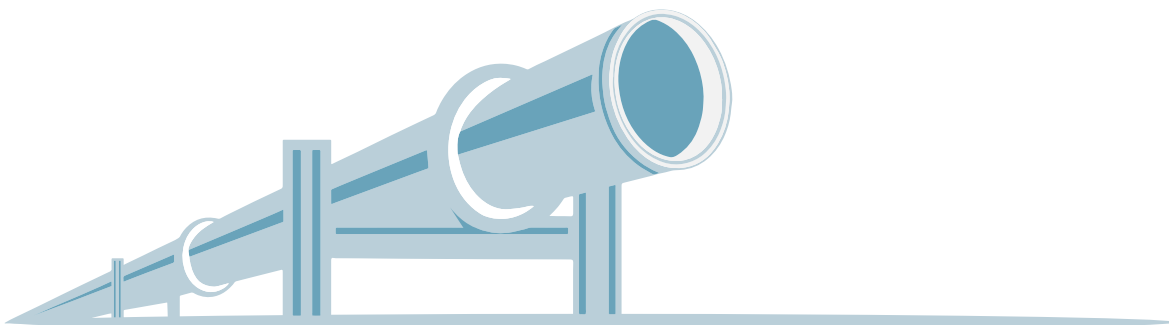


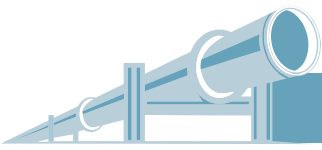


HISD | College, Career & Military Readiness
ASPIRE. PREPARE. SUCCEED.

Bridging the opportunity divide in advanced coursework: The AP Expansion Initiative

A 5-year strategy to ensure equitable, district-wide access to AP coursework and quality instruction.





The HISD Expansion Initiative will:

Empower

schools to make data-informed decisions

Increase

the number of students successful in AP courses

Align

a centralized curriculum with instruction

Improve

the capacity of faculty

Support

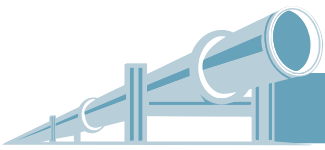
students with tutoring and enrichment activities

Expanding access to Pre-AP coursework and rigorous instruction beginning in the 8th and 9th grades will create a pipeline of students who are ready to pursue challenging college coursework and career paths such as STEM, pre-law, and healthcare. The AP Expansion Initiative is a five-year plan targeting 19 high schools with historically low AP passing rates. The Initiative bridges numerous support gaps that have resulted in low AP participation, including teacher turnover, not enough AP sections, low passing rates, and too few students to create a section.

Key pillars of this plan are data-driven course selection; a centralized curriculum aligned with instruction; curriculum implementation coaches; and ongoing professional development. Additional supports include tutoring and AVID electives. We believe these activities will, within five years, close a 38-percent-age-point equity gap in 10th-grade AP enrollment and produce scholars with the critical thinking, math, and writing skills to be successful in these courses.

“On our campus, we’re having dialogue about master scheduling and how we can use creativity and data-informed practices to best serve our students. Seeing this data, lightbulbs started going off. This is eye-opening to me.”

— Rhonda Honore, Waltrip High School principal



Opportunity 19 schools

For this proposal we have identified 19 comprehensive HISD campuses whose AP passing rates and participation in AP courses is significantly less than the district's average. We have broken these campuses into three tiers.

Tier III	Tier II	Tier I
High schools that struggle to offer more than eight AP courses also have some of the lowest AP pass rates in the district.	High schools that historically underutilize AP courses and struggle to help students achieve their potential in those courses.	High schools that have the resources (students with AP Potential) to provide strong AP programs but do not consistently leverage their resources to the maximum student benefit.

Excluding the Spanish Language AP tests, the following are the passing rates on AP exams from the 15-16 to the 19-20 school years:

• All campuses	39.0%
• 19 targeted comprehensive campuses Opportunity 19	8.8%
• Tier III	1.7%
• Tier II	5.2%
• Tier I	13.7%

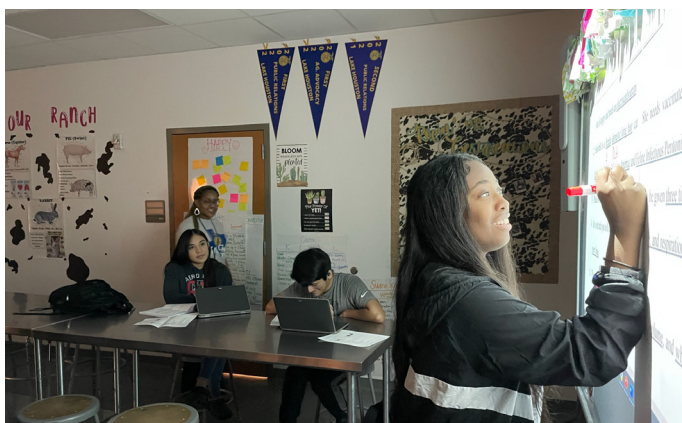
Seniors currently enrolled in AP course:

• All campuses	33.6%
• 19 targeted comprehensive campuses Opportunity 19	28.1%
• Tier III	25.7%
• Tier II	23.4%
• Tier I	36.3%

These comprehensive neighborhood schools have AP passing rates lower than the district's average of 39%, or have the potential to significantly increase the number of students taking AP courses. All 19 schools have low passing rates on STEM exams (ranging from 0% to 15% for the past five years). Schools are grouped into three tiers, with the 9 Tier III campuses receiving the most extensive supports.

TIER III	TIER II	TIER I
Yates	Houston MSTC	Waltrip
Wheatley	Sharpstown	Chavez
Scarborough	Wisdom	Westbury
Madison	Furr	Milby
Washington	Austin	
Worthing	Northside	
Sterling		
Kashmere		
North Forest		

The AP Expansion Initiative aims to significantly close equity gaps in AP passing rates within five years while producing scholars who can take on successfully the rigors of demanding majors in STEM, pre-law, and health care.



A student from North Forest High School participates in a group exercise in Secondary Teacher of Year Kaylin McNary's class.



Support Gaps

Students attending under-resourced schools experience significant **gaps** in support.

