:
Engineering and Technology: TSA Event Alignment: All competitive events meet at least one or all of the standards for all STEM, Manufacturing and Energy pathway courses.

The OVERALL GOALS of Georgia CTSOs are to:

- Operate in a manner consistent with the organization’s state and national constitutions and bylaws, within state Department of Education policy guidelines.
- Plan and implement programs that support the Career, Technical and Agricultural Education curriculum.
- Maintain communication and collaborative efforts with teachers on the local level and provide opportunities for college and career readiness.
- Assist in the recruitment of chapter advisors and student members utilizing measurable annual targets.
- Create a sense of community among students who are enrolled in a Career, Technical and Agricultural Education program through CTSO membership.
- Promote Career, Technical and Agricultural Education and CTSOs in the community.
- Compliment and reinforce – rather than compete with or duplicate – Career, Technical and Agricultural Education curricula.
- Provide leadership development for students and emphasize the value of employability skills.
- Strengthen academic as well as career and technical skills of students through the co-curricular format by providing contextual learning experiences as part of classroom activities.
- Assist students in developing professionalism/pride by their participation in school and community projects and through networking with business and industry.

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# Dual Enrollment and Post-Secondary Articulation

## Dual Enrollment Alignment
Alignment of CTSO activities and post-secondary programs is achieved through Transition Career Partnerships which are designed to prepare students for college and career opportunities leading students to postsecondary institutions for an industry recognized certification or licensure, an associate and/or higher college degree, and/or successful employment.

Move On When Ready is a dual enrollment program for students to attend a postsecondary institution full-time during their junior and/or senior year of high school and receive high school credit and college credit simultaneously while attending college classes on the college campus, full-time.


Course alignment is also an ongoing, interactive process based on the continuum of requests from local school systems.

## Vision
To form partnerships that build workforce development opportunities for students through career pathways.

## Mission
To strengthen the link between secondary and postsecondary education and to maximize the successful, seamless transition of students from one educational level to another that includes increased student academic, career and technical achievement. To assure that every student will be prepared to advance to a successful career and understand the benefits of lifelong learning.

### Goals:

<table>
<thead>
<tr>
<th>01</th>
<th>02</th>
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<td><strong>Produce graduates who are ready for college level studies and/or direct entry into a high skill, high wage and high demand workforce.</strong></td>
<td><strong>Provide guidance to local systems in developing appropriate career pathways to increase and improve opportunities for students.</strong></td>
<td><strong>Involve and engage business and industry through establishment of a local business council for the purpose of providing resources and support for secondary Career Technical Education and engaging students in workforce development.</strong></td>
<td><strong>Assist in the development and implementation of a more effective seamless transition process.</strong></td>
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</table>

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To review the complete series of CTSO competitive events alignment spreadsheets, please visit [www.gadoe.org](http://www.gadoe.org).
SkillsUSA is a national, nonprofit student organization that has developed more than 10 million workers through active partnerships between employers and educators. Hundreds of American industries have turned to SkillsUSA as the source for employees who exemplify “Champions at Work” in both skills and attitudes. SkillsUSA’s mission is to empower its members to become world-class workers, leaders, and responsible American citizens. At the heart of this mission are SkillsUSA’s core values: integrity, responsibility, citizenship, service and respect.

Clusters and Pathways Served by SkillsUSA

**Architecture and Construction**
- Architectural Drafting
- HVACR
- Carpentry
- Sheet Metal
- Masonry
- Plumbing

All fourteen SkillsUSA Construction related contests align 100% with the industry Fundamentals and Occupational Safety course standards. Every student enrolled in a Construction related pathway will begin their course work by taking this introductory course. 12,600 students enrolled in Architecture & Construction pathways had the opportunity to compete in SkillsUSA Construction related contests in 2014. In Georgia there are approximately 83,000 craft jobs opened annually.

**Arts, AV Technology & Communication**
- Graphic Design
- Audio Video Technology & Film
- Digital Animation

There are nine Communications related contests which align with 90% of the standards in each introductory course for that pathway. Each student must take the corresponding introductory course. In 2014, there were 32,400 students enrolled in Communications related pathways, giving them the opportunity to participate in SkillsUSA competitive events. Multimedia is one of the fastest growing industries in the state of Georgia.

