

**Welcome to the
South Texas ISD
Science Academy!**





Meet the Administration

- ▶ Mr. Eric Gutierrez, Principal
- ▶ Mr. Rigo Olivarez, Assistant Principal
- ▶ Mrs. Anerey Yerena, Assistant Principal



Meet the Science Academy Faculty & Staff

- ▶ Eugenia Moreno, *Counselor* (A-Gomez)
- ▶ Laura Villarreal, *Counselor* (Gonzalez-O)
- ▶ Amy Dominguez, *Counselor* (P-Z)
- ▶ Nancy Talavera, *Social Worker*
- ▶ Teachers, Staff, & Student Ambassadors

Our Vision

Inspiring students to problem-solve, innovate,
and transform their communities





Our Accolades

Recognized as...

- ▶ #1 High School in the Rio Grande Valley (Niche, 2021)
- ▶ #6 Best Magnet High School in Texas (Niche, 2021)
- ▶ #10 Best Public High School in Texas (Niche, 2021)
- ▶ #24 Best High School for STEM in Texas (PLTW)



A+ Niche Rating

Partnerships

- *UT Austin (On Ramps)*
- *South Texas College*
- *UTRGV*
- Cornell University
- Johns Hopkins University
- Rice University

OPPORTUNITIES FOR ADVANCEMENT:

STUDENT MUST MEET COLLEGE OR UNIVERSITY REQUIREMENTS AND HAVE ALL NECESSARY PREREQUISITES

■ **STC Dual Enrollment classes**

- English IV, English V
- Pre Calculus, Calculus, Calculus II, Statistics
- Spanish 3

■ **UT On Ramps**

- Earth and Space Science
- English 3
- Art II Digital Art and Media
- US History

■ **UTRGV Concurrent Enrollment classes (on your own)**

- After school
- Summer school

- Pay close attention to deadlines and start communicating with your counselor early.

STC Dual Academies

(Students apply their sophomore year)

- Engineering (DEEA)
- Medical Science (DEMSA)
- Criminal Justice (DECJA)
- Business Administration (DEBAA)
- Computer Science (DECSA)
- Teaching (DETA)
- Pharmacy (DEPA)

Application and TSIA2 exam Required

Successful completion of program leads to an Associate Degree.



Graduation Requirements

- ▶ Credit Requirements—28
- ▶ Graduation Plans—Endorsement Selection
- ▶ Courses Offered:
 - ▶ College Prep Courses (GPA Weight 1.0)
 - ▶ Honor Courses (GPA Weight 1.05)
 - ▶ AP Courses (GPA Weight 1.10)
 - ▶ Dual Courses (GPA Weight 1.10)
 - ▶ Project Lead the Way Courses (GPA Weight 1.10)

GRADUATION REQUIREMENTS : FOUNDATIONS WITH DISTINGUISHED ACHIEVEMENT

Student must complete:

- 4 credits in English
- 4 credits in Math (includes Algebra II)
- 4 credits in Science
- 4 credits in Social Studies
- 2 credits in languages other than English (LOTE)
- 1 credit in Fine Arts
- 1 credit in PE
- **At least 1 Endorsement**
- **Electives required by STISD**
- **28 credits-STISD**
- Pass all 5 STAAR EOC exams: English I, English II, Algebra I, Biology, US History
- Complete and submit the Free Application for Federal Student Aid (FAFSA)



75 community service hours



ENDORSEMENTS

- **STEM-Science, Technology, Engineering and Math**-Students who want to earn the STEM endorsement must take Algebra II, Chemistry, and Physics as well as four courses in the STEM area.
- **MULTIDISCIPLINARY**-Students who want to earn a Multidisciplinary Endorsement must complete four credits in each of the four foundation subject areas to include English IV and chemistry and/or physics
- **ARTS AND HUMANITIES**-Students wishing to earn an arts and humanities endorsement must complete five social studies credits; four levels of the same language; four Art credits; **or** four English credits to include: AP English 3, AP English 4, English 5-Independent Studies
- **BUSINESS AND INDUSTRY**- Courses required: 2 in same career cluster and one advanced CTE course. Small Engine Technology, Small Engine Technology II, Automotive Technology I, Practicum in Transportation Systems/Ext. Practicum in Transportation or Principles of Manufacturing, Welding I, Welding II and Practicum in Manufacturing.

