

MATH AND SCIENCE ACADEMY SPOTLIGHT



Shreyas Balaji won a gold medal at the 2017 International Physics Olympiad. **Andrew Liu** was a semifinalist for the Physics Olympiad team.

The academy student team of **Anish Patel, Abin Antony, Shreyas Balaji, Andrew Liu, and Shree Mohan** placed 9th at the National Science Bowl competition.

Andrew Liu, Shree Mohan, Allen Zheng, Ethan Zahid, and Stanley Wei were all ARML Qualifiers this year.

Sherin Sabu placed 3rd at States for SkillsUSA in Medical Math.

Shreya Thipireddy and Brittany Nguyen competed at MIT's Math Prize for Girls competition.

The **Dulles Robotics Team** placed 3rd at the BEST Regional championship.

Lauren Yang and Spoorthi Cherivirala were Gold Seal Winners at the Visual Arts Scholastic Event.

Louise Zeng placed 9th at DECA Internationals in Apparel and Accessories Marketing.

The **Dulles Academic Decathlon Team** won 1st at State in the Large School division. **Madison Gabino** and **Ethan Tu** placed 1st and 2nd, respectively, in the Scholastic division.

Academy students dominated the **Tennis** tournaments this year, place 1st, 2nd, and/or 3rd in all tournaments attended.

Louise Zeng and Pilar Ibarra placed 3rd at Future Problem Solvers International. **Mekha Thomas, Spoorthi Cherivirala, and Katherine Cheng** qualified for State level of Future Problem Solvers.

In the Chemistry Olympiad competition, **Andrew Liu** and **Shreyas Balaji** were named National Semifinalists.

In the Biology Olympiad competition, **Anish Patel, Shree Mohan, and Shreyas Balaji**, were named National Semifinalists.

Lauren Yang won the National Gold Medal for Scholastic Art and Writing.

Andrew Liu, Shree Mohan, Allen Zheng, and Ethan Zahid were all USAJMO Qualifiers. **Shree** was also a Platinum Level Qualifier.

The **Dulles UIL Science Team** won State and the **Number Sense Team** placed 2nd.

Two of the Dulles Debate Teams **Ryan Chu** and **Hanzheng Li & Yilin Li** and **Sophia Chang** qualified for the State level competition.

Catherine Li, Arianna Lim, and Diane Cao were a part of the Award Winning Dulles Dolls Dance Team.

Allen Zheng qualified at the Junior National level in swimming.

Ryan Chu qualified to the National Summit for Junior Achievement.



IMAGINE

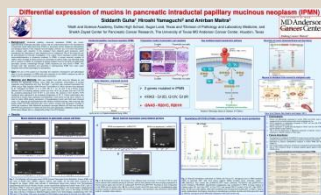
Imagine their Futures!



Our students are awarded a variety of scholarships, grants, and awards, totaling in the amount of \$2.9M. Below are a few that our students have been awarded:

- **Vivan Chou**, Women in Engineering Scholarship
- **Rushil Dandamudi**, HLSR Scholarship
- **Madison Gabino**, WCMC Legacy Scholarship
- **Joshua Griffith and Llaran Turner**, Fort Bend's Youth in Philanthropy Scholarship
- **Matias Jonsson**, Men of Change Scholarship
- **Sanika Phanse**, Comcast Leaders and Achievers Scholarship
- **Samuel Ramirez**, Burger King Scholar
- **Faris Zaibaq**, The Honorable Walter S. McMeans Scholarship

STUDENTS IN ACTION



Students complete a graduation project on a math or science field that they are interested in. Students present their posters and projects at the end of the year. Internships, volunteer experiences, SRD projects, and summer camps are represented.



Academy students participate in social events each semester, the annual Halloween Bash and the annual end-of-year banquet.



Guest speakers attend our monthly meetings to inspire our students to think about math and science in real-world applications.



Community service is an integral part of giving back to our community. Students volunteer as guest judges for elementary science fairs.



Competitions are crucial to our students' enrichment in the math and science fields. Academy students compete in field ranging from UIL academics to science Olympiad.