ENROLLMENT

- Opportunity 19 schools lose academically prepared scholars from feeder middle schools to college prep high schools.

Schools lack enough students to make a viable section for an AP Course, resulting in the course not being offered or needing an additional prep for a core content teacher.

STAFFING

- Opportunity 19 schools experience high teacher turnover, resulting in schools staffed with AP teachers who lack experience teaching AP courses.

Delays in hiring prevent access to critical summer training opportunities because staffing decisions are not made until very close to the start of the school year.



UNLOCKING POTENTIAL

Taking just one AP exam, regardless of the score, significantly improves a student's likelihood of graduating college within four years, boosting their job prospects.

Source: Wiley Online Library, College Board Research

- When there are mid-year vacancies, there is no “bench” of staff who can assume the teaching responsibilities for the course and continue with high-level instruction.
- Many campuses do not have the capacity to “make” a standalone pre-AP or AP course; thus, forcing a principal to create small sections of AP and larger sections of regular core courses or populating a pre-AP/AP course with “filler” students.

CURRICULAR/PROGRAMMATIC

Curricular

- Campuses do not use a standardized pre-AP or AP curriculum, preventing the ability to benchmark teacher and student performance and making it difficult to provide targeted tutoring and teacher training.
- Providing districtwide tutoring is problematic because students across various campuses, taking the same subject, are sequenced through content and skills at different paces.



EXPLORING REAL-WORLD PROBLEMS

High-quality project-based learning—a key part of many AP courses—allows students to explore real-world problems through individual and group projects and gives students the soft skills that employers are demanding.

Source: Lucas Education Research, College Board

If the course is offered, students are not likely to earn the 3+ on the AP exam that would make them eligible to earn college credit.

AVID

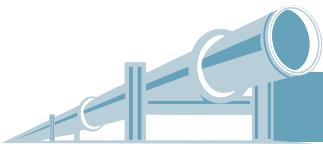
- AVID is in 8 out of 9 Tier III schools and none of HISD's Tier II and Tier I schools. Fewer than half of the 38 middle schools that feed into the Opportunity 19 campuses offer AVID.
- Smaller high schools and middle schools often do not have the capacity to staff an AVID elective class.

Equity and Impact



“We need to change their mindset, that our students can’t handle this challenge. Oftentimes students wouldn’t even attempt taking five AP courses. We have to encourage our students to take the next step.”

— Dr. Valencia Hall, Washington High School



SCHEDULING

- Adding AP classes at a small campus strains existing staff by introducing course preps that require a high level of instructional attention & support.
- Limited resources are already allocated to STAAR prep remediations.
- Data is not being used to strategically place students.
- Schools lack enough sections of the right courses in the right sequence.



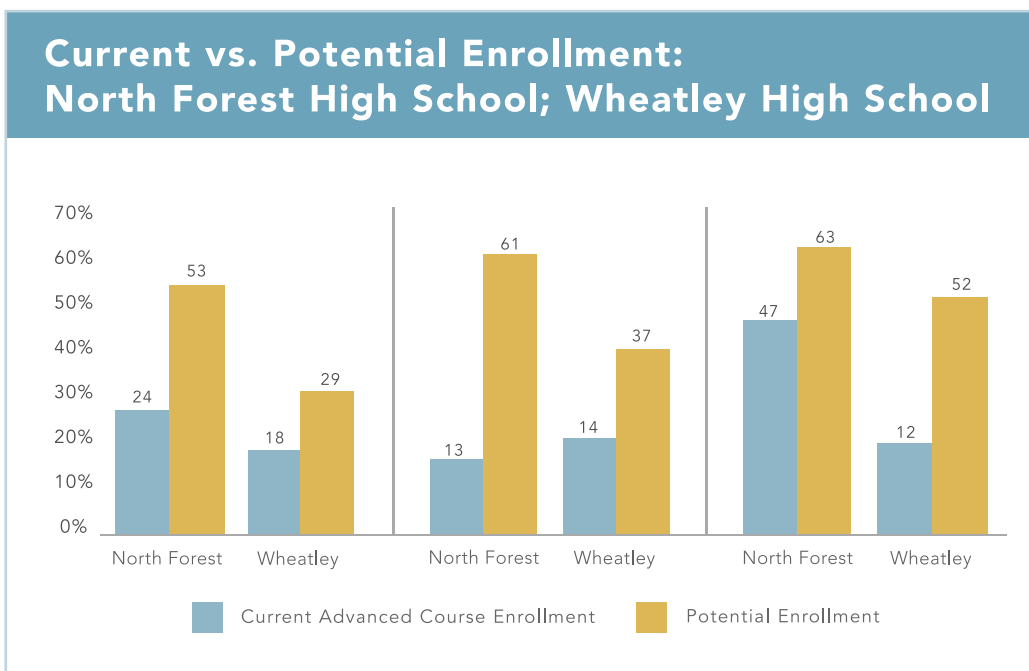
OPPORTUNITY GAP

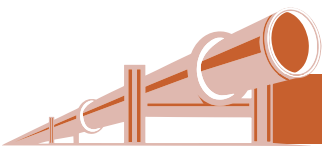
Students who are Black, Indigenous, and other non-Black people of color (BIPOC) are not enrolled in AP courses at rates comparable to their white and Asian peers, according to national data. And when they are, they experience less success.

Source: Civil Rights Data Collection

While many HISD students are fortunate to be zoned to high schools filled with academically prepared students taught by veteran teachers, those zoned to Tier III schools find the opposite is true. Their classmates may be a grade or more behind, and they often start the year without a certified teacher or with a teacher new to the profession.