**Transportation, Distribution & Logistics**
- Maintenance & Light Repair
- Automotive Service Technology
- Master Automobile Service Technology
- Marine Engine Technology

SkillsUSA offers five Automobile related contests which align 100% with their related course standards. The National SkillsUSA Association does not yet offer contests in Logistics, nor Flight Operations. However, SkillsUSA Georgia offer two state only contests to serve these program areas. There are 21,850 students enrolled in Transportation related pathways.

**Law, Public Safety, Corrections & Security**
- Security and Protective Services
- Law Enforcement Services/Firefighter
- Corrections Services
- Law Enforcement Services/Criminal Investigations
- Fire and Emergency Services/Emergency Medical Responder
- Fire and Emergency Services/Public Safety Communications
- Fire and Emergency Services/Firefighting
- Legal Services/Applications of the Law
- Legal Services/Legal Administrative Services

There are four SkillsUSA contests that serve the 11,260 Law, Public Safety, Corrections & Security students in Georgia. Each competitive event aligns with at least five standards within each course offering.

**Human Services/Personal Care Services**
- Personal Care Services - Cosmetology
- Personal Care Services - Esthetics
- Personal Care Services - Nails
- Personal Care Services - Bathtime

SkillsUSA offers three contests within the Human Services/Cosmetology pathways. Each contest aligns at least 85% with the course standards.

Career, Technical and Agricultural Education (CTAE) is helping our nation address key challenges such as workforce development, student, achievement, economic vitality and global competitiveness.

Career and Technical Student Organizations (CTSOs) are key components to strong CTAE programs. They (CTSOs) integrate into CTAE programs and courses and extend teaching and learning through innovative programs, business and community partnerships and leadership experiences at the school, state and national levels.

- CTSOs provide relevant, engaging programs that improve student achievement, reduce dropout rates and help students discover the wide range of career options available.
- CTSOs engage the community and local businesses to help students understand global competition and chart effective and efficient pathways through high school and postsecondary education for their personal success.
- CTSO programs, such as industry based competitive events and community service, provide students with the opportunity to develop 21st Century Skills focused on creativity, problem solving, teamwork and goal setting.
- CTSOs bring relevance to the classroom and prepare students to be college and career ready.

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**MAKING AN IMPACT**

With more than 1 million student members nationwide, these 8 organizations have a definite impact on students’ overall college and career readiness.

Students who participate in CTSOs demonstrate higher elevations of academic engagement and motivation, civic engagement, career self-efficacy and employability skills than other students.

According to the National Research Center for Career and Technical Education, participating in leadership and professional development activities in a CTSO raises students’ educational aspirations.

Students who participate in school organizations in 10th grade have higher grade point averages and are more likely to be enrolled in college at 21 than other students.

**CTE programs are supported at the federal level by the Carl D. Perkins Career and Technical Education Improvement Act, which provides approximately $1.2 billion dollars in state grants annually to serve more than 14 million students nationwide.**

**Career and Technical Student Organizations are comprised of 8 not-for-profit organizations, specifically authorized by the Congress in the Perkins Act. CTSOs align with the 16 Career Clusters identified by the US Department of Education.**
The Georgia Career and Technical Instruction (CTI) program is designed to provide support services to high school students with disabilities enrolled in Career, Technical, and Agricultural Education (CTAE) courses. These courses give students with disabilities the opportunity to acquire the employability skills needed to transition to post-secondary education and/or the workforce. The CTI Career, Technical Student Organization (CTSO) offers students the opportunity to apply the skills learned in their respective career pathway to work-life experience. Georgia CTI offers 28 competitive events that align directly with Georgia’s pathway to work-life experience. Georgia CTI offers 28 competitive events that align directly with Georgia’s CTAE course curriculum and standards.

Standard one of all Georgia CTAE foundation courses state that students will demonstrate employability skills required of business and industry. Georgia CTI offers several competitive events that give students the opportunity to display the unique skills required in their chosen field. These include:

- Career Exploration/Job Interview
- Community/Civic Awareness
- Most Improved Person
- Occupational Creative Thinking
- Public Speaking
- School Project
- Team Career Skills

In addition to participation in Georgia CTI competitive events, CTI students are also encouraged to participate in one of the nationally recognized CTSOs that aligns closest to their career goals.

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The mission of HOSA is to enhance the delivery of compassionate, quality health care by providing opportunities for knowledge, skill and leadership development of all health science technology education students, therefore, helping students to meet the needs of the health care community.

