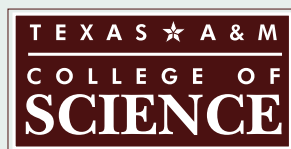


**OUR COMMITMENT  
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## Science Outreach

*PreK-12 Education Support*

For decades, the Texas A&M University College of Science has been introducing K-12 students to the joys of science and mathematics through hands-on events and competitions. Whether you're a team player or individual who thrives on being the best, we've got your event! The only prerequisite is curiosity.

### EDUCATIONAL OUTREACH AND WOMEN'S PROGRAMS OFFICE

More than 1,750 Texas middle and high school students annually participate in the following science and mathematics outreach events sponsored by this College-level office. To learn more, visit <http://outreach.science.tamu.edu>.

#### EXPANDING YOUR HORIZONS

This workshop-structured conference for sixth-grade girls is designed to help young women open new doors of opportunity by encouraging them to continue taking mathematics and science classes and introducing them to female role models in related careers.

#### REGIONAL SCIENCE BOWL

This team-based mathematics and science competition for high school students — a regional qualifier for the National Science Bowl® — is designed to encourage students and teachers to achieve educational excellence in the sciences. The fast-paced, question-and-answer format focuses on astronomy, biology, physics, chemistry, mathematics, current scientific events, and computer, earth, and general sciences.

#### REGIONAL JUNIOR SCIENCE BOWL

This competition is identical to the above event in both purpose and format but geared toward junior high and middle school students (grades 6-8) and is a regional qualifier for the National Junior Science Bowl®.

### TEXAS JUNIOR ACADEMY OF SCIENCE

In this annual meeting and science competition, high school students present original research in several categories within two major divisions: natural and physical science/engineering. The top three finishers in each receive travel awards and an invitation to the American Association for the Advancement of Science (AAAS) national conference.



### TEXAS JUNIOR SCIENCE AND HUMANITIES SYMPOSIUM

In this program high school students may be nominated by their teacher either to present their original research results or to attend as an observer. Students compete for scholarships, monetary awards, and other prizes. Winners advance to the national competition.

### TEXAS SCIENCE OLYMPIAD

In this rigorous academic competition, Texas middle and high school students put their science and engineering knowledge to the test for the honor of representing their state at the National Science Olympiad competition. Fifteen-member teams, each winners of their respective regional competition, compete in a series of events from a variety of science and engineering disciplines.

## OTHER EVENTS AND PROGRAMS

Beyond the College, our departments offer many educational outreach activities to stimulate interest and careers in scientific professions and pursuits.

### CHEMISTRY ROAD SHOW

This program annually helps introduce more than 2,000 people to the wonders of chemistry, physics, and general science with the help of demonstrations involving fire, explosions, weird polymers, and super cold materials.

### CHEMISTRY OPEN HOUSE AND SCIENCE EXPLORATION GALLERY

This award-winning event is held each fall to kick off National Chemistry Week. It features more than 20 different science activities, as well as goodie bags, door prizes, lab tours, and a poster contest for K-12 students.

### FUTURE SCIENTISTS-STUDENT OUTREACH INITIATIVE

This nationally awarded United States Department of Agriculture K-12 model introduces agricultural research into local schools (grades 4-10) and communities with hands-on, inquiry-based activities designed to inspire future scientists. <http://futurescientists.tamu.edu/>

### HIGH SCHOOL MATH CONTEST

In this annual event students solve interesting mathematical problems while vying for a variety of team and individual awards. The top two students receive \$1,000 scholarships to study mathematics at Texas A&M. <http://www.math.tamu.edu/teaching/undergrad/highschoolcontest/>

## LOW-TEMPERATURE PHYSICS DEMONSTRATIONS

Coordinated by the Society of Physics Students (SPS), these on-request demonstrations are designed to stimulate interest in physics, general science and potential future careers.



### MATHEMATICS SUMMER CAMP

In this two-week summer camp, advanced high school students work with Texas A&M faculty to learn basic ideas of matrices, linear algebra, linear transformations, and their relations to various ideas from geometry.

### PHYSICS FESTIVAL

This annual spring exhibition showcases hands-on science through fun experiments and displays that represent basic concepts and principles of science as well as actual work by Texas A&M physicists. <http://physicsfestival.tamu.edu>

### SATURDAY MORNING PHYSICS

This National Science Foundation-funded event takes high school students

and their teachers into the fascinating subatomic world of modern physics. The seven-Saturday-morning series features world-class experts, seminars, discussions, quizzes, experiments and facility tours. <http://cyclotron.tamu.edu/smp/>

### SUMMER EDUCATIONAL ENRICHMENT (SEE) IN MATHEMATICS

This two-week day program for students entering grades 6-8 fosters excitement and positive attitudes toward mathematics and science. Sessions conducted by Texas A&M professors and students help participants master a variety of mathematics-related concepts. <http://www.math.tamu.edu/outreach/SEE-Math/>

### TEXAS MATHEMATICS TALENT SEARCH

This event invites K-12 students who are Texas residents to submit solutions to a given problem set through their teachers. Students who submit the best solutions are invited to a special event featuring a brief problem contest to determine final winners. First prize is a \$1,000 scholarship to study mathematics at Texas A&M. <http://distance-ed.math.tamu.edu/talentsearch/index.html>

### TELL ME MORE!

To learn more about educational outreach activities and related opportunities in the College of Science, contact:

**EDUCATIONAL OUTREACH & WOMEN'S PROGRAMS OFFICE**  
(979) 845-7363

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## ABOUT THE COLLEGE

The College of Science at Texas A&M University takes great pride in providing the highest quality science education, scholarly research, and technical expertise to the people and industries of Texas and the nation. Through five departments and many interdisciplinary centers and institutes, we advance discovery and solve real-world problems while producing the next generation of scientific leaders and technologies and playing a key role in helping Texas A&M succeed in its mission to become one of the nation's top 10 public institutions by the year 2020.

## QUICK FACTS

- Five departments (Biology, Chemistry, Mathematics, Physics, Statistics)
- 29 degree programs—12 bachelor's, 8 master's, 9 doctorates
- 2,323 undergraduate majors
- 264 tenured/tenure-track faculty (13% of total)
- \$38.5 million/year in research
- 50% of A&M distinguished professors
- U.S. leader in minority & female Ph.D.s
- Teach 20% of total A&M semester credit hours

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