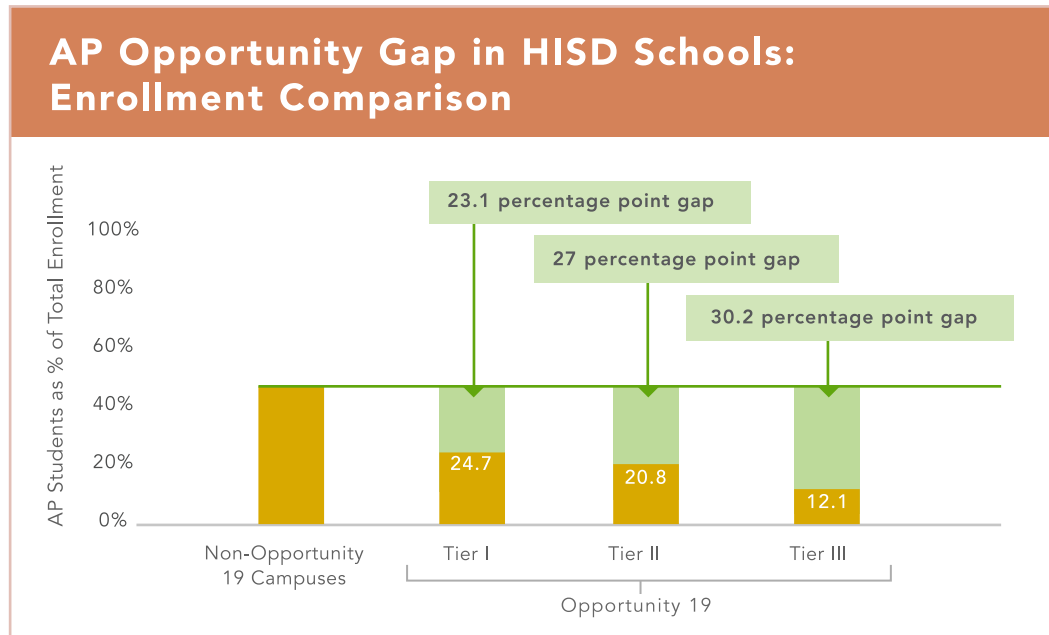
The chart below illustrates the current gaps for two Tier III schools, with the blue bar depicting the current enrollment and the yellow bar indicating the number of students who should have had the opportunity to take coursework beginning in the 9th grade to prepare them for AP coursework later in high school.





Access, Alignment & Support

The Importance of Access to AP Coursework, Exams



- AP students, including those with average scores of 1 or 2, are more likely to enroll in a four-year college compared to academically similar students who did not take AP in high school. AP students who average scores of 1 or 2 on their AP Exams are 16 and 19 percentage points, respectively, more likely to enroll in a four-year college than academically similar peers who did not take AP.
- Students who earn AP scores of 2 are well prepared to succeed in introductory college coursework. Compared to academically similar college peers who did not take the AP course, AP students who earn scores of 2 perform as well or better when they take those introductory college courses.

Many students who first score a 1 or 2 on an AP exam will take further AP courses and score higher. Depending on when students take their first AP exam, 61%–84% of students who earn a 2 on their first AP exam will take another AP exam in subsequent years. Students who earn a 1 on their first AP exam are also very likely (49%–70%) to take more AP courses and exams in high school. Many students who first earn an AP exam score of 1 or 2 will then earn a higher score on the subsequent AP exams they take. This trend is particularly true for 9th- and 10th- grade students who earn a score of 2 on their first AP exam.

Source: New Analyses of AP Scores of 1 & 2, AP College Board

We are implementing a series of systems-level changes to achieve greater access, alignment, and support for success in AP coursework, including:

- Data-driven Course Selection
- Acceleration & Pathways
- Mandated Use of AP Potential
- Centralized, Aligned Curriculum
- Curriculum Implementation Coaches
- AVID Expansion
- Creative Staffing Models
- Ongoing Professional Development
- Student-centered Support



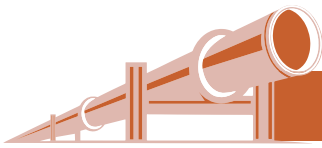
ACCESS



Data-driven Course Selection

The Pipeline enables campuses to use data to drive their course selection process. Each campus receives a list of students who, based on a variety of data points such as STAAR, PSAT and AP Potential, have the academic capacity to perform well in Pre-AP and AP coursework. Campuses receiving this data commit to offering the courses and ensuring students' schedules reflect their potential.

Young Women's College Preparatory Academy, which consistently ranks near the top of regional rankings by Children at Risk, requires all students to take Pre-AP and AP courses, prioritizing STEM.



ACCELERATION

AP math and science courses are some of the most challenging courses and, as a result, have some of the lowest rates of students earning college credit with a 3+ on the exam. Students often need support outside of the traditional course sequences.

ACCELERATION & PATHWAYS: ADVANCED MATH

Summer school original credit offerings in geometry and precalculus can accelerate students' journey toward graduation requirements. Additionally, we are working with schools to create multiple, advanced STEM pathways. For example, a senior tracking into an engineering program in college would take Calculus AB; however, a senior tracking into a major in finance would take AP Statistics. While both would take the same Pre-AP math courses as freshmen and sophomores, starting their junior year they would branch to math courses specific to their intended college major.

**Table 7, ACCELERATED & PATHWAY:
AP MATH**

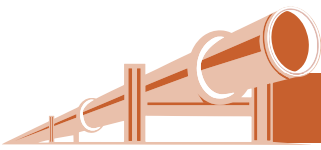
PATHWAY	Traditional	AP Calculus	College Credit Math	Computer Science
9th Grade	Algebra I	Pre-AP Algebra I	Pre-AP Algebra I	Pre-AP Algebra I
9-10 Summer	—	Pre-AP Geometry (OC)	—	Pre-AP Geometry (OC)
10th Grade	Geometry	Pre-AP Algebra II	Pre-AP Geometry & AP Comp. Sci. Principles <i>Double Blocked</i>	Pre-AP Algebra II
11th Grade	Algebra II	AP Precalculus	Pre-AP Algebra II	AP Comp. Sci. Principles 1st LOTE Credit Option to pair with Precalculus
12th Grade	Grad. Req. = 3 Cred. <i>If taking 4th math credit:</i> Precalculus College Prep Math Other Math Elective	AP Calculus AB with August bootcamp option	AP Statistics AP Computer Science AP Precalculus	AP Computer Science Double Blocked 4th Math Credit & 2nd LOTE Credit
Unique advantages to each pathway:		Provides an accelerated track with supplemental instruction to ensure students are prepared to enroll in AP Calculus.	Maximizes use of the AP Comp. Sci. Principles course while giving students choices for a college-level math class in 12th grade than is less rigorous than AP Calc and does not require summer school to complete.	Focused preparation for AP Computer Science. Meets graduation requirement for 2 LOTE credits. Could be utilized in conjunction with AP native language exam-only option in 9th grade. Provides access to AP courses that do not require as much reading and writing, and does not require completing an advanced math course.
		In 2020, AP Comp. Sci. Principles had 71% pass rate (students scoring a 3 or higher on the exam) Can be paired with PIT in 9th grade to integrate with a CTE course sequence.		