U.S.A. News 100 Best Jobs

“Nearly 40% of our picks are Healthcare jobs”
6 in the Top 10 are Healthcare

#1 Dentist
#4 Nurse Practitioner
#5 Pharmacist
#6 Registered Nurse
#7 Physical Therapist
#8 Physician
#10 Dental Hygienist
#16 Phlebotomy

HOSA Competitive Events

Industry Credentials/Possible Articulation Credits (Post-secondary level)/Clinical Experience

- Dental Science
- Clinical Nursing
  - Nursing Assisting
- Pharmacology
- Allied Health & Medicine
  - Patient Care
    - Patient Care Tech
  - Sports Medicine
    - Exercise Physiology
  - Clinical Speciality
    - Allied Health & Medicine
    - Phlebotomy

- Dental - Possible Articulation Credits
- Certified Nursing Assistant
- Pharmacy Technician Exam
- Athletic Trainer Aide
- EKG Tech
- Phlebotomy Tech

PATHWAYS

“Impact Georgia HOSA is changing the future of healthcare by supplying skilled and enthusiastic individuals into the workforce every year. It is incredible to see the positive long-term impact Georgia HOSA is having on our society, economy and quality of health care.”

U.S. Senator Johnny Isakson (R-GA)
**DECA Mission:**
DECA prepares emerging leaders and entrepreneurs in marketing, finance, hospitality, and management in high schools and colleges around the globe.

Preparation for the DECA Competitive Events starts in the classroom where students learn management, entrepreneurship, hospitality, and tourism competencies, all of which are aligned to national and state curriculum standards. This alignment ensures that DECA is truly co-curricular. DECA's Comprehensive Learning Program integrates with classroom instruction, applies learning, connects to business and promotes competition. DECA Competitive Events provide exceptional opportunities for project-based instruction since the events are quite rigorous, especially the written events which require a 30 page manual and a 15 minute presentation. Therefore, most DECA members work with a business person to gain realistic insight and data for their events. Participation in the DECA Competitive Events ignites a fire in students that propels them to excel and continually improve in a global economy.

My name is Savvy Velpinan. As I entered South Forsyth High School 4 years ago, little did I know the impact Marketing and DECA would have on my life. I am proud to say that I have been an active Marketing student and DECA member at South Forsyth High School since my freshman year. Through my DECA career, I have gained unparalleled experiences and made friends and connections that will last a lifetime.

My DECA experience began my freshman year when I competed at the regional level and did not win. After my freshman year, I was proud to say that I made it to the DECA International Career Development Conference (ICDC) for the past three years, placing first at the Georgia Career Development Conference and first at the national level for the three years and placing in the top 40 at the International ICC.

The experiences gained through my Marketing classes and DECA competitions afforded me the opportunity to attend an extremely select business residency program at the University of Georgia's Terry Business College. As a result of this business residency program, I sort some incredible people, some of whom were also DECA members. As a senior, I was a DECA competition partner, and I was given the chance to compete in national entrepreneurship innovation in which we placed in the top 3 there in the nation and were flown to one of America's business hubs—Chicago, Illinois, to present our innovation ideas to a panel of top business executives.

This year, I was given the opportunity to serve as the Financial Manager of DECA's school store, The Bird Cage. Being the financial manager has provided me with organizational and analytical skills that parallel a real-world financial experience.

Recently, I was selected to attend a three-day interview for consideration for the Emory Business Scholar Award. Thousands of students applied for the award and 50 students were selected to participate in the interview process. I knew my DECA experience was the key to me winning the award. I interviewed for the award and thrived of all the experiences over the past four years in Marketing and DECA. I felt that I was well prepared and a step ahead of any event, due to all of my DECA experience throughout my high school career. I am thrilled to announce that I was awarded a scholarship, valued at $320,000 to Emory's Business School.

In addition, because of my experience working as the financial manager of our school store, I was chosen to be part of the Emory Investment Organization in which I will be part of a 5 person team to manage $100,000 of the Emory Business School endowment.

The experiences, opportunities, and connections I have made in my DECA career cannot be summarized by any other program in the world.
**FCCLA MISSION:**
Family, Career and Community Leaders of America (FCCLA), founded in 1945, promotes personal growth and leadership development through family and consumer sciences education. Focusing on the multiple roles of family member, wage earner, and community leader, members develop skills for life through Character Development, Interpersonal Communication, Career Preparation, Creative and Critical Thinking, and Practical Knowledge.

Georgia FCCLA has 35,903 members in public schools, and has the largest membership in the nation.

