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**STISD.NET**

To: Dr. Marco Antonio Lara, Superintendent  
South Texas ISD Board of Directors

From: Jeff Hembree, Deputy Superintendent

Date: March 10, 2020

RE: 2020-2021 Course Sequence for STISD Campuses

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Attached is the 2020-2021 Course Sequence for the six South Texas ISD campuses. These course sequences have been reviewed and recommended by both the campus and district site-based councils. The use of grade levels at high school has become obsolete. Many students are advancing in their high school course work beginning in the middle school. We removed the grade levels on the high school course sequences two years ago.

The course sequence is the backbone of STISD curricular offerings. It provides the student, parent, teachers, and administrators with clear curriculum expectations that are specific for each campus theme. The high-quality educational results that we are able to achieve are based upon this strong curriculum for all students, high expectations for all students, and encouraging support for all students. Providing clear expectations is the first step in the process. The course sequence is a valuable tool in communicating what is next as a student advances in their learning.

STISD campuses are different from most secondary magnet schools across the country. This is a conscious choice. We believe in open enrollment, where any students can choose to work hard and excel. We believe in challenging courses for all students. We believe that all students, teachers, and administrators will together learn rigorous content in a student-centered instructional setting. The course sequence provides the structure within which to accomplish high quality results for all students.

I recommend that the STISD Board of Directors approve the 2020-2021 Course Sequences for inclusion in the information for students/parents and the campus student handbook.

Thank you.



South Texas ISD

**Preparatory  
Academy**

GRADES 7-8 | EDINBURG

## SOUTH TEXAS PREPARATORY ACADEMY

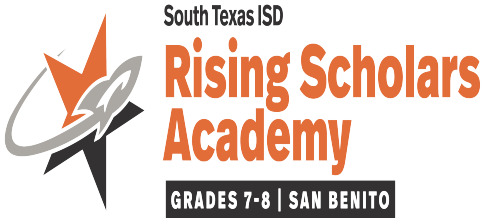
### TWO-YEAR COURSE SEQUENCE 2020-2021

7 <sup>th</sup> Grade	8 <sup>th</sup> Grade
Language Arts 7 Honors ( <i>meets every day</i> ) Reading 7 if required for the student	Language Arts 8 Honors ♦ • English I Honors Reading 8 if required for the student
Math 8 Honors Math 8 ( <i>meets every day</i> )	♦ Algebra I Honors ♦ Algebra I C.P. ( <i>meets every day</i> ) ♦ Geometry Honors
♦ IPC Honors ( <i>meets every day</i> ) ♦ IPC C.P. ( <i>meets every day</i> ) Integrated Physics & Chemistry	♦ Biology Honors ( <i>meets every day</i> ) ♦ Biology C.P. ( <i>meets every day</i> )
Texas History Honors U.S. History Honors	U.S. History Honors ♦ • World Geography Honors
Physical Education	Physical Education
♦ Fundamentals of Computer Science	♦ PLTW Gateway to Technology ♦ Principals of Health Science ♦ Robotics I

**\*Important Notice:** One year of a fine arts course is required for all students in grades 6-8.

Enrichment Courses	Enrichment Courses
♦ Robotics I	♦ Fundamentals of Computer Science
♦ Art I ♦ Theater Arts I ♦ Music Instrumental Ensemble ♦ Music Strings I ♦ Music Choir I	♦ Art I ♦ Theater Arts I ♦ Music Instrumental Ensemble ♦ Music Strings I ♦ Music Choir I
	♦ Spanish I Honors ♦ Chinese I Honors

- ♦ High School Courses (credit will be posted on high school transcript)
- English I Honors & World Geography Honors (Pre-requisite: Credit by Exam)



## RISING SCHOLARS ACADEMY OF SOUTH TEXAS

### TWO-YEAR COURSE SEQUENCE 2020-21

	7 <sup>th</sup> Grade	8 <sup>th</sup> Grade
<b>ELA</b>	<ul style="list-style-type: none"> <li>▪ Language Arts 7 Honors(<i>meets everyday</i>)</li> <li>★ Reading 7</li> </ul>	<ul style="list-style-type: none"> <li>▪ Language Arts 8 Honors</li> <li>❖ English I</li> <li>★ Reading 8</li> </ul>
<b>MATH</b>	<ul style="list-style-type: none"> <li>▪ Math 8 Honors</li> <li>▪ Math 8 (<i>meets everyday</i>)</li> </ul>	<ul style="list-style-type: none"> <li>❖ Algebra I Honors</li> <li>❖ Algebra I (<i>meets everyday</i>)</li> <li>❖ Geometry</li> </ul>
<b>SCIENCE</b>	<ul style="list-style-type: none"> <li>❖ IPC (<i>meets everyday</i>)</li> </ul>	<ul style="list-style-type: none"> <li>❖ Biology (<i>meets everyday</i>)</li> </ul>
<b>SOC. STUDIES</b>	<ul style="list-style-type: none"> <li>▪ Texas History Honors</li> <li>▪ US History</li> </ul>	<ul style="list-style-type: none"> <li>▪ U.S. History Honors</li> <li>❖ World Geography</li> </ul>
<b>P.E./FINE ARTS</b>	<ul style="list-style-type: none"> <li>▪ Physical Education 7</li> </ul>	<ul style="list-style-type: none"> <li>▪ Fine Art: Art or Music</li> </ul>
<b>ELECTIVES</b>	<p><i>7<sup>th</sup> graders take 1 required elective</i></p> <ul style="list-style-type: none"> <li>❖ Fundamentals of Computer Science</li> </ul>	<p><i>8<sup>th</sup> graders choose 2 electives</i></p> <ul style="list-style-type: none"> <li>❖ PLTW Gateway</li> <li>❖ Principles of Health Science Technology</li> <li>❖ Spanish I</li> <li>• Physical Education 8</li> </ul>

