

STISD Science Academy

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CEEB # 444682



South Texas ISD
Science Academy
GRADES 9-12 | MERCEDES



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School Ach

- Ranked 10th in Texas for Best Public High Schools *Niche* (2021)
- Ranked 3rd in Texas for “High Schools with the Best Teachers” *Niche* (2019)
- Ranked 21st in Texas for “Best High Schools” *U.S. News and World Reports* (2019)
- Ranked 151st in the nation for “Best High Schools” *U.S. News and World Reports* (2019)
- Selected by the Educational Results Partnership and the Institute for Productivity in Education as a 2019 Texas Honor Roll Star School
- Project Lead The Way (PLTW) Distinguished School (2019-2020)
- Named a “School to Learn From” award sponsored by Teach for America, which highlights the schools that provide excellent education for students (2018).
- Ranked 254 in Newsweek “America’s Top High Schools 2016” (only campus from the Rio Grande Valley)
- Ranked 45th in the Newsweek “Beating the Odds 2016” which includes the top 500 high schools in the nation for low-income students
- Rated as an “Exemplary” campus by the Texas Education Agency in 2007 and has been rated “Exemplary” for 14 out of 15 years. In 2013 Rated “Met Standard” all Distinctions Recognized
- Nationally recognized as a National Blue Ribbon High School by the U.S. Dept. of Education in 2005
- Ranked 21 in the nation (April 2014) 15 in the nation (June 2012) and 12th in the nation (June, 2011) by The Washington Post
- Rated in the best high schools rating by Texas by the Texas Business Education Coalition Honor Roll for the past eight years

School Characteristics

- Established in 1989 as a regional magnet school focusing on Math, Science, and Engineering
- An open enrollment, public tuition-free, magnet high school
- Serves students from 28 school districts in the counties of Cameron, Hidalgo, and Willacy
- Strong academic preparation and hands-on experiences allowing students to explore the fields of math, science, engineering and architecture
- More than 99% of each senior class to date has enrolled in college after graduation
- Accredited through the Texas Education Agency
- Current enrollment of 800

Partnerships

- Partnerships with Yale University, Stanford University, Rice University, Cornell University, The University of Texas-Rio Grande Valley, South Texas College, Texas A&M University at Kingsville, and Johns Hopkins University
- Partnership with Project Lead The Way Inc. to promote an interactive, project based technology curriculum supported by quality pre-engineering and pre-architectural courses

Administration

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|-------------------------------------|----------------------------|
| • Eric Gutierrez, Principal | Amy Dominguez-Counselor |
| • Rigo Olivarez-Assistant Principal | Eugenia Moreno-Counselor |
| • Anerey Yerena-Assistant Principal | Laura Villarreal-Counselor |

Curriculum

The Science Academy offers rigorous, highly academic courses focusing on the various math and science fields such as engineering, architecture, and computer science. Students are offered a comprehensive curriculum and elective courses in math, science, and technology. This curriculum prepares students for college and introduces them to pre-engineering and pre-architecture concepts.

Advanced Placement courses are offered in English, math, science, social studies, art, foreign language, psychology, and computer science. Dual enrollment and/or concurrent enrollment college credit is offered in association with South Texas College, the University of Texas Rio Grande Valley, and through participating universities of the PLTW partnership. UIL competition in various areas is also strongly supported.

2020-2021	1176	1060	1003
2019-2020	1202	1051	1010
2018-2019	1215	1059	1022
2017-2018	1234	1068	1032
2016-2017	1247	1070	1019

ACT

YEAR	SCIENCE ACADEMY	NATIONAL	TEXAS
2019-2020	28.1	20.6	20.2
2018-2019	25.8	20.7	20.5
2017-2018	25.5	20.8	20.6
2016-2017	25.7	21	20.7
2015-2016	26.1	20.8	20.6

2021-2022 Science Academy Course Sequence

English	Math	Science	Social Studies
English I Honors English II Honors English III AP# English III+ UT RHE 306+ UT RHE 309+ Professional Communication English IV AP#■ STC ENGL1301■ STC ENGL1302■ Advanced English Studies■ STC ENGL 2341■ STC ENGL 2321■ =====	Algebra I Honors Geometry Honors Algebra II Honors Pre-Calculus Honors■ STC Math 1414■ STC Math 2412■ ===== Advanced Quantitative Reasoning Logic I and Logic II Calculus I AP#■ STC Math 2413■ Calculus II AP# ■ STC Math 2414 ■ Statistics AP#■ STC MATH 1442■	Integrated Phys & Chem Honors Biology I Honors Chemistry Honors Physics Honors ===== Biotechnology Principles of Biomedical* Science Human Body Systems* Environmental Systems Earth and Space Science+ UT GEO 302E + Biology AP# Chemistry AP# Environmental Science AP# Physics I AP# Physics II AP# Physics C AP#	World History AP# World Geography Honors U.S. History AP# U.S. Government AP# Economics AP# ===== Personal Financial Literacy European History AP# Psychology AP# Sociology
Engineering	Physical Education/Health	Fine Arts	Electives
Introduction to Engineering Design (IED)* Digital Electronics (DE)* Engineering Science (POE)* Engineering Design & Development (EDD)* ===== Computer Integrated Manufacturing (CIM) * Aerospace Engineering (AE) * Civil Engineering & Architecture (CEA) *	Foundation of Personal Fitness Individual or Team Sports Health ===== Aerobic Activities	Art I Honors ===== <i>Traditional Art Pathway</i> Art I Honors Art II Sculpture I Art II Drawing Art AP# Drawing Portfolio <i>Digital Art Pathway</i> Art I Art & Media Communications Art II Design I Digital Art & Media I+ UT AET 304+ Art AP# Dimensional Design Portfolio	Path College Career Research/Technical Writing ===== Advanced Yearbook I Advanced Yearbook II <i>P.A.E.²-Program of Academic Excellence via Externships (3RD year course option)</i> Selected via application process Robotics and Automation
Foreign Language	Computer Science		Endorsements
Spanish I Honors Spanish II Honors ===== Spanish III AP#■ STC SPAN 2313■ Spanish IV AP#	Computer Science Principles AP# ===== Computer Science A AP#		STEM Multidisciplinary Arts and Humanities
Business and Industry: Automotive		Business and Industry: Welding	

Small Engine Technology Small Engine Technology II Automotive Technology I Practicum in Transportation Systems/Ext. Practicum In Transportation	Principles of Manufacturing Welding I Welding II Practicum in Manufacturing
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Advanced Placement Course
the Way Course

■ Dual Enrollment Course (pending acceptance to STC dual enrollment)
+ Dual Enrollment Course (pending acceptance UT dual enrollment)

*Project Lead

=== Courses above the dashed line are mandated by state or campus regulations.

Consistent with South Texas ISD EIC (Local) Policy, Science Academy does not rank students except as required by state law.