

Institute for STEM Education



STONY BROOK UNIVERSITY

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If you enjoy math and would like to learn how to use it in the “real world”, come to the
Della Pietra High School Applied Mathematics Program at Stony Brook!

The Program

The program is designed for high school students who have an interest in developing mathematical skills that will have practical applications in the real world. Possible topics include:

- Game Theory and Decision Making
- Knots
- Optimization
- Statistics
- An introduction to the mathematics of finance
- Operations Research
- Cryptography
- Computational Neuroscience
- Economic forecasting

Students will do hands-on study, often using EXCEL and sometimes MAPLE. Students will attend lectures about topics in applied mathematics from experts in the field. They will also work individually or in groups on problems that will further their understanding of the topics.

You will be exposed to the kind of mathematical applications that you won't see in school. You will meet students from other schools who are also fascinated by mathematics in the real world. You will get to know professors on a one-on-one basis. And, most of all, you will have fun!

The Details

Eligibility: The program is open to students who will be Freshmen or above in the Fall of 2017.

Cost: \$400 for Fall semester, \$450 for the Spring semester, or \$800 for the year.

Dates: All classes are on Saturdays from 10:30–1:30

Fall semester: September 29, October 13, 20, 27, November 3, 10, 17.

Spring Semester: February 9, 16, March 2, 9, 30, April 6, 13, 20

Each class is independent so a student can miss a class without missing out.

Location: All classes will be on the Stony Brook campus.

For additional information or questions, please call (631-632-9750) or e-mail (istem@stonybrook.edu).