- ★ If required for student
- ❖ High school courses

**Course Sequence  
2020-2021**

English	Math	Science	Social Studies
English I PrelB English II PrelB English III PrelB IB English III HL IB English IV SL/HL UTRGV Engl 1301 UTRGV Engl 1302 UTRGV Engl 2321/ 2326/ 2331/ 2341/ 2351 College Transition	Algebra I PrelB Geometry I PrelB Algebra II PrelB Pre-Calculus PrelB Calculus PrelB Statistics PrelB IB Mathematics SL/HL Independent Studies in Math (Dual)	Biology PrelB Chemistry PrelB Physics PrelB Envir. Science PrelB IB Chem SL Y1/Y2 IB Bio SL Y1/Y2 IB Env Sys & Societies SL Y1/Y2	World Geography PrelB World History PrelB US History PrelB IB HOA HL Government PrelB Economics PrelB UTRGV Hist 1301 UTRGV Hist 1302 UTRGV POLS 2305 UTRGV ECON 2301 OR 1301 IB Geography SL/HL Personal Financial Literacy Psychology
Electives			Foreign Language
<b>Marketing</b> Entrepreneurship Social Media Marketing/Advertising Sports and Entertainment Marketing <b>Information Technology</b> Principles of Cybersecurity <b>Arts AV Tech</b> Animation I Video Game Design Principles of Arts, Audio/Video Technology, and Communications Audio/Video Production I Video Game Programming <b>Business Management</b> Business Information Management I Business Information Management II Dollars and Sense <b>Hospitality and Tourism</b> Introduction to Culinary Arts Culinary Arts Food Science PrelB Photojournalism I II Yearbook I, II	<b>STEM</b> Food Science PrelB IB Computer Science SL/HL IB Information Technology in a Global Society SL/HL Game Programming and Design IB Design Technology SL- IB Design Technology HL IB Sports Exercise and Health Science SL/HL <b>Law, Public Safety,            Corrections, and Security</b> Law Enforcement I Law Enforcement II Court Systems and Practices Forensic Psychology Robotics	<b>Additional International            Baccalaureate Courses</b> IB Psychology Standard Level (SL/HL) IB Social and Cultural Anthropology Standard Level (SL/HL) IB World Religions Standard Level (SL/HL) IB Global Politics Standard Level (SL/HL) IB Visual Arts SL/HL IB Film SL/HL IB Philosophy SL/HL Theory of Knowledge	Chinese 1-2 Advanced Language for Career Applications Spanish 1, 2, 3 PrelB IB Spanish (SL/HL) IB Language Ab Initio
Fine Arts		Physical Education	
Art I, II Theatre I, II, III, IV Band I, II, III, IV Choir I, II, III, IV Marachi I, II, III, IV UTRGV Arts 1301		Individual/Team Sports Aerobic Activity	

SL: Standard Level

HL: Higher Level

Y1: Year 1

Y2: Year 2

**SOUTH TEXAS ISD MEDICAL PROFESSIONS  
COURSE SEQUENCE 2020-2021**

English I Honors	English II Honors	English III AP	English IV AP
Algebra I Honors or Geometry Honors	Geometry Honors or Algebra II Honors	Algebra II Honors or Pre-Calculus Honors or Calculus AB	Pre-Calculus Honors or Calculus AB or Calculus BC
Biology Honors	Chemistry Honors	Physics Honors  Biology AP or Chemistry AP or Environmental Science AP	Biology AP Chemistry AP or Environmental Science AP or Physics AP
Human Geography AP	World History AP	U.S. History AP	U.S. Government AP (semester course) Economics AP (semester course)
Spanish I Honors or Spanish II Honors	Spanish II Honors or Spanish Lang. AP	*Psychology AP (semester course) Research/ Technical Writing (semester course)	Spanish Lang. AP or Spanish Lit. AP
Speech (semester course) Foundations of Personal Fitness (semester course)	Art I Honors or Theater Arts	Individual Sports (semester course) SAT/ACT Prep (semester course)	Elective Statistics AP or Additional Science AP or Additional Spanish AP or Computer Science AP or Additional Art AP or Team Sports or World Health Research (1 credit course) or An approved Independent Study Course or Personal Finance (semester course)
Artificial Intelligence Applications			
Health Professional Skills or Human Growth & Development (with HPS credit)	Pathophysiology  Anatomy & Physiology	Health Science Theory/Health Science Clinical Clinical Laboratory Dental Science Ophthalmology Patient Care Pharmacy Trauma Management (2 credit course)	Practicum in Health Science Emergency Medical Science Dental Assisting Medical Assisting Ophthalmology Phlebotomy Pharmacy Technician (2 credit course)