**Table 8, ACCELERATED & PATHWAY:
ENGLISH**

PATHWAY	Traditional	AP English	AP Capstone	Writing Intensive
9th Grade	English I	Pre-AP English I	Pre-AP English I	Pre-AP English I
10th Grade	English II	Pre-AP English II	Pre-AP English II	Pre-AP English II
11th Grade	English III	AP Language	AP Seminar with regular or HISD Advanced Eng III	AP Language & AP Seminar Double Blocked
12th Grade	English IV	AP Literature	AP Research with regular or HISD Advanced Eng IV	AP Literature & AP Research Double Blocked
Unique advantages to each pathway:		Most common pathway for offering AP courses in English	Advanced course option that emphasize analytical writing and thinking with more practical applica- tion to the course content	A very writing-intensive course sequence that might be best suited for a strong student interested in a traditional liberal arts education after high school

**Table 9, ACCELERATED & PATHWAY:
SCIENCE**

PATHWAY	Traditional	AP Bio & AP Chem	AP Chem	UT OnRamps Physics
9th Grade	Biology	Pre-AP Biology	Pre-AP Biology	Pre-AP English I
10th Grade	Chemistry	AP Biology	Pre-AP Chemistry	Pre-AP English II
11th Grade	Physics	Pre-AP Chemistry	AP Chemistry	AP Language & AP Seminar Double Blocked
12th Grade	Grad. Req. = 3 Credits	AP Chemistry	College Level Options for 4th Science AP Environmental Science UT OnRamps Physics with AP Physics Exam-Only Option	Choice of AP Science Courses AP Biology AP Chemistry AP Environmental Science
Unique advantages to each pathway:		Pathway for students interested in medical school, or careers in the medical field (nursing, physical therapy, public health, etc.)	Pathway emphasizes advanced physical science courses while providing the opportunity for two science courses that can earn college credit	Provides advanced science pathway that can earn a student college credit through course completion instead of exam performance



Use AP Potential Report to Expand Offerings

Campuses should be required to use the AP Potential report and Opportunities to Expand report to expand AP offerings. All HISD students take the school-day PSAT exam annually, starting in 8th grade. The College Board provides a predictive (student level) list of AP courses in which students would be successful. A summary table (*right*) illustrates the missed AP potential from that report.

The first column adds up all the subjects where there would be enough students (15 or more) and either there is no course offered at that campus or there could be more sections offered. The second column is the total number of students who could be in an AP section.

Tiers I and II have greater pool of students for AP sections

School	# of subjects where a course selection could be added	# of students not in AP course where they could score 3 or better (duplicated)
Furr	6	111
Austin	18	540
Northside	10	396
Wisdom	14	350
Houston MSTC	9	236
Sharpstown	1	15
Waltrip	24	1769
Chavez	21	1536
Westbury	21	1317
Milby	15	841

There are AP courses that nationally have very high success rates—(AP Seminar (78%) and Research (73%), AP Computer Science Principles (71%)—that could be more widely offered across HISD.

Depending on campus, access to AP coursework varies widely

NUMBER OF AP COURSES OFFERED

Tier III		Tier I and II		Non-Opportunity	
Average	7.7	Average	13.3	Average	20.1
Madison	12	Waltrip	20	Bellaire	30
Sterling	12	Westbury	17	Carnegie Vanguard	27
Kashmere	9	Houston MSTC	15	Westside	22
North Forest	9	Milby	15	DeBakey	21
Washington	8	Furr	12	Eastwood	19
Yates	6	Austin	11	Energy Institute	17
Wheatley	5	Wisdom	11	YWCPA	17
Worthing	5	Northside	10	Mickey Leland CP	15
Scarborough	3	Sharpstown	9	Kinder HSPVA	13
				Sharpstown Int.	10
				Law and Justice HS	9

*IB, charter campuses, and early colleges not included



ALIGNMENT

Centralized, Aligned Curriculum

Students who earn an A or B in an AP course should score a 3 or higher on the corresponding AP exam – but that isn't happening in our Opportunity 19 schools. To address this, the Pipeline has implemented a high-quality, centralized curriculum. To monitor student growth, aligned student assessments and course benchmarks are required for all Pre-AP & AP courses. For teachers, ongoing professional development prepares them to use this curriculum effectively. At every step, ongoing curriculum and instructional support is being provided to these teachers.

Equitable Access to Grade Appropriate Assignments

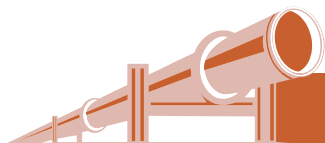
The Pipeline includes investment in the Pre-AP Curriculum from College Board for each campus. Teachers can then use this common curriculum, benchmarks, assessments, and mock exams to monitor student performance. By increasing the rigor of the 9th and 10th grade courses in a structured way, more students are being prepared for the rigor of the AP courses that are offered in the 11th and 12th grade.

The Pre-AP Designation emphasizes the most critical elements to encourage student growth and the development of the skills that help them achieve their full potential, including:

- Consistency
- Building Teacher Capacity
- Focus
- Best in Class Assignments



AP Testing in progress at Carnegie Vanguard High School.



SUPPORT

Centrally Funded Curriculum Implementation Coaches (CICs)

Postsecondary Programming has hired a team of exceptional AP teachers to serve as Curriculum Implementation Coaches (CICs). Currently, CICs cover the subject areas of Advanced math, physics, and English. The goal is to expand coaching competencies to include AP Precalculus, AP Biology, and AP Capstone. The Postsecondary department currently has one CIC per core subject area. By expanding the number of CICs to two per subject area, we will provide more focused support for identified AP courses.

