



2020-2021 Course Sequence

English	Math	Science	Social Studies
English I Honors English II Honors English III AP# 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 Art I Honors ===== Art II Sculpture I Digital Art & Media I Art AP#	Path College Career Research/Technical Writing ===== Advanced Yearbook I Advanced Yearbook II  <i>P.A.E.<sup>2</sup>-Program of Academic Excellence via Externships (3<sup>RD</sup> year course option)</i> <b>Selected via application process</b> kk
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

# Advanced Placement Course

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

\*Project Lead the Way Course

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

**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 – IPC, Biology & 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, Engineering Science (POE), Speech/Health, PE/Path College Career, 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 Principles, 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; Engineering Science (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 Principles AP, Computer Science A 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 and A) World History, World Geography, United States History, Government, Economics, both Psychology & Sociology or AP European History and/or B) Spanish I, Spanish II, Spanish III and Spanish IV. C) English I, English II, English III, English IV and Advanced English Studies.

- English, Math, Science, Social Studies and Engineering courses are required each of the four years
- Pre-Calculus I Honors is required prior to or concurrently with Statistics 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.

**Dual Enrollment course at Science Academy are:** Pre-Calculus, Calculus I, Calculus II, Calculus III, Statistics, English IV, Advanced English Studies, Spanish III, and Earth & Space Science. 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 various PLTW partner universities (PLTW.org):** 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, receiving college/university, and the submission of the specified 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.

