

# ECCA OPEN HOUSE 2024-2025

ENGINEERING RM. 312 MR. PARKER











### AARON PARKER **DIRECTOR OF ENGINEERING** ECCA TSA ADVISOR **GATSA BOD PRESIDENT 2020-2021**



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technology

If you would like a copy of this presentation, please visit my website and click on the **OPEN HOUSE PRESENTATION link.** 

## RECURED TENS

### YOU WILL NEED THE FOLLOWING ITEMS:

- WIRED EARBUDS/HEADPHONES
- PENS (BLUE OR BLACK INK ONLY)
- PENCILS (REGULAR OR MECHANICAL)
- GRAPHING COMPOSITION NOTEBOOK  $\circ OR$
- 3 PRONG FOLDER (PLASTIC PREFERRED)

## FOUNDATIONS OF ENGNEERING

**DURING THE FOUNDATIONS OF ENGINEERING,** YOU WILL LEARN THE BASICS OF WHAT IT TAKES TO BE AN ENGINEER. WE WILL LEARN THE ENGINEERING DESIGN PROCESS, THE BASICS OF DIFFERENT TYPES OF SKETCHING. **BASIC 3D MODELING AND COMPUTER AIDED** DESIGNING (CAD) SKILLS, MEASUREMENT AND **CONVERSIONS, GEOMETRY, AND DESIGN TO** SOLVE ALL MANNER OF DIFFERENT PROBLEMS.

# ENGINEERING CONCEPTS

ENGINEERING CONCEPTS IS THE SECOND COURSE IN THE ENGINEERING AND TECHNOLOGY PATHWAY. STUDENTS WILL LEARN TO DESIGN TECHNICAL SOLUTIONS TO **ENGINEERING PROBLEMS USING A WHOLE SYSTEMS APPROACH TO ENGINEERING DESIGN. STUDENTS WILL DEMONSTRATE THE APPLICATION OF MATHEMATICAL** TOOLS, TEAMWORK, AND COMMUNICATIONS SKILLS IN SOLVING VARIOUS DESIGN CHALLENGES, WHILE MAINTAINING A SAFE WORK ENVIRONMENT. THE PREREQUISITE FOR THIS COURSE IS FOUNDATIONS OF ENGINEERING AND TECHNOLOGY.

ENGINEERING APPLICATIONS ENGINEERING APPLICATIONS IS THE THIRD COURSE IN THE ENGINEERING AND TECHNOLOGY PATHWAY. STUDENTS WILL APPLY THEIR KNOWLEDGE OF SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH (STEM) TO **DEVELOP SOLUTIONS TO TECHNOLOGICAL PROBLEMS.** SOLUTIONS WILL BE DEVELOPED USING A COMBINATION **OF ENGINEERING SOFTWARE AND PROTOTYPE PRODUCTION PROCESSES. STUDENTS WILL USE MARKET** RESEARCH, COST BENEFIT ANALYSIS, AND AN UNDERSTANDING OF THE DESIGN CYCLE TO CREATE AND PRESENT DESIGN, MARKETING, AND BUSINESS PLANS FOR THEIR SOLUTIONS. A CAPSTONE PROJECT WILL ALLOW STUDENTS TO DEMONSTRATE THEIR DEPTH OF KNOWLEDGE OF THE ENGINEERING DESIGN PROCESS AND PREPARE THEM FOR FUTURE OPPORTUNITIES IN THE FIELD OF ENGINEERING. THE PREREQUISITE FOR THIS COURSE IS ENGINEERING CONCEPTS.



## 

TEMMOLOGY STUDENT ASSOCIATION

18980

June 4-9, 2024

June 9-12, 2024

June 26-June 30, 2024

**2024-2025 Event Calendar** GA TSA State Officer Training Workshop, Covington followed by CTSO State Registrati Officer Training, Atlanta & FFA-FCCLA Camp - Covington, GA Conference GACTE Conference, Gas South Convention Ctr. - Duluth, GA National TSA Conference, Orlando, FL NLC Beginning of Georgia TSA Year - membership and fiscal