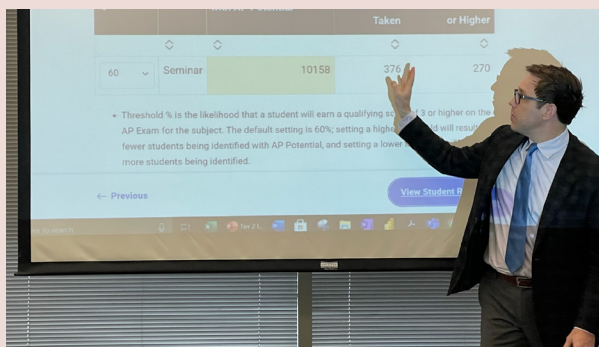
Postsecondary Programming Leading "Architects of Change" PLCs to Guide AP Expansion



KEY LEARNINGS FOR ATTENDEES:

AP POTENTIAL

At this event, leaders explored the potential and power of AP Seminar and AP Research, two courses which together form the basis of the AP Capstone Diploma Program and are not widely offered throughout HISD. Leaders realized how many of their students showed potential for these two courses. These courses distinguish students when applying to the most competitive and prestigious universities.



AP CLASSROOM

AP Classroom gives a detailed view of students' assignments and performance, with progress-monitoring data. Teachers, coaches and administrators can see individual questions missed and the trends indicated by those missed questions. This data reveals weaknesses and links teachers and students with targeted resources.

AVID

We propose mandating AVID across all 19 campuses as well as middle school feeder patterns. AVID, when implemented with fidelity, infuses critical thinking, discussion and writing skills across disciplines. AVID strategies such as Cornell Note Taking give students the tools to succeed in demanding Pre-AP courses. However, even though it's funded 100% for three years with ESSER funds, campuses can opt out of AVID. As part of the AP Initiative we recommend mandating AVID at all AP Pipeline high schools and middle schools.

Currently 8 out of 9 Tier III campuses have one or more centrally funded AVID elective teachers. We propose staffing a centrally funded AVID teacher at all Tier III and II campuses and their feeder middle schools. The College Readiness department, which oversees AVID, will hire, train, and evaluate the AVID elective teachers. When a strong teacher is in place, the AVID elective class becomes an essential component in supporting students who are experiencing more rigorous pre-AP courses for the first time.

AVID expanding to Opportunity high schools

TIER III SCHOOL	2022	2023
Wheatley	✓	✓
North Forest	✓	✓
Yates	✓	✓
Scarborough	✓	✓
Washington		
Madison	✓	✓
Worthing		✓
Sterling		✓
Kashmere	✓	✓



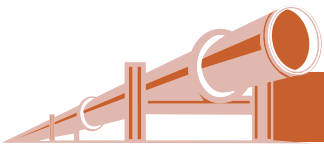
Kashmere High School AVID student, recipient of the Dell Scholars UT Austin Scholarship

AVID expands to 6 campuses

In 2022, Postsecondary Programming added AVID elective teachers to six campuses:

- Kashmere
- North Forest
- Wheatley
- Yates
- Madison
- Scarborough





Creative Staffing Models

Where staffing shortages exist, there is an opportunity for a creative staffing model with a visiting instructor, or the infusion of a full-time teacher who is participating in the Aspiring AP Teacher Academy. A creative staffing model will address teacher shortages by assigning a centrally funded dean of instruction and teacher to serve multiple campuses. In addition to hiring and assigning AP Expansion Faculty to teach the supplemental courses, Postsecondary Programming will provide curriculum training and program onboarding.



Worthing High School is among campuses receiving support through the AP Expansion Initiative.

AP Seminar and AP Research are two of the most engaging courses we offer at Waltrip. They come up with amazing topics and it's driven by the students. Kids conduct intense research, sometimes using QR codes for surveys and then presenting their results.

— Rosalind Barley,
Waltrip High School

Build capacity with the Aspiring AP Teacher Corps

The Teacher Pipeline and Instructional Support model recruits teachers to supplement existing teaching staff on high-need campuses. This ensures high-quality instruction for existing students while also developing teachers to take on this responsibility in years 2 & 3. The teacher-in-training also builds relationships with students and families, investing in the students who will become his or her AP students in the coming years.

Employ traveling teacher model to increase capacity

Some AP courses may have only a few students eligible and interested until we grow capacity on the campus by implementing additional pre-AP courses. In the interim, a course like AP Calculus AB could be offered by a "Traveling Teacher" at 3-5 campuses who have a handful of students who deserve access to the course. This would function similar to an adjunct faculty member from HCC coming to campus to teach a Dual Credit course.

HOUSTON INDEPENDENT SCHOOL DISTRICT

Join the team now!

Let us know you're interested!

HISD
ADVANCED PLACEMENT
EXPANSION INITIATIVE
Join our AP Expansion teaching faculty team!

Houston ISD is on a mission to create equitable access to AP courses - especially in STEM - and increase the number of students earning college credit district-wide.

We need incredible AP teachers like you to join our team and help us make this mission a success!

How does it work?

AP Expansion teachers will...

- Only have 2 prep - either two AP courses or an AP course and the PreAP prerequisite
- Split duties between at least two campuses
- Create opportunities for students to take otherwise be unable to staff
- Have small class size
- Participate in world-class professional development opportunities
- Receive support from coaches and peers in a course-specific Professional Learning Community
- Have an embedded tutor to support tutorials, remediation and small group instruction

Who should apply?

- Teachers with experience teaching AP courses to students with varying levels of preparedness and exposure to advanced courses
- Teachers who want to build community of AP scholars and invest time in growing students' academic confidence and creating a culture of achievement in their schools
- Teachers who are excited about contributing to the program goals rooted in equity and access to advanced courses for every neighborhood in Houston ISD

High-Need Positions Include...

- AP Computer Science Principles
- AP Statistics
- AP Precalculus
- AP Calculus AB
- PreAP/AP Biology
- PreAP/AP Chemistry
- AP Environmental Systems
- AP Computer (Domain & Research)
- AP English Language & English Literature

Apply Online at
www.houstonisd.org/APexpansion

Application Opens:
March 1, 2023

HISD
Postsecondary
Programming

Postsecondary@Houstonisd.org (713) 556-6136

ADVANCED PLACEMENT EXPANSION INITIATIVE

Teacher turnover is a significant challenge because AP courses require additional training and content specializations. Recruitment activities in partnership with schools seek centrally funded AP Expansion teachers to serve multiple campuses. These supplement campus-based teachers in core subjects allow for a wider variety of AP courses to be offered at a school with staffing shortages.