Students must take core classes each year in English, Math, Science, and Social Studies. Advanced Placement classes are available in Art, Calculus, Statistics, Biology, Computer Science, Chemistry, Environmental Science, Physics, English Language, English Literature, Spanish Language, Spanish Literature, Economics, U. S. Government, U.S. History, World History and Psychology. Dual Enrollment in English and US History. \*Psychology AP may be taken for advanced scheduling.

Medical Academy offers the Foundation Diploma with endorsements in: STEMS (science, technology, engineering and math); Public Service; Arts and Humanities and Multidisciplinary Studies.



South Texas ISD

# Health Professions

GRADES 9-12 | MERCEDES

700 Med High Drive, Mercedes, TX 78570 (956) 565-2237

## FOUR YEAR COURSE SEQUENCE 2020-2021

**Available Endorsements: Arts & Humanities, Multidisciplinary Studies, Public Services, STEM**

English I Honors	English II Honors or Humanities	English III CP, AP, DE	English IV CP, AP, DE
Algebra I Honors Geometry Honors	Geometry Honors or Algebra II Honors	Algebra II Honors or Pre-Calculus Honors	Pre-Calculus Honors, Honors/DE Calculus AB AP, AP/DE Calculus BC AP/ or Statistics AP, AP/DE (after Pre-Cal)
Biology I Honors  Integrated Physics and Chemistry Honors  Environmental Systems Honors	Chemistry I Honors  Environmental Systems Honors	Physics Honors  Physics 1 AP/DE  AP Science (after Physics Honors)	Biology AP or Chemistry AP or Physics 2 AP or Environmental Science AP  (electives after AP Science)
World Geography Honors or Human Geography AP	World History Honors, AP	U.S History CP, AP, AP/DE	U.S Government/ Economics AP European History AP (elective)
Foreign Language Bilingual or Monolingual	Foreign Language Bilingual or Monolingual	Foreign Language Monolingual or AP, AP/DE	Foreign Language AP (elective)
Transitions 9 (1 sem.) and Aerobic Activities (1 sem.)	Technology Applications	SAT/ACT Preparation (1 sem.) and Speech (1 sem.) Physical Education (1 sem.) Fine Arts Course	*Electives – 2 or 3 credits to include any of the courses listed below (beyond requirements identified in this course sequence)
Principles of Health Science or Health Informatics	Anatomy & Physiology and Pathophysiology	Health Science Theory/Clinical  -Biomedical Laboratory Skills -Dental Assisting (Part 1) -Diagnostics and Therapeutics -Patient Care Skills -Pharmacology -Veterinary Assisting (Part 1)	Practicum Health Science  -Dental Assisting (Part 2) -Emergency Medical Technician Basic DE -Certified Clinical Medical Assisting -Nursing Assistant -Patient Care Technician -Pharmacy Technician -Veterinary Assisting (Part 2)

\*English, Mathematics, Science and Social Studies classes are required each of the four years. Pre-Calculus is a required math course.

\*Advanced Placement classes are available in Art, English, Mathematics, Science, Social Studies and Spanish.

\*Dual enrollment courses are available in the sophomore, junior and senior years.

\*Technology Applications may include courses such as Computer Science, Digital Design and Media Production, 3-D Modeling and Animation, Web Design, Digital Communications in the 21<sup>st</sup> Century, Independent Study in Technology DE, Independent Study in Evolving/Emerging Technologies.

\*Writing courses may include Practical Writing, Transitions/Technical Writing and Creative Writing, and they may be taken at any grade level.

\*Psychology, Sociology, Aerobic Activities, and Outdoor Education are available during the junior and senior years.

\*Fine Arts courses may include Art I, Art II, Theater I, Theater II or music elective.

\*Foreign Language courses may include Spanish Literature or Sign Language.

\*Humanities may be taken in the freshman or sophomore year.

\*Forensic Science may be taken after completion of an AP Science.

\*An additional one semester Physical Education course must also be taken at any grade level. A certification for Personal Trainer may be earned through enrollment in Exercise Physiology at the junior or senior level (elective).



South Texas ISD

**Science Academy**

GRADES 9-12 | MERCEDES

## 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>
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.

\***Transcripted 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 transcripted 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.