**Hospitality and Tourism**
Culinary Arts
Culinary Arts students have the opportunity to participate in both National and State FCCLA competitive events. State events include baking and pastry, creative garnishes, knife skills, chicken fabrication and food safety and sanitation. Students in the culinary pathway can pursue careers as a sous chef, pastry chef, garde manger chef or executive chef. There are 44 competitive events/national programs that align with the Culinary Arts Pathway.

Education and Training
Early Childhood Care and Education I
Early Childhood Care and Education II
Teaching as a Profession
The Early Childhood Care and Education pathways focus on the growth and development of children from birth to 8 years of age. Career pathways in education introduce the foundations of education, combined with knowledge and skills gained in both the classroom and in the workplace, to prepare students for a career in education. There are 37 FCCLA competitive events/national programs that align with the Education and Training Cluster.

**Human Services**
Interiors, Fashion and Textiles
Nutrition and Food Science
Housing and Community Management
Middle School Family and Consumer Sciences
Educational programs in this cluster prepare students for employment in career pathways that relate to families and human needs, such as family and community services, personal care, and consumer services. There are 46 FCCLA competitive events/national programs that align with the Human Services Cluster.
FBLA's mission is to bring business and education together in a positive working relationship through innovative leadership and career development programs.

FBLA's competitive events at the Region, State, and National Leadership Conferences play an integral role in the mission of FBLA. They prepare students for successful careers in business by providing opportunities to apply classroom concepts in a workforce-simulated competitive environment.

US News & World Report Top 50 Jobs of Next 10 Years:

Business Management & Administration

Training & Development Specialist, Convention & Meeting Planners, Operations Research Analyst, Business Operations Manager, HR Specialist

Finance

Financial Analyst, Accountants, Financial Advisor, Logistician, Insurance Agent, Bookkeeping/Accounting/Auditing Clerk, Loan Officer

Information Technology

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US News & World Report Top 50 Jobs of Next 10 Years:

- Business Ethics, Business Presentation, Community Service Project
- Electronic Career Portfolio, Emerging Business Issues, FBLA Principles & Business Ethics, Business Presentation
- Community Service Project, Impromptu Speaking
- Business Ethics, Business Presentation, Community Service Project
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<tbody>
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**U.S.A. News 100 Best Jobs**

"Nearly 40% of our picks are Healthcare jobs"

6 in the Top 10 are Healthcare

| #1 Nursing | #2 Dentist | #3 Physician | #4 Medical Assistant | #5 Physical Therapist | #6 Respiratory Therapist | #7 Medical Office Administrator | #8 Nurse Practitioner | #9 Pharmacy Technician | #10 Medical Assistant | #11 Pharmacy Technician | #12 Medical Assistant | #13 Pharmacy Technician | #14 Medical Assistant | #15 Pharmacy Technician | #16 Pharmacy Technician |

"Georgia HOSA is a student organization that is changing the future of healthcare by supplying skilled and enthusiastic candidates into the workforce every year. It is incredible to see the positive long-term impact Georgia HOSA is having on our society, economy and quality of health care."

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- Community/Civic Awareness
- Most Improved Person
- Occupational Creative Thinking
- Public Speaking
- School Project
- Team Career Skills

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- Carpentry
- Plumbing

All fourteen SkillsUSA Construction related contests align 100% with the Industry Fundamentals and Occupational Safety course standards. Every student enrolled in a Construction related pathway will begin their course work by taking this introductory course. 12,600 students enrolled in Architecture & Construction pathways had the opportunity to compete in SkillsUSA Construction related contests in 2014. In Georgia there are approximately 83,000 craft jobs opened annually.

**Arts, AV Technology & Communication**
- Graphic Design
- Audio/Video Technology & Film

There are nine Communications related contests which align with 90% of the standards in each introductory course for that pathway. Each student must take the corresponding introductory course. In 2014, there were 32,400 students enrolled in Communications related pathways, giving them the opportunity to participate in SkillsUSA competitive events. Multimedia is one of the fastest growing industries in the state of Georgia.

Career, Technical and Agricultural Education (CTAE) is helping our nation address key challenges such as workforce development, student, achievement, economic vitality and global competitiveness.

Career and Technical Student Organizations (CTSOs) are key components to strong CTAE programs. They (CTSOs) integrate into CTAE programs and courses and extend teaching and learning through innovative programs, business and community partnerships and leadership experiences at the school, state and national levels.