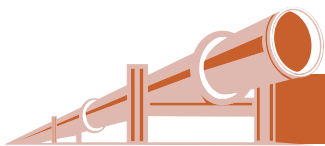
School-based staff from Opportunity 19 campuses access their students' AP Potential reports.

Implement a shared-teacher model for stand-alone AP courses

Some campuses will not have enough students to warrant hiring an entire teacher to teach a single course (AP Psychology, AP Computer Science Principles, AP Seminar / Research, as examples). However, a campus could share a teacher with another campus to have enough sections. This teacher would, for example, teach AP Psychology at one school on an "A" day, and another campus on a "B" day (or mornings vs. afternoons), thus allowing both campuses to expand their AP course offerings.

Offer performance-based and retention stipends

Dual credit teachers receive a stipend, which has greatly assisted HISD in recruiting and retaining qualified teachers. A stipend paid out fall and spring for pre-AP and AP teachers would have a similar impact. Stipends would be contingent on teachers attending professional development opportunities provided by Postsecondary Programming. Additional stipends could be earned for being the lead AP teacher on a campus.



AP Teacher Professional Development Academy

As part of the AP Initiative, Postsecondary Programming is providing comprehensive and year-long professional development.

KEY COMPONENT ①	Intensive Training Pre-AP and AP teachers participate in intensive summer institutes through NMSI (National Math and Science Institute) and the College Board.
KEY COMPONENT ②	Required Participation The expectation from campus leadership must be that pre-AP and AP teachers are required to participate in the entirety of the Academy's offerings.
KEY COMPONENT ③	Funding for Stipends & Substitutes This will free up faculty to participate in these trainings and compensate them for time outside their duty schedule.

AP STEM Summer Camps for Opportunity 19 students



TAPIA Camps

Week-long residential STEM camps at Rice, emphasizing communication and equity.

CALC Squared

Three-week summer program for students at Rice to start their journey to conquering AP calculus.

RUSMP

Rice University School of Mathematics Project: Two-week math camps at Rice.

AP Leadership Academy

Week-long camp with 4H at Lake Brownwood to build leadership capacity.

Houston PREP

Mathematics-based pre-college enrichment program at UH Downtown.

NMSI

The National Math and Science Initiative provides learning activities, practice, and review modules on topics chosen by students.

Additional Strategies

Taking the AP Spanish Language Exam

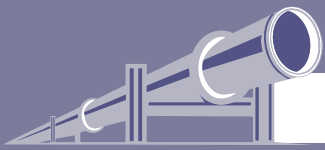
Bilingual students should be encouraged to take the AP Spanish Language exam, which enables them to earn college credit without taking unnecessary semesters of a foreign language. This opens their schedule up to an elective while saving money on tuition when they enroll in college.

In-classroom Tutoring through the UH ACES Program

The UH Advancing Community Engagement and Service (ACES) tutoring program allows university students to work with high school schools while embedded in their classroom. This enables teachers to focus on targeted and differentiated skill development while filling a critical need for math and science tutoring.



UH-ACES tutors (in red) support multiple high schools, including Madison (top), Sterling (left), Yates (center), and Kashmere (right).



The HISD AP Expansion Initiative

Current State

Enrollment Gap

- Students leave their zoned school to attend a high school with more AP offerings
- Too few prepared students to create AP sections
- 38-percentage-point gap in 10th grade AP enrollment between Opportunity schools and non-Opportunity schools

Resource Gap

- High teacher turnover
- Inconsistent use of data, AVID, centralized curriculums and professional development

Investments

Professional Development

- Rice, NMSI
- CollegeBoard

Curriculum

- College Board
- Pre-AP Curriculum

Data

- AP Potential report
- Opportunities to Expand report

HISD

- Executive director
- 2 directors
- 5 AP academic deans
- 30+ AP initiative teacher corps
- 10+ AVID elective teachers
- Stipends, trainers, substitute teachers, AP readers

Activities

Data-Driven Decision-Making

- Strategic course offerings
- Course selections based on data on incoming 9th grade class

Centralized, Aligned Curriculum

- Implement Pre-AP curriculum from College Board at each campus
- Aligned student assessments & course benchmarks required for all courses
- Ongoing PD for teachers in Pre-AP & AP courses

Outcomes

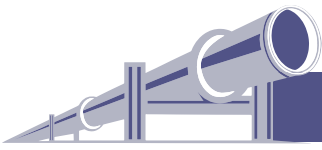
Capacity Building

- Centrally funded dean of instruction & teachers serve multiple campuses
- Curriculum training & onboarding
- Required attendance in AP Teacher Professional Development Academy
- Teachers receive fall and spring stipends for attending PD or serving as a lead AP teacher

Student Support

- Tutoring and academic counseling
- Mandating AVID at all AP Pipeline campuses
- On-demand supplemental instruction
- Summer school original credit offerings
- Strategic science sequencing through Pre-AP courses in biology and chemistry followed immediately by the AP course
- Feedback for students in writing-heavy courses provided by AP Readers

- ✓ Ninth and 10th grade courses at all HISD high schools offer increased rigor in a structured way.
- ✓ All 19 Opportunity schools have an AVID elective delivered by a quality teacher.
- ✓ Students at all 19 Opportunity schools develop critical thinking, math and writing skills across disciplines.
- ✓ Scholars at 19 Opportunity high schools can take on successfully the rigors of demanding majors in STEM, pre-law, and health care.
- ✓ More students pass exam as more students take AP classes related to STEM.
- ✓ Equity gaps in AP passing rates close within five years.