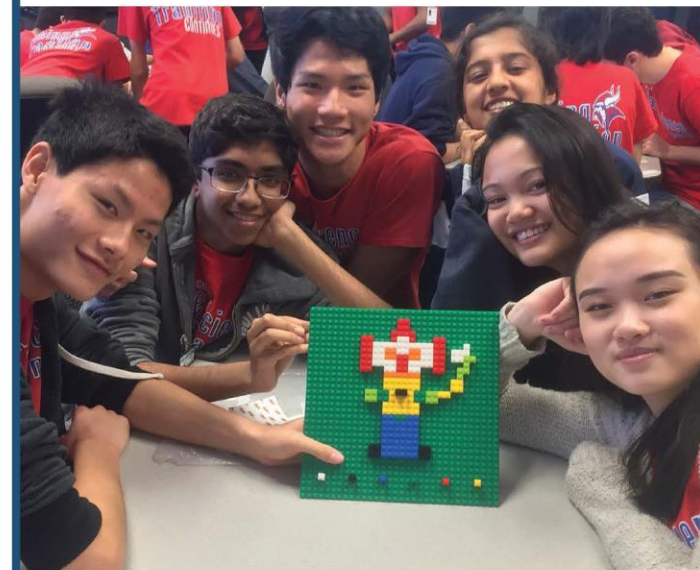
FORT BEND INDEPENDENT SCHOOL DISTRICT

FBISD Math and Science

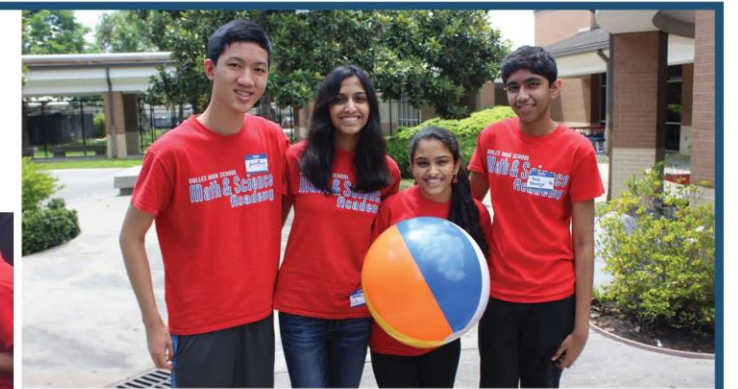


2017 Academy Highlights

INSPIRE



IMAGINE



EQUIP





INSPIRE

Inspired by Our Mission

Founded in 2010, the Math and Science Academy is designed for academically motivated students, and provides those students with a unique learning experience that allows for students to better understand the role of mathematics and science in an increasingly global and technological society.

Mission: The Math and Science Academy exists to provide students opportunities to advance through a specialized series of courses to prepare them for careers in math and science fields.

Vision: The Math and Science Academy emphasizes the significance of math and science in a modern society propelled by daily technology innovation. Through the power of math and science, solution to the world's innumerable problems can be devised.



ENROLLMENT & STUDENT INFO:

- 323 students currently enrolled in the Math and Science Academy
- 62 seniors, 82 juniors, 85 sophomores, and 94 freshmen.
- 670 students applied for admission for the 2016-2017 school year
- 100 students have committed to becoming the incoming freshman class for the 2016-2017 school year.
- 25.8% of students are currently zoned to Dulles

ENRICHMENT ACTIVITIES

Students in the Math and Science Academy are required to participate in at least 4 enrichment activities each year. The purpose of the enrichment activities requirement is to have students experience the math and science world outside the confines of the classroom walls. Some examples of enrichment activities that students participated in, in the 2015-2016 school year are:

- Day of Discovery at **University of Houston's College of Natural Sciences**
- Science Night at the **Burke Baker Planetarium**
- **Rice University** Mathematics Colloquium
- **Science Engineering Fair** of Houston
- **Houston Museum of Natural Science** Lectures
- Houston **Mini Maker Faire**
- Events with **Houston Astronomical Society**
- Senior Trip to **Moody Gardens's Rainforest Pyramid**
- Guest Speaker: **Kathy Tiernan** from UTMB
- STEM Business Proposal Competition
- **iFly Houston** Field Trip
- **Orthotics and Prosthetics Lab** at Baylor College of Medicine

CAMPUS & COMMUNITY INVOLVEMENT

Students in the Math and Science Academy are encouraged to pursue all of their interests, including those that are closely related to the fields of science, technology, engineering, and mathematics. Students are involved in and hold leadership roles within many of the clubs and organizations at Dulles High School. Students in the Math and Science Academy are required to complete 25 hours of community service each year. Some examples of campus and community involvement are:

Clubs:

- Mu Alpha Theta
- National Science Bowl Club
- Science National Honor Society
- Science Olympiad
- SciNOW Club
- UIL Math and Science Team

