The Academy of science and technology

At The Woodlands College Park High School & Conroe ISD

TWENTY-NINE CLASSES OF EXCELLENCE

67 dedicated students make up the 2019 Academy senior class. Each will complete a rigorous course of study in mathematics, the sciences, and technology.

1464 is the mean SAT score (Math and EBRW) for members of the Academy Class of 2019.

495 Advanced Placement Tests were taken by the end of the junior year. One hundred percent of the students have taken at least one test. One hundred percent of students have taken three or more tests before

their senior year.

67 students are identified as AP Scholars.
Of those, six are AP Scholars with Honor, 35 are AP Scholars with Distinction and 16 are AP National Scholars.

20 National Merit Scholar Semifinalists are members of the 2019 Academy senior class. Fifteen were recognised for Commended Performance.

67 students will graduate from the Academy in 2018, uniquely prepared to excel in college, in their careers and in life.

Academy Mission

The Mission of the Academy of Science and Technology is to prepare students having a strong interest in mathematics, the sciences, and technology for success in college and life. We will provide a challenging and innovative program designed to develop student responsibility, motivation, and commitment to learning within an ethical learning community emphasizing trust and cooperation.

The Academy is a highly focused academic program for students with a strong interest in mathematics, the sciences and technology. Its challenging curriculum and requirements extend learning beyond the classroom.

Highly Selective Admissions

Students are selected on a competitive basis from the Conroe Independent School District. Standardized tests, grades, essays, teacher evaluations, and interviews are all used to assess the applicants. Students are selected who will bring something special to the program and who will benefit most from it.

Rigorous Graduation Requirements

Academy graduation requirements exceed Texas requirements in the Math, Science, and Technology core curriculums. Additionally, exploration credits, internships, independent projects, and competitions are also required.

Extensive AP and Specialty Courses

The Academy teaches pre-AP and AP courses in mathematics, science, and computer science, as well as unique courses such as Scientific Research and Design; Electronics and Robotics; Organic Chemistry, and Special Topics.



ACADEMICS

Internships

Required internships expose students to high-tech working environments. Participating companies include:

AEI Engineering

Baker Hughes

Baylor College of Medicine

BBG Geological Consulting

Bio Fuels Power Corp.

BioTX Automation

Cape Software

Carnegie Mellon

Community Assoc. of The Woodlands

Conroe Medical Center

Conroe Vet Clinic

Davidson Instruments

EMC 2(squared)

ETS Zone Inc.

FM 1488 Animal Med. Ctr.

Fondren Orthopedics

Forest Ped.& Wood Derm.

Fusion Technologies

Hometown Pediatrics

Houston Museum of Natural Science

Hughes Christensen

Huntsman

Kellogg, Brown and Root

Kelsey Seybold

Linn Energy

Memorial Hermann Hospital

Methodist Hospital

MI SWACO

МІТ

Mont. County Hospital Dist.

NASA HS Aerospace Scholars

National Leadership Forum

NeoBox Inc.

NOV (National Oil Varco)

NSLC Washington, DC

NYLF Houston

PBK Architects

Prolinks Development

Rigaku Amer. Corp.

Robo Venture Camp

Rogers Stein Chiropractic

Sequoia Consulting Group

St. Luke's Hospital

Sterling Ridge Pediatrics

Sygma Genosis

TAG Conroe Regional Medical Center

Texas Children's Pediatrics Associates

The Hand Center

Tri-County MHMR

True Compassion Animal Hospital

University of Texas Medical Center

Woodlands Dermatology

Woodlands Eye Assoc.

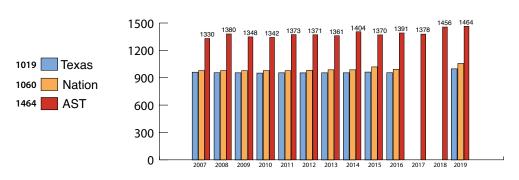
Woodlands Sports Medicine

WOW Science Camp

Academy Class of 2018 Academic Performance Measures

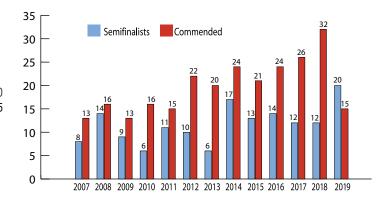
Academy students consistently outperform their peers in national standardized tests. This year's class consists of 73 students (44 males, 29 females).

MEDIAN SAT SCORES (V+M)



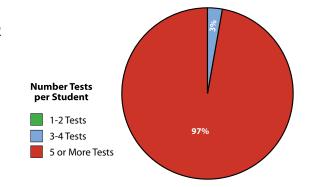
NATIONAL MERIT SCHOLARS

Semifinalists 20 Commended Scholars 15



AP TESTS TAKEN THROUGH JUNIOR YEAR

AP National Scholars 16
AP Scholars with Distinction 35
AP Scholars with Honor 6
AP Scholars 10



EXPLORATION CREDITS

All students are required to earn at least fourteen exploration credits before graduation. These credits are obtained by participating in field trips (individually or as a group) and preparing a written report. This report summarizes the activity, what the student learned, reflections on the event and additional research.

ACHIEVEMENTS AND AWARDS

Academy students demonstrate their commitment to academic excellence by participating in a wide array of science fairs, competitions, symposia, and conferences that range from local to international arenas. Their numerous awards reflect not only their solid technical understanding but also their ability to apply their knowledge and creativity to solve challenging problems.

