



UNIVERSITY OF  
CENTRAL  
ARKANSAS™

# 2019 Summer STEM Academy @UCA June 24-28

The 2019 Summer STEM Academy @ UCA is a one-week research immersion experience for **students entering grades 9 - 12**. Three complementary activities (1) data analysis and visualization; (2) empirical modeling and analysis; and (3) biology of the nervous system are developed to guide students to design, implement, and analyze data from their own experiments on human reaction times. The program is organized by the Department of Mathematics and the STEM Institute at UCA.



**Fee: \$200 per student**

**Registration Deadline June 1st**

For more information contact:  
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**To Apply:** <http://uca.edu/go/Registrationform2019>

## PROGRAM

### Data Analysis & Visualization:

Develop computer programming skills and tools to analyze and visualize data with Dr. Mark Doderer, Computer Science faculty.

### Empirical Modeling Analysis:

Be introduced to statistical modeling and utilize those tools to develop and analyze your own experiments with Dr. Todd Abel, Mathematics faculty.

### Biology of the Nervous System:

Develop the knowledge and skills needed for scientific exploration of the senses, and implement your own investigation into the factors that may affect human reaction times with Dr. Krista Peppers, Biology faculty.

## DAILY ACTIVITIES

- 9:15 - 10:45** Data Analysis & Visualization
- 11:00 - 12:30** Empirical Modeling & Analysis
- 12:30 - 1:15** Lunch
- 1:30 - 3:00** Biology of the Nervous System
- Presentations Friday, June 28 3:00-4:00**