Science Academy Course Sequence



Course Sequence 2022-2023

Course	Year 1	Year 2	Year 3	Year 4
CORE Subject Areas				
English	English I Honors or English II Honors	English II Honors or English III AP or English III Dual (UT RHE 306/UT RHE 309) or English III Dual (STC 1301/1302)	English III AP or English III Dual (UT RHE 306/UT RHE 309) or English III Dual (STC 1301/1302)	English IV AP or English IV Dual (STC 2341/2321) or English IV (STC 1301/1302) or Advanced English Studies (See attached course options)
Mathematics	Algebra I Honors or Geometry Honors	Geometry Honors or Algebra II Honors	Algebra II Honors or Pre-Calculus Honors or Pre-Calculus Dual (STC Math 1414/2412) or Statistics HS	Pre-Calculus Honors or Pre-Calculus Dual (STC Math 1414/2412) or Calculus I AP or Calculus I Dual (STC Math 2413) or Calculus II AP or Calculus II Dual (STC Math 2414) or Statistics AP or Statistics Dual (STC Math 1442)
Science	Biology Honors and Chemistry Honors or Chemistry Honors and Science Elective	Chemistry Honors or Physics Honors	Physics Honors or Biology AP or Chemistry AP or Physics I AP or Environmental Science AP or Earth and Space Science Dual or Environmental Systems	<i>Science Electives:</i> Biotechnology or Biology AP or Chemistry AP or Physics I AP or Physics II AP or Physics C AP or Environmental Science AP or Earth and Space Science Dual (UT GEO 302E) or Environmental Systems
Social Studies	World Geography Honors	World History AP	US History AP or US History Dual (UT HIS 315K/315L)	U.S. Government AP/ Economics AP

Science Academy Course Sequence

Required Electives	Lifetime Fitness and Wellness Pursuits	Art I H or Choir 1	<i>Additional Electives:</i> Art II Sculpture I Art II Drawing Digital Art & Media I Dual Dimensional Design Portfolio Dual Advanced Yearbook I Advanced Yearbook II P.A.E. 2 - Program of Academic Excellence via Externships (3rd year course option) * Selected via application process Introductions to Unmanned Aerial Vehicles (UAV) / Robotics I (1 yr course 11th or 12th, must be 16 yrs old) Certification: Part 107 Remote Drone Pilot Robotics and Animation PE Substitution Athletics 1 European History AP Psychology AP or Sociology Spanish III AP/Dual (SPAN 2313) Spanish IV AP Spanish IV Dual (SPAN 2315)/AP	
	Spanish I H or Spanish II H	Spanish II H or Spanish III AP		
Required Electives				
Science, Technology, Engineering, and Mathematics				
Cybersecurity	Fundamentals of Computer Science or Foundations of Cybersecurity	AP Computer Science Principles or	Computer Science A AP	Cybersecurity Capstone
	Certifications:		CompTIA A+ * and/or IT Fundamentals	
Engineering	Introduction to Engineering Design	Digital Electronics	Engineering Science (Principles of Engineering) and	Engineering and Desing & Development and Computer Integrated Manufacturing or Aerospace Engineering or Civil Engineering & Architecture
	Certifications:		Autodesk Certified Professional User (ACU)-Inventor	

Science Academy Course Sequence

Programming and Software Development	Fundamentals of Computer Science or AP Computer Science Principles	Computer Science Principles AP or Computer Science AAP	Computer Science A AP or Computer Science II	Computer Science II or Computer Science III
	Certifications:	Microsoft Technology Associate Intro. To Programming Using Python, HTML, or CSS and/or Microsoft Technology Associate Intro. To Programming Using Java or Java Script		
Transportation, Distribution, and Logistics				
Automotive	Small Engine Technology	Small Engine Technology II	Automotive Technology I	Practicum in Transportation Systems/Ext. Practicum in Transportation
	Certifications:	Automotive Service Excellence (ASE) Entry Level		
Manufacturing				
Welding	Introduction to Welding	Welding I	Welding II	Practicum in Manufacturing or Career Preparation I
	Certifications:	AWS Certified Welder and/or AWS D1.1 Structural Steel and/or AWS D9.1 Sheet Metal		
<p>* Pending partnerships for accreditation Concentrator: A student served by an LEA who has completed two or more courses for at least 2 credits in a single program of study. Completer: A student served by an LEA who has completed 3 or more courses for 4 or more credits including an advanced course (level 3 or level 4) within an approved program of study.</p>				