SCIENCE FAIR

Education for Tomorrow Alliance Sci://Tech

• Grand Awards every year since 1992

Science Engineering Fair of Houston

- Grand Awards every year since 1992 (Alternate, 1998)
- Numerous Special Awards

Texas State Science and Engineering Fair

- Places and awards every year since 1992
- Grand Awards 2003, 2005, 2010, 2015, 2016, 2018

International Science and Engineering Fair

- Finalists since 1992
- First Place Grand Awards 1996, 2000, 2001

Regencron Science Talent Search

- Entries annually since 1992
- Semifinalists 1993, 2004-2008
- Finalists 1995, 2003, 2015

Siemens Competition in Math, Science and Technology

- Entries annually since 1999
- Regional finalists 1999, 2002, 2004-2006, 2009

SYMPOSIA and CONFERENCES

Texas Junior Science and Humanities Symposium

- Speakers since 1992
- First Place awards 1996, 2004, 2010, 2014

National Junior Science and Humanities Symposium

Speakers 1996, 2004, 2005, 2009-2016

NCSSS Student Conference

• Participation since 1992

NCSSS Student Research Symposium

• Presentations since 1994

ENGINEERING/DI/ ENVIROTHON

FIRST Robotics

 2014 World Semi-Finalist, Winner of Archimedes Division and Dallas Regional Chairman's Award

• 2013 WORLD CHAMPIONS

- · Ninth Regional Championships since 2008
- Winner of multiple Industrial Design and Innovation in Control Awards
- Winner of the Delphi Excellence in Engineering, Engineering Inspiration, Motorola Quality and Woodie Flowers Awards
- · Winner of the Chairman's Award 2016, 2017

Texas BEST Robotics

- · Qualified projects since 1997
- Five Star BEST Robotics Winner 2009
- Advanced to State 2007, 2009, 2010, 2012-2014

Destination ImagiNation

- · District and Regional First Places 1992-2018
- State 1st-4th Places 1992-2018
- Globals 2001, 2003-2018, Global winners 2008, 2015, 2016
- Numerous DI special awards and top 3 Global finishes

Envirothon

- State, First Place 2003, 2004, 2007, 2009-2015, 2017
- Regionals, First Place 2014, 2015, 2017, 2018
- Nationals 2010-2015, 2017, 2018

MATHEMATICS/ COMPUTING

Texas State Math League

- Participation since 1992
- Regional Champions 1998, 2000-2002, 2004, 2011-2013

American High School Math Examination

- Participation since 1993
- · Multiple Computer Science Championships

Colleges Attended by Academy Graduates

Arizona State

Austin College

Auburn Baylor

Boston University

Brigham Young

Brown

Cal. Institute of Technology (Caltech)

Cal Poly, San Luis Obispo

Carnegie-Mellon

Colorado School of Mines

Columbia University

Creighton

Cornell Dartmouth

DePauw

Drexel

Duke

Emory

Florida State

Georgia Tech Harvard

Johns Hopkins

Harvey Mudd

Louisiana State University (LSU)

McGill University

Mass. Institute of Technology (MIT)

Miami University (Ohio)

New York University (NYU)

Northeastern

Northwestern

Oberlin Oklahoma Baptist

Princeton

Purdue

Rice

Rutgers

Sam Houston State

Southern Methodist University (SMU)

Southwestern

St. Louis University

Stanford

Texas A&M

Texas Christian University (TCU)

Texas Tech

Trinity Tulane

University of Arizona

University of California

University of Denver

University of Houston

University of Nebraska

University of N. Carolina University of Notre Dame

University of Oklahoma

University of Pennsylvania University of Texas

University of Wisconsin

US Air Force Academy

US Coast Guard Academy

US Naval Academy

Vanderbilt

Wake Forest

Washington University

West Point

Worcester Polytechnic

Yale

EXTRACURRICULAR ACTIVITIES

SERVICE & HONOR SOCIETIES

Academy Student Union (ASU) National Honor Society National English Honor Society National Spanish Honor Society

National Chinese Honor Society

HOSA (Health Occupation Students of America)

Key Club

Mu Alpha Theta

Interact

National Charity League

Leo Club

TWCPHS Student Council

Boy Scouts & Girl Scouts of America

FINE ARTS

Band

Orchestra

Choir

Drama/Theatre

Dance/Drill Team

Color Guard

Winter Guard

Yearbook

SPORTS

Football

Basketball

Tennis Baseball

Track

Soccer Golf

Wrestling

Roller Hockey

Cheerleading

Rowing

Swimming

Cross Country

Water Polo

CLUBS

Chess

Art

Film Literary

ACE (Engineers)

Model UN

Science Bowl Debate

Rowing

Academy students participate in a large array of activities and programs as part of a well-rounded and balanced education.



Texas Science Fair Finalists



FIRST Robotics 2018 Winner of Chairman's Award



ASU participants in Dragon Boats





3701 College Park Drive The Woodlands, TX 77384 936.709.3250 (phone) 936.709.3299 (fax)

http://cpast.conroeisd.net

Academy Staff

Dr. Susan Caffery..... Headmaster
Angela Kyle Admin. Secretary
Leonas Grumulaitis Mathematics
Linda Costanzo Science
Barbara Lowenberg-Turks
Computer Science
Lyubov Merritt Mathematics
Sara Fox ... Science
Karen Humes Physics/Robotics
William VanAlstyne Mathematics
Katrina Cantrell Science