APPENDIX 1: Goals

2023-2024

Tier III Increase AP exam passing rate from	2.1% to 3.5%
Tier II increase AP exam passing rate from	7.2% to 10%
Tier I increase AP exam passing rate from	13.7% to 18%
Tier III increase STEM passing rate from	1% to 3%
Tier II increase STEM passing rate from	6.6% to 9%
Tier I increase STEM passing rate from	11.4% to 15%
Each Tier III will have 'x' STEM courses	1
Each Tier II will have 'x' STEM courses	2
Each Tier I will have 'x' STEM courses	3
Tier III will increase the % students taking AP	23.6% to 25%
Tier II will increase the % students taking AP	24.6% to 27%
Tier I will increase the % students taking AP	36.3% to 40%

2024-2025

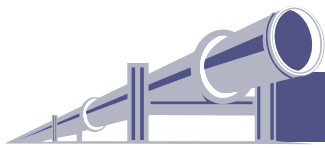
Tier III Increase AP exam passing rate from	2.1% to 7%
Tier II increase AP exam passing rate from	7.2% to 14%
Tier III increase AP exam passing rate from	13.7% to 20%
Tier III increase STEM passing rate from	1% to 6%
Tier II increase STEM passing rate from	6.6% to 12%
Tier I increase STEM passing rate from	11.4% to 19%
Each Tier III will have 'x' STEM courses	2
Each Tier II will have 'x' STEM courses	3
Each Tier I will have 'x' STEM courses	4
Tier III will increase the % of students with AP potential	16.6% to 20%
Tier II will increase the % students with AP potential	22.0% to 26%
Tier I will increase the % students with AP potential	35.3% to 39%
Tier III will increase the % students taking AP	23.6% to 26.5%
Tier II will increase the % students taking AP	24.6% to 29%
Tier I will increase the % students taking AP	36.3% to 42%

2025-2026

Tier III Increase AP exam passing rate from	2.1% to 9%
Tier II increase AP exam passing rate from	7.2% to 16%
Tier III increase AP exam passing rate from	13.7% to 24%
Tier III increase STEM passing rate from	1% to 9%
Tier II increase STEM passing rate by %	6.6% to 15%
Tier I increase STEM passing rate by %	11.4% to 21%
Each Tier III will have 'x' STEM courses	3
Each Tier II will have 'x' STEM courses	4
Each Tier I will have 'x' STEM courses	4
Tier III will increase the % of students with AP potential	16.6% to 22%
Tier II will increase the % of students with AP potential	22.0% to 28%
Tier I will increase the % of students with AP potential	35.3% to 42%
Tier III will increase the % students taking AP	23.6% to 29%
Tier II will increase the % students taking AP	24.6% to 33%
Tier I will increase the % students taking AP	36.3% to 46%

2026-2027

Tier III Increase AP exam passing rate from	2.1% to 11%
Tier II increase AP exam passing rate from	7.2% to 18%
Tier III increase AP exam passing rate from	13.7% to 27%
Tier III increase STEM passing rate from	1% to 12%
Tier II increase STEM passing rate by %	6.6% to 18%
Tier I increase STEM passing rate by %	11.4% to 25%
Each Tier III will have 'x' STEM courses	4
Each Tier II will have 'x' STEM courses	4
Each Tier I will have 'x' STEM courses	4
Tier III will increase the % of students with AP potential	16.6% to 24%
Tier II will increase by 'x' % students taking AP based on AP potential	22.0% to 30%
Tier I will increase by 'x' % students taking AP based on AP potential	35.3% to 44%
Tier III will increase the % students taking AP	23.6% to 32%
Tier II will increase the % students taking AP	24.6% to 36%
Tier I will increase the % students taking AP	36.3% to 50%



APPENDIX 2: Budget

2022-2023		
PD Support		\$936,000
Pre-AP Curriculum		\$364,000
Tutoring		\$66,000
Supplies		\$224,444
Technology		\$89,451
Student Activities		\$1,264,020
Study Materials		\$281,670
Operating Cost		\$58,047
Staff		\$2,527,095
• Senior Managers	4	
• Deans	4	
• CIC	6	
• AVID Teachers	7	
• AP Teachers	0	
		\$5,810,726

2023-2024		
PD Support		\$982,000
Pre-AP Curriculum		\$364,000
Tutoring		\$66,000
Supplies		\$224,444
Technology		\$89,451
Student Activities		\$1,264,020
Operating Cost		\$58,047
Staff		\$3,506,350
• Senior Managers	4	
• Deans	4	
• CIC	6	
• AVID Teachers	9	
• AP Teachers	12	
		\$6,554,311

2024-2025		
PD Support		\$500,000
Pre-AP Curriculum		\$300,000
Tutoring		\$66,000
Supplies		\$100,000
Technology		\$40,000
Student Activities		\$500,000
Operating Cost		\$25,000
Staff		\$3,763,812
• Senior Managers	5	
• Deans	4	
• CIC	6	
• AVID Teachers	9	
• AP Teachers	12	
• Academic Program Manager	1	
		\$5,294,812

APPENDIX 3: AP Potential

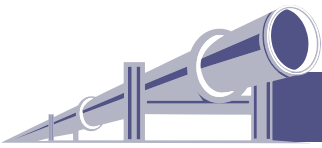
		Biology	Chemistry	Env Science	Phys 1	Phys 2	Phys C.M	Phys C. EM	Calc AB	Calc BC	Comp Sci A	CSP	Stat Section	Eng Lang
TIER III	BT Washington											19		
TIER III	Yates													
TIER III	Madison											36		18
TIER III	Kashmere													
TIER III	North Forest													
TIER III	Wheatley													
TIER III	Sterling	15										39		28
TIER III	Scarborough											19		
TIER III	Worthing													
TIER II	Furr											29		17
TIER II	Wisdom	21		15								45		28
TIER II	Northside	24										63		33
TIER II	Houston MSTC	17										43		25
TIER II	Sharpstown											15		
TIER II	Austin	28		17			15					66	16	43
TIER I	Chavez	81	26	51			35		26	26	35	170		99
TIER I	Milby	46		20								119		79
TIER I	Waltrip	87	32	56	18		38	15	33	33		182	44	121
TIER I	Westbury	61	23	38			30		24	24	30	159		99

A **course gap (blue)** represents an opportunity to add an AP course for which 15 or more students demonstrated AP Potential and the school currently does not offer.

A **section gap (green)** represents an opportunity to add sections of an AP course currently offered at a school, where there are 15 or more students who have AP Potential for that course.