- CTSOs provide relevant, engaging programs that improve student achievement, reduce dropout rates and help students discover the wide range of career options available.
- CTSOs engage the community and local businesses to help students understand global competition and chart effective and efficient pathways through high school and postsecondary education for their personal success.
- CTSOs provide students with the opportunity to develop 21st Century Skills focused on creativity, problem solving, teamwork and goal setting.
- CTSOs bring relevance to the classroom and prepare students to be college and career ready.

MAKING AN IMPACT

With more than 1 million student members nationwide, these 8 organizations have a definite impact on students’ overall college and career readiness.

Students who participate in CTSOs demonstrate higher levels of academic engagement and motivation, civic engagement, career self-efficacy and employability skills than other students.

Students who participate in school organizations in 10th grade have higher grade point averages and are more likely to be enrolled in college at 21 than other students.

**DID YOU KNOW?**

CTE programs are supported at the federal level by the Carl D. Perkins Career and Technical Education Improvement Act, which provides approximately $1.2 billion dollars in state grants annually to serve more than 14 million students nationwide.

Career and Technical Student Organizations are comprised of 8 not-for-profit organizations, specifically authorized by the Congress in the Perkins Act.

CTSOs align with the 16 Career Clusters identified by the US Department of Education.
Dual Enrollment and Post-Secondary Articulation

Dual Enrollment Alignment
Alignment of CTSO activities and post-secondary programs is achieved through Transition Career Partnerships which are designed to prepare students for college and career opportunities leading students to postsecondary institutions for an industry recognized certification or licensure, an associate and/or higher college degree, and/or successful employment.

Move On When Ready is a dual enrollment program for students to attend a postsecondary institution full-time during their junior and/or senior year of high school and receive high school credit and college credit simultaneously while attending college classes on the college campus, full-time.

In successful collaboration, Georgia Department of Education’s CTAE Program Specialists work directly with the staff of the Technical College System of Georgia (TCSG) to produce quality CTAE course alignment. More than 325 courses are presently aligned and the complete matrix can be viewed at www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Documents/Dual-Enrollment-Matrix-Spring-2015.pdf.

Course alignment is also an ongoing, interactive process based on the continuum of requests from local school systems.

Vision
To form partnerships that build workforce development opportunities for students through career pathways.

Mission
To strengthen the link between secondary and postsecondary education and to maximize the successful, seamless transition of students from one educational level to another that includes increased student academic, career and technical achievement. To assure that every student will be prepared to advance to a successful career and understand the benefits of lifelong learning.

Goals:

01 Produce graduates who are ready for college level studies and/or direct entry into a high skill, high wage and high demand workforce.

02 Provide guidance to local systems in developing appropriate career pathways to increase and improve opportunities for students.

03 Involve and engage business and industry through establishment of a local business council for the purpose of providing resources and support for secondary Career Technical Education and engaging students in workforce development.

04 Assist in the development and implementation of a more effective seamless transition process.
The Technology Student Association fosters personal growth, leadership and opportunities in Science, Technology, Engineering and Mathematics (STEM); members apply and integrate these concepts through co-curricular activities, competitions, and related programs.

**Competitions:**
TSA provides rules and guidelines for all middle school and high school level competitive events that originated from ‘best practice’ classroom activities from around the country.

At State and National Conferences, students are challenged to use and improve their STEM skills in both team and individual events in such areas as: communication; design and engineering; environmental systems; transportation; and manufacturing/ construction.

All TSA competitions are aligned with STEM standards; ten core leadership skills (communication, creative thinking, critical thinking, decision making, ethics, evaluation, organization, problem solving, self-esteem, and teamwork); and the 17 Career Clusters.

TSA was one of the first to align its competitive events to STEM standards. Each event was matched with the available standards from Science and Math, the Standards for Technological Literacy, and CRITERIA FOR ACCREDITING ENGINEERING PROGRAMS (Accreditation Board for Engineering and Technology (ABET, Inc.))

In addition to the National TSA Official Competition, TSA also provides other signature programs and initiatives: In cooperation with the U.S. Army Educational Outreach Program, the Junior Solar Sprint is offered to the middle school students. TEAMS (Tests of Engineering Aptitude, Mathematics and Science) offers an annual STEM competition to teams of math, science and engineering students.

TSA VEX Robotics is an engaging, multifaceted event steeped in engineering students.

STEM education is intrinsically exciting, rewarding, and meaningful for instructors and students alike. It is our belief that, as with STEM education, TSA’s activities provide the same kind of stimulation, challenge, and relevancy for all involved.

**Standards Alignment for Program Concentration:**
Engineering and Technology: TSA Event Alignment: All competitive events meet at least one or all of the standards for all STEM, Manufacturing and Energy pathway courses.