July 1, 2024		Beginning of Georgia TSA Year – membership and fiscal	
August 15, 2024		CTAERN GA TSA Quality Program Series: Back to School/CORE/Tech Day/Six Flags	
August 10-12, 2024		Joint Meeting - Executive Committee & Advisory Council, Columbus, GA	
August 13, 2024		Deadline – Registration for CORE: Chapter Officer Retreat for Excellence (See roles for events that are judged at CORE or Pre-GA National Fair)	
August 29, 2024		CTAERN GA TSA Quality Program Series: Affiliation & Tech Day and Six Flags	
September 2, 2024		Deadline – Required Fair registration account password deadline Tech Day	
September 4, 2024		Deadline – Technology Day Registration Deadline (check rules for events that are judged at CORE or Pre-GA National Fair)	
September 7-9, 2024	CORE	CORE: Chapter Officer Retreat for Excellence, Kaplan-Mitchell Retreat - Clayton, GA- Preliminary Tech Day Events indeed at CORE	
September 13, 2024		Deadline – Registration for Six Flags CTSO Rally: (See roles for events that are judged at Six Flags or Pre-Judged)	
October 1, 2024		Deadline- Chapter Affiliation for Extended Day Grant Teachers	
October 4-6, 2024		GA TSA State Officer Training, Warner Robins, GA	
October 7, 2024	Tech Day	Annual Technology Day at the GA National Fairgrounds, Perry, GA	
October 10, 2024		CTAERN GA TSA Quality Program Series: Chapter Promo & FLC	
October 7-11, 2024		TSA Week – Celebrate and promote your chapter	
October 16, 2024	Six Flags CTSO Day	New: Six Flags CTSO Railies - One Day competitions and Raily	
October 18, 2024		Deadline – Registration for Fail Leadership Conference including: Armada Bost Race, EV Raily, White Star Chapter Applications, Statesman Award Test, Vex Robotics and FLL Qualifiers	
November 8-10, 2024	FLC	GA TSA Fall Leadership Conference, Jekyll Island, GA	
January 15, 2025		GA TSA State Officer Candidate Applications Upload Deadline	
January 24-25, 2025		Joint Meeting - Executive Committee & Advisory Council, Athens, GA	
January 25, 2025 GA TSA State Officer Candidate Interviews – A		GA TSA State Officer Candidate Interviews – Athens	
February 6-8, 2025		GETEA Professional Association Annual Conference – UGA Hotel, Athens	
		CTAERN GA TSA Quality Program Series: SLC Event Coord Training	
February 14, 2025		Deadline – Registration for State Conf, Outstanding Student Applications, Pitchford Scholarship, and Posted Pre-Conference Competitions	
February, 4-5, 2025		GA CTSO Legislative Expo – Capital Building Atlanta	
March 4, 2025		CTAERN GA TSA Quality Program Series: Everything SLC	
March 12-15, 2025	SLC	2025 State Leadership Conference, Classic Center in Athens, GA	
March 27, 2025		CTAERN GA TSA Quality Program Series: Everything National Conference	
April 2-5, 2025		ITEEA Conference, St. Louis, MO	
April 24-25, 2025		Initial 25-26 Board of Directors Executive Committee Planning Mtg.	
June 3-8, 2025		GA TSA State Officer Training Workshop, Covington followed by CTSO State Officer Training, FFA-FCCLA Camp, Covington, GA	

National TSA Conference, Nashville, TN

Per Perso \$190.00 ea CORE (All Inclusiv Saturday-Monday September 7-9, 2024 Tech Day \$35.00 each Monday Attendees October 7, 2024 \$85.00 eacl Six Flags CTSO Day Attendees October 16, 2024 \$105.00 ea \$55.00 Gue \*No shirt or Lunch inclui Fall Leadership Conf. Friday-Sunday November 8-10, 2024 + optional ( fees for VEX VEX IQ, Electrathor Armada evo State Leadership \$115 each Conf. (Wed 3/12 - EV \$55 Guests Roce/Conf Check In)

Wednesday-Saturday

March 12-15, 2025

Varsion Updated: July 2024 - RSP

NLC

June 27-July 1, 2025



### 6A TSA In-State Conference Planning Details:

Approved 6/15/24

Registration Per Person	Location	Registration Includes	Competitive Events	
\$190.00 each (All Inclusive)	Clayton, GA	Includes: Lodging, Food, Materials, Facility, Statesman Test, security, insurance, camp safety staff, on-site nurse.	4 Pre-Conference Tech Day events and Statesman Test	
\$35.00 each All Attendees	Perry, GA	Entry, Rally and Competition Materials, Judges	4 pre-conference competitive events and 7 On-site Tech Day Competitive Events	
\$85.00 each All Attendees	Private Event for Multiple CTSOs at Six Flags Over GA	Entry, TSA Rally and Competition Materials, Judges	On-site TSA Competitive Events / lunch / Rally and Rides	
\$105.00 each \$55.00 Guest" "No shirt or Lunch included + optional entry fees for VEX, VEX IQ, Electrathon and Armada events	Jekyll Island, GA	Chapter President Breakfast, Advisor Breakfast and Lunch Provided on Saturday, Conference T-Shirt, Statesman Test, Registration & Conference Materials, Keynote Speaker, JICC Facilities, Villas by the Sea Conf. Dance	VEX Robotics Qualifier, VEX IQ Qualifier, GA TSA Lithium Ion and Acid Core Division EV Rally, Armada Cardboard Boat Race, Sandcastle Challenge, Island Film Contest, competitive events and Statesman Test.	
\$115 each \$55 Guests & Chaperones	Athens, GA	Lunch on Thursday, Conference Center costs, catering, Printing & supplies, judges computers, Keynote Speaker	Middle and High School Official TSA Competitive Events. State Officer Campaigns, Business Session, State Championships and National Conference Qualifiers, Scholarships	

