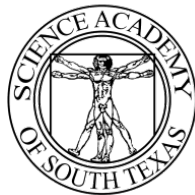


THE SCIENCE ACADEMY OF SOUTH TEXAS



Four-Year Course Sequence 2018- 2019

Four-Year Course Sequence 2018- 2019			
English I Pre-AP	English II Pre-AP	#English III AP	■#English IV AP
Algebra I Pre-AP Geometry Pre-AP	Geometry Pre-AP Algebra II Pre-AP ■Pre-Calculus Pre-AP	Algebra II Pre-AP Advanced Quantitative Reasoning ■Pre-Calculus Pre-AP ■#Calculus I AP	■Pre-Calculus Pre-AP ■#Calculus I AP ■#Statistics AP ■#Calculus II AP
Integrated Physics & Chemistry Pre-AP *Principles of BioMedical Science	Chemistry I Pre-AP Environmental Systems Pre-AP Biotechnology *Human Body Systems	Physics I Pre-AP #Physics 1 AP #Physics 2 AP #Physics C AP #Chemistry AP #Biology AP #Environmental Science AP *Environmental Sustainability	Physics I Pre-AP #Physics 1 AP #Physics 2 AP #Physics C AP #Chemistry AP #Biology AP #Environmental Science AP *Environmental Sustainability
World History Pre-AP	World Geography	#U.S. History AP	#U.S. Government AP & #Economics AP
*#Computer Science Principles AP	Spanish I Pre-AP Spanish II Pre-AP	Spanish II Pre-AP ■#Spanish III AP/D	■# Spanish III AP/D #Spanish IV AP
*Introduction to Engineering Design (IED) <i>STEM Endorsement</i>	*Digital Electronics (DE)	*Principles of Engineering (POE)	*Engineering Design & Development *Computer Integrated Manufacturing (CIM) * Aerospace Engineering (AE) *Civil Engineering & Architecture (CEA) --- #*Computer Science A AP #*Computer Science Principles
*Introduction to Engineering Design <i>Multidisciplinary Endorsement</i>	*Digital Electronics (DE)	Adv. Year Book I & II, AP Spanish IV, AP Psychology, Sociology, Aerobic Activity, Art AP, Art Drawing, Computer Science AP (Computer Science Principles PLTW), Advance Mathematics, Advance Science	
Research/Technical Writing (Semester course) Foundation Personal Fitness (Semester Course)	Art, Level I	Professional Communication (Semester Course)	Physical Education (Semester Course)
		SAT / ACT Prep (Semester Course)	Elective (Semester Course)
		Physical Ed. & Health (Semester Courses)	

Advanced Placement Course

■Dual Enrollment Course

*Project Lead the Way Course

FOUNDATION COURSES: 4 ELA: English I, II, III, & IV; 3 MATH: Algebra, Geometry & Algebra II; 3 SOCIAL STUDIES - World History, US History, Government & Economics; 3 SCIENCE - Biology, IPC & Chemistry; 2 FOREIGN LANGUAGES – Spanish 1 & 2; 1 FINE ARTS – Art 1; 1 PHYSICAL EDUCATION – Foundations of Pers. Fit & Ind. Team Sports 9 ELECTIVES – Introduction to Engineering, Digital Electronics, Speech/Health, PE/SAT, World Geography, Spanish 3, Environmental Systems or Environmental Science AP, Independent Studies

STEM Endorsement - Courses required: Six (6) courses in STEM area. Completion of the foundation requirements, required courses include: Algebra II, Chemistry, and Physics. Additionally, five (5) courses must be completed from the following options: A) Computer Science & Engineering Software, Introduction to Engineering, Digital Electronics, Principles of Engineering, Principles of Biomedical Science, Human Body Systems, Environmental Sustainability, Civil Engineering & Architecture, Aerospace Engineering, Engineering Design & Development and/or any Advanced Mathematics or Science course. B) Five (5) mathematics courses; C) Five (5) science courses. We are in the process of Digital Electronics (DE) functioning as Mathematics and Engineering credit; Principles of Engineering (POE) and Engineering Design and Development (EDD) also functioning as a Science and Engineering credit.

Multidisciplinary Endorsement - Courses required: Six (6) in the Multidisciplinary area. Required courses include: Chemistry, Physics and Algebra II. Additionally, five (5) courses must be completed from the following options: Spanish IV, Advanced Journalism I & II, Art II or AP, Computer Science & Engineering Software, Computer Science II AP (Computer Science Applications PLTW), Psychology AP or Dual, Sociology, Aerobic Activity and/or any Advanced Mathematics or Science course.

Arts & Humanities Endorsement - Courses required: Completion of the foundation requirements. Courses to complete the Arts & Humanities Endorsement: A) World History, World Geography, United States History, Government, Economics, and/or B) Spanish I, Spanish II, Spanish III and Spanish IV.

- English, Math, Science, and Social Studies courses are required each of the four years
- Pre-Calculus I Pre-AP is required prior to or concurrently with Statistics AP
- Physics Pre-AP is required prior to or concurrently with Biology II AP, Chemistry AP or Environmental Science AP
- If the required grade level's Engineering CTE course is full, the student will be placed in his/her second choice
- Science Academy will permit a student to choose, at any time, to earn an endorsement other than the endorsement the student previously indicated with parent consent.

#Advanced Placement preparation is available in: English III, English IV, Calculus I (AB), Calculus II (BC), Statistics, Chemistry, Biology, Physics I, Environmental Science, U.S. History, U.S. Government, World History, Economics, Art II, Computer Science A, Spanish II, Spanish IV, and Psychology.

■Dual Enrollment course at Science Academy are: Biology II, Physics II, Calculus I, Calculus II, Calculus III (option to receive credit at STC only during Spring semester of Cal II SciTech course), College Algebra, English IV, Pre-Calculus, Psychology, Spanish III, and Statistics. These courses earn a student both high school and college credit. Dual Enrollment teachers have a Master's degree in the area of study. Courses transfer to any public university in Texas.

***Transcribed college credit is available through the Rochester Institute of Technology for:** Introduction to Engineering Design, Computer Science Principles, Digital Electronics, Principles of Engineering, Aerospace Engineering, Computer Integrated Manufacturing, and Civil Engineering and Architecture. The credit is based upon the scores from an end of course exam and college and the submission of the RIT application. There is no fee to take university EOC exams, but a filing fee with the university is required for each qualifying course the student requests be transcribed credit(s) through the university system.

● **Elective courses from Home High Schools** will be accepted and credit will be awarded within Science Academy's four-year course sequence.