Service:

- Robotics Camp at **DMS**
- Gritty Gator Challenge at **SCE**
- GTA Mathletes at **QVMS**
- Shark-a-thon at **JSE**
- Spring Fling at **AE**
- **FBISD** Community Events

2016 CAMPUS ACCOUNTABILITY

Dulles High School received a 2016 campus accountability rating of **Met Standard** based on overall student achievement, progress, performance of identified student groups, and post-secondary readiness. Under the state's accountability system based on the STAAR test, campuses and districts receive either Met Standard or Improvement Required ratings. Dulles High School also received **four** distinctions for high performance in **ELA/Reading, Mathematics, Science, and Social Studies** along with **two** other distinctions in **Student Progress** and **Postsecondary Readiness**.

KEEP IN TOUCH & UP-TO-DATE!

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Jennifer Nichols
Dulles High School
Principal

Georgette Bubar
Advanced Academics
Director



Stay up-to-date by checking our website and Twitter feed!

Website: www.fortbendisd.com/mathandscience

Twitter: @DHSMathScience



FORT BEND ISD ACADEMIES

Fort Bend ISD High School Academies exist to provide specialized learning communities with concentrated and robust course pathways comprised of career and academic classes.

The Five Dimensions of Academies

1. Relevance
2. Rigor
3. Connections
4. Research
5. Community

EQUIP

Equipped for Success

Our students are college ready!

Our students go on to study a variety of fields in their post-secondary education. A sampling of their majors are:

- Actuarial Science
- Biochemistry
- Biophysics
- Biology
- Chemistry
- Computer Science
- Earth Science
- Engineering
- Environmental Science
- Geology
- Geophysics
- Kinesiology
- Mathematics
- Physics
- Pre-Med Program

POST SECONDARY DESTINATIONS

Our students attend a variety of post-secondary institutions, below are a few that our students are currently attending or have attended:

- California Institute of Technology
- Colorado School of Mines
- Cornell University
- Dartmouth College
- Harvard University
- Massachusetts Institute of Technology
- Rice University
- Stanford University
- Texas A&M University
- University of Houston
- University of Texas – Austin
- University of Texas – Dallas
- Vanderbilt University
- Washington University – St. Louis
- Yale University

ACADEMY ADVANTAGES & OPPORTUNITIES

Being in an Academy can provide many advantages and opportunities for students. Some advantages in the Engineering Academy are:

- Access to top-ranked competition academic teams
- Internship, mentorship, and partnership opportunities
- Field experience and exposure to the math and science workforce
- Field trips and guest speakers

GRADUATION RATE

Class of 2015	
4-year graduation rate.....	100%
Campus average.....	97.4%
District average.....	94.3%
State average.....	89.0%

ACADEMY STUDENT LEADERSHIP OPPORTUNITIES

Leadership Positions:

- President
- Director of Activities
- Director of Communications
- Secretary
- Communications Officer
- Upperclassman Events Coordinator
- Underclassman Events Coordinator
- Historian
- Tutor Coordinator

Additional Information:

Our Academy student leadership group participates in a District-wide Academy student leadership cadre each term. These cadres allow for student leaders from each Academy to share best practices. In addition, the parent Booster Club leaders are invited and included at times to bolster relationships.

Students not directly involved in the leadership/ officer group still have leadership opportunities through committee work and our **mentor program for incoming 9th graders**.

ACADEMY COURSES & ENDORSEMENTS

(Classes of 2019 & Beyond)



Academy programs of study are aligned with House Bill 5, laying the groundwork for graduation and career planning. The outlined course of study ensures that students complete a rigorous set of courses within the focal point of the Academy.

Academy students are required to complete 11 math and science courses in a 5-6 combination. Courses that we currently offer:

Math: Geometry PreAP, Algebra II PreAP, PreCalculus PreAP, AP Calculus AB, AP Calculus BC, AP Statistics, Multivariable Calculus

Biology: Biology PreAP, AP Biology

Chemistry: Chemistry PreAP, AP Chemistry, Organic Chemistry

Physics: AP Physics I, AP Physics II, AP Physics C, Modern Physics

Other Science Courses: AP Environmental Science, Scientific Research and Design

Computer Science Courses (one credit is required): Computer Science PreAP, AP Computer Science, Computer Science III

**Course offerings are subject to change in the event that the Texas Education Agency makes changes to approved courses and/or due to low enrollment.*