### TSA EVENTS (MONETARY BREAK DOWN)

**CORE - \$190** COVERS EVERYTHING EXCEPT LUNCH ON THE WAY THERE AND LUNCH ON THE WAY HOME.

<u>TECH DAY - \$35</u> PLUS LUNCH AT THE FAIR - SUPPER ON THE WAY HOME - SPENDING MONEY AT THE FAIR "UNLIMITED" RIDE WRISTBAND IS \$25 (IT'S NOT UNLIMITED...) (\$40 IS USUALLY PLENTY FOR FOOD BUT FAIR FOOD IS EXPENSIVE).

> <u>SIX FLAGS - \$85</u> **ALL RIDES ARE INCLUDED AND LUNCH IS INCLUDED** ONLY NEED MONEY FOR SUPPER ON THE WAY HOME (\$10-15 SHOULD PLENTY).

FLC - \$105 + VEX FEE AND/OR ELECTRATHON FEE ALSO, HOTEL FOR 2 NIGHTS, AS WELL AS FOOD/SPENDING MONEY **REGISTRATION FEE INCLUDED LUNCH ON ONE OF THE DAYS** 

### <u>SLC - \$115</u>

ALSO, HOTEL FOR 3 NIGHTS, AS WELL AS FOOD/SPENDING MONEY **REGISTRATION FEE INCLUDED LUNCH ON ONE OF THE DAYS** 

TYPICALLY \$30-\$40 PER DAY IS MORE THAN ENOUGH FOR FOOD AT FLC & SLC

HOTEL COST(S): **APPROX \$150-175/PERSON - FLC & SLC (PENDING FUNDRAISERS)** 

## **SLC COMPETITI**

High School Events – 2023-24	SLC Entries per Chapter	
Animatronics	1	
Architectural Design	1	
Audio Podcasting	1	
Biotechnology Design	1	
Board Game Design	1	
Chapter Team	1	
Children's Stories	1	
Coding	1	
Computer-Aided Design (CAD), Architecture	1	
Computer-Aided Design (CAD), Engineering	1	
Data Science and Analytics	1	
Debating Technological Issues	1	
Digital Video Production	1	
Dragster Design	2	
Drone Challenge (UAV)	1	
Electrical Applications – GA TSA only	2	
Engineering Design	1	
Essays on Technology	1	
Extemporaneous Speech	1	
Fashion Design and Technology	1	
Flight Endurance	2	

Forensic Technolog Future Technology GA TSA Electrical Ve Geospatial Technolo GA TSA Legacy Cha Manufacturing Prot Music Production On Demand Video **Outstanding Studer** Photographic Techr Prepared Presentat Promotional Design Software Developm Structural Design a System Control Tec Technology Bowl **Technology** Probler Transportation Mod Video Game Design Virtual Reality Visua Vex VRC Robotics Webmaster Vex Robotics Webmaster



gy	1
Teacher	2
ehicle Rally – GA TSA only	2
logy	1
apter – GA TSA only	1
ototype	1
	1
	1
ent – GA TSA only	1
nology	1
tion	1
n	1
ment	1
and Engineering	1
chnology	1
	1
m Solving	1
odeling	2
n	1
alization (VR)	1
	2
	1
	2
	1

NATIONAL TSA CONFERENCE **REGISTRATION** - \$120 **DATES** - JUNE 27- JULY 1 **LOCATION - NASHVILLE, TN** STUDENTS CAN EARN TRAVEL/REGISTRATION **SCHOLARSHIPS BY WINNING COMPETITIONS AT STATE CONFERENCE** HOTEL WOULD BE A GOOD BIT HIGHER THAN **OTHER CONFERENCES BECAUSE IT WOULD BE** FOR 5 NIGHTS INSTEAD OF 3 AND THE RATES ARE MUCH HIGHER IN NASHVILLE. (IT TRULY DEPENDS ON THE NUMBER OF STUDENTS ATTENDING)

### First Day Forms Checksheet

Each Student/Parent is responsible to complete these forms for the start of the school year.

**Online** (login to Parent Portal)

- ECSD Student and Parent Handbook acknowledgement of receipt
- Student Health Form
- □ Be Smart Form
- □ Verification Form

**On Paper** (Needs to be turned in no later than 8/16)

- ECCA Student and Parent Handbook acknowledgement of receipt
- □ 24-25 Parent Occupational Survey
- □ Class Syllabus

## QUESTIONS? EMAIL: amparker@effingham.k12.ga.us PHONE: 754-5610 EXT. 3032