**Competitive Events & Curriculum Alignment**

**Georgia CTSOs are co-curricular!**

This diagram illustrates how the instructional program consists of three overlapping parts: classroom instruction, hands-on lab activities, and CTSO activities. Each element of the diagram is a distinct part of the CTAE division but they are so fully intertwined that they cannot be fully separated if a complete program is to be offered.

When integrated into the Career, Technical and Agricultural Education curriculum, the CTSO is a powerful instructional tool that offers organized curriculum-oriented activities that help students maximize employability, gain leadership opportunities, and develop personal skills which enable them to develop into productive members of society. CTSOs are co-curricular organizations with leadership programs and competitive events which reflect current curriculum standards and competencies for the instructional programs they serve. Teachers infuse the CTSO’s activities into the instructional activities, thereby helping students see the real world value of their academic studies.

Georgia CTSOs are committed to the growth of students enrolled in all CTAE career pathways. Diversity is defined to be the inclusion of all qualified persons whose differences may include, but are not limited to: age, ethnicity, physical ability, gender, race, or religion.

Currently, in the state of Georgia, there are seven nationally recognized Career and Technical Student Organizations: DECA, Family, Career and Community Leaders of America (FCCCLA), FFA, Future Business Leaders of America (FBLA), HOSA - Future Health Professionals, SkillsUSA and Technology Student Association (TSA). Georgia is also host to Career and Technical Instruction (CTI), a Georgia only CTSO designed specifically for students with disabilities.
Career and Technical Student Organizations (CTSOs) are a vital part of Career, Technical and Agricultural Education (CTAE). CTSOs play an integral role in preparing students to become college and career ready members of society who hold productive leadership roles in their communities. CTSOs are committed to the growth of students in all CTAE career pathways.

These organizations provide motivation, leadership training, and career development opportunities for students enrolled in Career, Technical and Agricultural Education programs in middle and high schools and enhance their occupational, employability and leadership skills through various activities such as conferences, award programs, service projects, and competitive events. These organizations conduct activities and events at the local, state and national levels in which students can participate and compete.

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CTAE Programs in Georgia

Total Georgia Student Enrollment 524,008 Students in Grades 9-12

Student Enrollment in CTSO Courses 429,338 Students in Grades 9-12

CTAE High School Concentrators 56.08% of all Students in Grades 9-12

Graduation Rate for CTSO Concentrators 92.42%

Academic Achievements of CTSO Students 92.42% of CTSO Concentrators who took the End of Course Test (EOCT) met or exceeded state standards in English/Language Arts in FY 2013

To review the complete series of CTSO competitive events alignment spreadsheets, please visit www.gactso.org

STEM-SEDG-1: Demonstrate employability skills required by business and industry.

STEM-SEDG-2: Demonstrate and follow safety, health, and technology practices and solutions.

STEM-SEDG-3: Analyze applied math required to formulate, analyze, and verify engineering practices and solutions.

STEM-SEDG-4: Identify associated career tracks.

STEM-SEDG-5: Demonstrate the application of STEM principles.

STEM-SEDG-6: Demonstrate purpose and correct application of sectional views.

STEM-SEDG-7: Cite evidence of developments in engineering graphics and engineering.

STEM-SEDG-8: Present appropriate views of an object.

STEM-SEDG-9: Demonstrate technology problem solving in the real world.

STEM-SEDG-10: Students explore how related career and technology student organizations are integral parts of career and technology education courses.

STEM-FET-1: Demonstrate employability skills required by business and industry.

STEM-FET-2: Develop an understanding of engineering and technology and describe the principal fields of engineering specializations (ex. aeronautical, automotive, chemical, civil, industrial, mechanical, etc.).

STEM-FET-3: Identify the history of technology and present, and future.

STEM-FET-4: Demonstrate and follow safety, health, and technology practices and solutions.

STEM-FET-5: Identify criteria of usage, care, and maintenance for tools and machines.

STEM-FET-6: Demonstrate purpose and correct application of pictorial views.

STEM-FET-7: Use appropriate technology to collect, record, manipulate, analyze, and report data.

STEM-FET-8: Present appropriate views of an object.

STEM-FET-9: Demonstrate the application of STEM principles.

STEM-FET-10: Students explore how related career and technology student organizations are integral parts of career and technology education courses.

Students will develop leadership, interpersonal, and problem-solving skills through participation in co-curricular activities associated with the Technology Student Association.