

# Summer Bridge Program for STEM Students (2016-2017)

AKA SCIENCE SPECTACULAR

SHAY BEAN – CHATTANOOGA STATE COMMUNITY COLLEGE





# Science Spectacular (2016-2017)

**AKA SUMMER BRIDGE PROGRAM FOR STEM  
STUDENTS**



# Goals

- ▶ provide activities, support, and mentors for the participating students' first year at Chattanooga State,
- ▶ create a cohort learning community that provides peer-to-peer support and engagement, and
- ▶ support this cohort through their first year of college and on to successful completion and transfer to a 4-year program.



# Outcomes

- ▶ enroll at least 16 students to participate in the program,
- ▶ track student progression from fall to spring, with an expectation that at least 80% of the cohort will persist, and
- ▶ track student GPA, with the expectation that at least 50% of students will earn 3.0 or above each semester.



# Originally Planned

- ▶ Recruit in high schools late April, early May 2016
- ▶ Run the Bridge program in late July-early August
- ▶ Continue to meet with and mentor students throughout year





## Think You Might Like a Career in Science?

We're looking for motivated High School seniors  
committed to attending Chattanooga State in the fall.

Spend 2 Weeks for FREE this summer exploring

**Biology, Chemistry, Physics,  
Environmental Science**



**Application Deadline:**  
May 31, 2016

**Camp Dates:**  
July 25 - August 5  
2016

**Online Application:** <http://goo.gl/forms/5Xue9XtyJo>

**Recommendation:** <http://goo.gl/forms/LhvLt4w3xu>

**Academic Requirements:** Curiosity and a Love of Science

**For More Information Contact:** [Shay.Bean@chattanoogastate.edu](mailto:Shay.Bean@chattanoogastate.edu)



# Result?

- ▶ One student applied, but indicated she wouldn't begin at Chattanooga State until Fall 2017 (she did not attend even then)
- ▶ Scrapped plans for Bridge and began to reevaluate and revise
- ▶ Three more students applied in late June/early July, and one of those students did join the program and persist through Spring 2017



# What was the new plan?

- ▶ Recruit in fall
- ▶ Monthly meetings: speakers, field trips
- ▶ Faculty mentors: advisors, participate
- ▶ Capstone Trip: Atlanta
  - ▶ Georgia Aquarium
  - ▶ Bodies: the Exhibition
  - ▶ Centers for Disease Control



# New Recruiting

- ▶ Focused on recruiting in College Success for Math & Sciences Course sections
  - ▶ 1<sup>st</sup> time Freshmen
- ▶ Approximately 215 students registered in all sections of CSMS
  - ▶ 21 applied to participate



# Fall 2016

- ▶ 12 students participated “regularly”
- ▶ Monthly meetings
  - ▶ Socialization with mentors & each other
  - ▶ Help with mindset and college success
- ▶ Down to about 6 students at end of Fall semester



# Spring 2017

- ▶ Recruited heavily again, focusing on science classes (chemistry and biology)
- ▶ Not just first year students
  
- ▶ 14 additional students applied (11 participated)
- ▶ Brought in more speakers
- ▶ Took field trips (UTC, Tennessee American Water)
- ▶ Continued to work with mentors



# Atlanta Field trip









# Outcomes

	Fall 2016	Spring 2017
Students in program	12	17
Fall-to-spring progression	6 (50%)	-
Student GPA $\geq 3.0$	9 (75%)	11 (65%)
Spring-to-fall 2017 progression	-	13 out of 15 (87%)*
* two students transferred to a 4-year university for fall 2017		



# The Next Year - Math & Science Spectacular

(2017-2018)

- ▶ Much less formal, not restricted to any major, open to any student
- ▶ Informal Friday meetings during Math & Science Café
- ▶ Outside speakers
- ▶ Spring National Science Teachers Association meeting in Atlanta, GA (3 students)
  - ▶ Fundraised during Science Olympiad in February



# This Year – Science Spectacular 2018-2019

- ▶ College Club
- ▶ Faculty Emeritus sponsoring
- ▶ 12 students at first organizational meeting