



East Cooper Center for Advanced Studies Summer Academies 2021

VEX Robotics Academy & Gateway Academy Girls' Summer Engineering Camp

Camp Information and What to Expect!

The East Cooper Center for Advanced Studies' Engineering teachers are excited to offer two Academy camps this summer; the VEX Academy camp and the Gateway Academy Girls' Summer Engineering Camp. Both Academy camps will be held Monday, July 26th -Thursday, July 29, 2021 from 9am-4pm so please choose the camp that best suits your interests.

Vex Robotics Academy is a great way to learn about robotics, through collaboration and competition. Students will be partnered with another student and will construct a VEX Clawbot. This base robot configuration will be used throughout the week. Challenges will be presented, driving modifications to the Clawbot. Each challenge is designed to familiarize the camper with situations that may be presented in competition situations. **Eligible to rising 7th-12th graders.**

Gateway Academy Girls' Summer Engineering Camp is an **all-girl**, full-day (9 a.m. – 4p.m.) engineering camp for **24 rising ninth graders** who plan to attend Wando High School or Lucy Beckham High School in the fall. Camp activities will include building cool stuff, using state-of-the-art design software, and participating in games and competitions. If your daughter enjoys a challenge and likes spending time with friends who share similar interests, this camp is a great way to do that, as well as get acquainted with the school and the engineering curriculum.

If interested in applying, please read the information below and **fill out the application by May 31, 2021.** [Application Link](#) or QR Scan the QR Code.



1. Daily Routine

Arrive between 8:45-9:00am, each day.

Depart between 4:00-4:15pm, each day.

Vex Camp will be held in room L-322.

Girl's Gateway Academy will be held in room L-310

Lunch is included in this program. Participants are welcome to bring snacks and water bottles. Participants with severe food allergies should plan on bringing lunch and snacks. Food and drinks need to be kept away from all computers and equipment.

2. Camp Payment

Payment is due upon arrival at camp on Monday July 26 unless arrangements are made with Chris Sjolander or Kathryn Johnston prior to the start of camp. **The cost of each camp is \$150.00.** Checks can be made payable to Wando MSE Booster Fund, with VEX Robotics Academy or Girl's Gateway Academy on the memo line. Sorry, we do not have the capability to accept credit cards. This tuition is used to cover the cost of food, prizes, supplies, and activities.

3. Attire

Comfortable, school appropriate, clothes are in order for this camp. Participants will be in and out of the competition field. Because no shoes are allowed to be worn on the field, it is recommended that they wear socks, or bring a pair to wear if they take the shoes off. The floors should be waxed and clean, but you never know.

4. Electronics

Cell phones and other electronic devices are welcome. All school rules do apply. I recommend, and encourage, they create a one hour playlist. That way, each participant can play their favorites for us! If they leave it to the teachers, it will be a hodgepodge of 80's, classic rock, and some other stuff. Sending and receiving cell phone calls in school classrooms are challenging, as cell signal is weak, at best. Please plan to text your student, or contact the teachers via email, or by calling the school. (chris_sjolander@charleston.k12.sc.us) (kathryn_johnston@charleston.k12.sc.us)

5. VEX Academy Camp Activities

Time Slot	Monday	Tuesday	Wednesday	Thursday
8:45-9:00	Arrival	Arrival	Arrival	Arrival
AM Session	Robot Build	New Challenge	New Challenge	New Challenge
12:00 - 1:00	Lunch	Lunch	Lunch	Lunch
PM Session	New Challenge	New Challenge	New Challenge	Tournament Challenge
3:45	Clean Up	Clean Up	Clean Up	Clean Up
4:00	Depart	Depart	Depart	Depart

Returning Team 3859 VEX Robotics Competition participants will work on their competition robots throughout the week, along with mentoring camp participants.

6. Girl's Gateway Engineering Academy Activities

Time Slot	Monday	Tuesday	Wednesday	Thursday
8:45-9:00	Arrival	Arrival	Arrival	Arrival
AM Session	Get to Know You Session; T-shirt Design & Instant Challenge	Field Trip (depending on Covid Restrictions) or Makerspace Build	Veeblefetzter Build	Laser Cutting Design Challenge
12:00 - 1:00	Lunch	Lunch	Lunch	Lunch
PM Session	3D Gadget Design (Start 3D printing designs) & Instant Challenge	Veeblefetzter Design	Veeblefetzter Competition & Instant Challenge & Laser Cutting Design Challenge	Laser Cutting Design Challenge Printing and Build & Open House (depending on Covid Restrictions)
3:45	Clean Up	Clean Up	Clean Up	Clean Up
4:00	Depart	Depart	Depart	Depart

7. Thursday Afternoon

VEX Academy Camp Tournament and Awards

We will conduct a mini-tournament during the afternoon session. It will start around 1:00 and will last until 2:30. From 2:30 - 3:15, participants will be disassembling their robots and cleaning up. A brief awards ceremony will be held at approximately 3:15pm.

Girls' Gateway Engineering Academy Camp Highlights

The girls will showcase their work over the week and the teacher will provide a brief overview of engineering classes offered in East Cooper High Schools starting at 3:15pm.