

# Summer Science Academy June- July 2017

BIOSar ★ CHEMStar ★ MATHStar



**Summer Science Academy STARS Program** includes a series of three model programs geared towards early exposure and enrichment in math and science. Aimed at middle school and high school students who have expressed interest in science related careers, the three-week curriculum is designed to

enhance knowledge of the subject matter in an engaging and thought provoking manner prior to the student taking the course in high school. The STARS programs are: **MATHStar**, **BIOSar** and **CHEMStar**.



#### Eligibility for 2017:

MATHStar	Students taking Algebra in Fall 2017
BIOSar	Students taking Biology in Fall 2017
CHEMStar	Students taking Chemistry in Fall 2017

#### Application Requirements:

*To be considered all items must be received by the deadline:*  
Online Summer Program Application  
Copy of recent report card  
Application Deadline: April 21, 2017

#### Accepted Students Requirements: **(Once you have receive an acceptance letter from Summer Programs)**

- Submit the \$100 **non-refundable** program deposit by May 5, 2017
- Submit signed acceptance packet, health consent, and final payment by deadline.

#### Program Cost and Scholarships:

- BIOSar and CHEMStar: \$300 per student
- MATHStar: \$400 per student
- Scholarships are available based on merit and financial need and by request until March 31. (Limited funds available)

**Program Schedule:** Monday through Friday. In addition, *students will have one to two hours of homework each day.*

- MATHStar            June 5- 23, 2017    9:00am-4:30pm    (Lunch provided)
- BIOStar             June 6- 23, 2017    1:00pm-5:00pm
- CHEMStar           July 2- 21, 2017    1:00pm-5:00pm

### ***Sample Curriculum Areas***

***Materials are presented in fun and interactive ways. Students can expect to spend time in the laboratories or attending presentations and workshops in addition to participating in quiz bowls and competitions.***

**BIOStar:** is a hands-on approach to high school biology where student will cover the following topics and more: Statistics, Graphs, Organic Molecules of Life, The Cell, Energy of Life, Energy Procurement: Photosynthesis and Cellular Respiration, Biological Terminology, Medical Terminology.

**CHEMStar:** is a problem-solving and inquiry based approach to high school chemistry where student will cover the following topics and more: Scientific Notation, Matter and Its Properties, Atoms, Formulas, and Equations, Ions and Equations, Electronic Structure and the Periodic Table, Graphing, Chemical Reactions and Acids and Bases (pH scale).

**MATHStar:** is unique and action based approach to high school math where student will cover the following topics and more: Variables and Algebraic Expressions, Introduction to Equations, Advanced Work with Equations, Word Problems (Part I and II), Introduction to Inequalities, Intervals and Absolute Value, Polynomials, Graphing (Part I and II).

*The curriculum is subject to change prior to the start of the program.*

**Materials:** All summer program participants will be provided with a T-shirt and all necessary academic materials. Students may bring their own calculators.