A/B Block Schedule

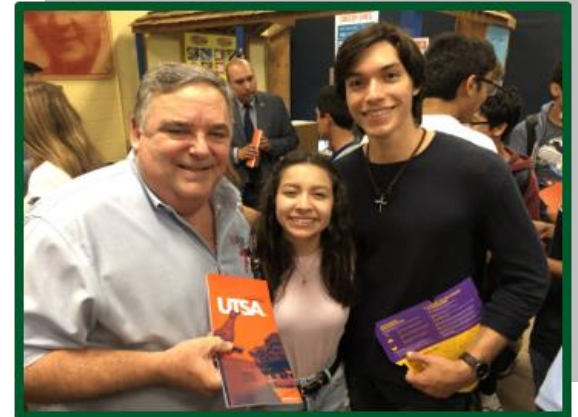
<https://bit.ly/3McVWrF>

Bus Schedule

<https://bit.ly/3voyHUY>

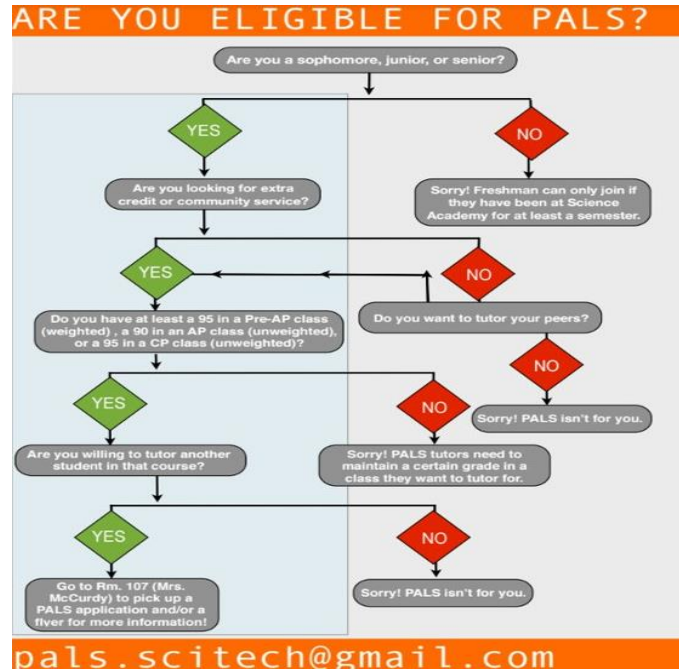
Support System

- ▶ Schoolwide Tutorial
 - 8:00 - 9:00 AM every Monday
 - Mentoring periods every day
 - 4:15 - 5:15 PM Mondays-Thursdays
- ▶ Infinite Campus Parent Portal Access
- ▶ 3-Week Grading Periods for Feedback
- ▶ Daily Teacher Conference Periods





PALS



Student Responsibilities

Student Code of Conduct:

<https://bit.ly/3KXfz6P>

- ▶ Discipline Violations addressed on Page 5
- ▶ A Culture Built on Respect

Student Handbook: <https://bit.ly/3JSu76v>

- ▶ Attendance (pg 28)
- ▶ Tardiness (pg 86)
- ▶ Dress Code (pg 52)
- ▶ Closed Campus

Extracurricular Activities

- Astronomy Club
- Science Olympiad
- Music Club*
- Art Club
- Esports Club
- National Honor Society
- Technology Student Association (TSA)
- Electric Car Club*
- Student Council
- Robotics Club
- Sports
- ... and more!



Science Academy Family



Community



Culture



Creativity



The Science Academy Community



Students form connections and gain access to a community that stays with them even as they continue on to higher education.



The Science Academy Culture



“Science Academy prepared us to get the most out of our opportunities.”

– Maisie Nievera, 2019 Graduate



The Science Academy's Creativity

Engineering

- ▶ Engineering Building
- ▶ Clean Room
- ▶ Engineering Club & Classes
- ▶ EDD Presents



Course Registration Form



**Students who have not filled out a course registration form will complete form.*

**Student who have completed a course registration form are welcomed to go on a tour.*

Course Registration Forms

-9th grade (cafeteria)

-10th and 11th grade (student lounge)



Welcome to the Science Academy Family!

