



the stars challenge

CODE SECRETS Girls, Science and Coding

KEY INFORMATION

June 26:
Application deadline

June 30:
Notification of
Acceptance
by e-mail no later
than June 30

Class Dates:
July 9 to July 13

Tuition is \$300 for
the five-day course.

Apply on-line at
www.starschallenge.org

Come Code with Us

If you want to be a veterinarian or an environmental scientist then of course you need to know how to read, how to write and how to do basic math. But what if you also knew how to code?

This program will be a hands on adventure into the world of computers and science. You'll be exposed to coding and the use of sensors to gather information from the world around you. You need to be curious and interested in exploring. You don't need to know computer programming.

We're excited to be able to operate out of the research wing at High Technology High School



(HTHS). Mr. Roche will be coordinating his team of TAs and guest speakers who are current HTHS students, girls who have already taken the course, and HTHS alumni working at Google, Facebook, and in university settings.

Dates and Times

Classes will meet from 8:00 AM – 1:00 PM at HTHS on the campus of Brookdale Community College. Students must provide their own transportation and should bring their own snacks and lunch.

Pre-requisites

The program is open to girls who have completed the 6th or 7th grade by June, 2018. Students must have earned a "B" or better in the current year's science course.

S science
C coding
I imagining
E experimenting
N networking
C creating
E enjoying

Let's start with enjoying - We promise you a fun, fast-paced week! We'll introduce you to building circuits and a few types of sensors and how they actually "sense" an environment. We'll help you understand basic principles common to programming languages and get you started on coding. From there, what can you imagine creating with the ability to sense and code and build?

We'll experiment using Arduino microcontrollers and other microprocessors that you can program and play with. Lastly, networking with successful students and professionals who use coding everyday will open your eyes to new possibilities. Back to enjoying - "sound like fun?" - you're the student we want in this course!



Did you enjoy us having older students and coding professionals visit and interact with you?

"Yes! I enjoyed it because it gave a little perspective on how coding can be used, and by people not much older than me."

"Yes, because they helped me to believe that it's possible that one day I can create something amazing like they did."

"Yes; I enjoyed having different perspectives on everything and seeing how what we are doing affects the real world."



What was the most surprising thing that you may have learned about yourself?

"I'm pretty good at coding"

"That I was able to understand coding with very little problems"



Did you talk to your family about any of the things we did in class?

"I talked about the programming, the challenges, the new girls I was meeting and the visitors."

"I talked about what we did everyday when I got in the car."



What did you like best about this course?

"Being with girls like me"