■ Course Gap ■ Section Gap

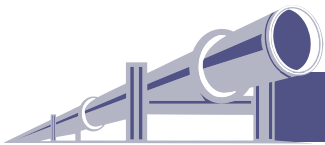
		Eng Lit	U.S. Hist	Eur Hist	World Hist	U.S. Gov	Comp Gov	Micro Ec	Macro Ec	Psychology	Human Geo	Art Hist	Mus Theory
TIER III	BT Washington				16								
TIER III	Yates												
TIER III	Madison				23					20	20	18	
TIER III	Kashmere												
TIER III	North Forest												
TIER III	Wheatley												
TIER III	Sterling		15	17	33					31	31	28	15
TIER III	Scarborough												
TIER III	Worthing												
TIER II	Furr				18					15	15	17	
TIER II	Wisdom		21	22	37	15	16			33	33	28	21
TIER II	Northside		24	32	58					54	54	33	21
TIER II	Houston MSTC		17	21	30					29	29	25	
TIER II	Sharpstown												
TIER II	Austin	19	28	30	57	17	18			45	45	43	21
TIER I	Chavez	41	81	90	149	46	57	51	26	138	138	99	71
TIER I	Milby	20	46	52	98	18	26	20		91	91	79	36
TIER I	Waltrip	52	87	95	154	51	60		32	143	143	121	78
TIER I	Westbury	39	61	72	132	36	43	38	23	114	114	99	58



APPENDIX 4: AP Course Offerings, Pass Rates, and AP Potential

TIER 3					
School Name		Deficits	Number of core AP Courses		AP Potential at 60% for top 6 courses
Wheatley	92% score 1 on AP exam	18 STEM exams given since 2016 0% score 3+	AP ENG LANG A	18	New Course
			AP ENG LIT A	11	AP Biology 20
			AP HUMAN GEO A	21	AP Calculus AB 20
			AP MACRO ECO	24	AP Chemistry 20
			AP US GOVT	16	AP Comp Sci Prin 19
			AP US HISTORY A	18	AP Statistics 19
			AP WORLD HIST A	18	AP Seminar 20
			Grand Total	126	
North Forest	88% score 1 on AP exam	63 STEM exams given since 2016 0% score 3+	AP BIOLOGY A	21	New Course
			AP CAL AB A	9	AP Biology 20
			AP ENG LANG A	21	AP Calculus AB 20
			AP ENG LIT A	53	AP Chemistry 20
			AP MACRO ECO	48	AP Comp Sci Prin 19
			AP US GOVT	50	AP Statistics 19
			AP US HISTORY A	35	AP Seminar 20
			AP WORLD HIST A	24	Growth Potential
			Grand Total	261	AP Biology 36
					AP Calculus AB 36
Yates	87% score 1 on AP exam	114 STEM exams given since 2016 0% score 3+	AP ComSciPrin A	27	AP Biology 20
			AP ENG LANG A	19	AP Calculus AB 20
			AP ENG LIT A	17	AP Chemistry 20
			AP MACRO ECO	15	AP Comp Sci Prin 19
			AP US GOVT	15	AP Statistics 19
			AP US HISTORY A	18	AP Seminar
			AP WORLD HIST A	24	20
			Grand Total	135	
			Note, school offers: IB Lang & Lit IB Mathematics Applications IB Biology IB History		
Worthing	89% score 1 on AP exam	120 STEM exams given since 2016 0% score 3+	AP ENG LANG A	29	AP Biology 28
			AP ENG LIT A	11	AP Comp Sci Prin 26
			AP ENVIRN SCI A	5	AP Seminar 28
			AP US HISTORY A	24	AP Statistics 27
			AP WORLD HIST A	16	
			Grand Total	85	
			Note, school offers: IB Mathematics Applications		Growth potential: AP Env Science 27

TIER 3					
School Name		Deficits	Number of core AP Courses		AP Potential at 60% for top 6 courses
Sterling	91% score 1 on AP exam	58 STEM exams given since 2016 0% score 3+	AP CAL AB A	10	New courses:
			AP ComSciPrin A	88	AP Biology 75
			AP CS A LOTE A	9	AP Chemistry 74
			AP CS A MATH A	9	AP Seminar 75
			AP ENG LANG A	32	AP Statistics 69
			AP ENG LIT A	30	Growth potential:
			AP ENVIRN SCI A	34	AP Calculus AB 74
			AP MACRO ECO	23	AP Env Science 71
			AP US GOVT	20	
			AP US HISTORY A	37	
			AP WORLD HIST A	34	
			Grand Total	326	
Scarborough	74% score 1 on AP exam	226 STEM exams given since 2016 4% score 3+	AP CAL AB A	8	New courses:
			AP CHEMISTRY A	16	AP Biology 49
			AP ENG LANG A	13	AP Comp Sci Prin 47
			AP ENG LIT A	21	AP Seminar 49
			AP PHYSICS 1A	19	AP Statistics 47
			AP WORLD HIST A	31	Growth potential:
			Grand Total	108	AP Calculus AB 49
					AP Env Science 47
Washington	87% score 1 on AP exam	216 STEM exams given since 2016 8% score 3+	AP BIOLOGY A	29	New courses:
			AP CAL AB A	9	AP Comp Sci Prin 33
			AP CAL BC A	3	AP Env Science 34
			AP CHEMISTRY A	28	AP Seminar 35
			AP ENG LANG A	21	AP Statistics 34
			AP ENG LIT A	27	Growth potential:
			AP MACRO ECO	29	AP Calculus AB 34
			AP PHYSICS 1A	14	AP Physics 1 35
			AP US GOVT	22	
			AP US HISTORY A	25	
			AP WORLD HIST A	30	
			Grand Total	237	
Madison	85% score 1 on AP exam	288 STEM exams given since 2016 8% score 3+	AP ENG LANG A	31	New courses:
			AP ENG LIT A	42	AP Biology 112
			AP ENVIRN SCI A	40	AP Calculus AB 112
			AP MACRO ECO	42	AP Comp Sci Prin 120
			AP STATISTICS A	16	AP Seminar 122
			AP US GOVT	41	Growth potential:
			AP US HISTORY A	49	AP Env Science 119
			AP WORLD HIST A	60	AP Statistics 118
			Grand Total	321	



TIER 3

School Name		Deficits	Number of core AP Courses		AP Potential at 60% for top 6 courses	
Kashmere	93% score 1 on AP exam	67 STEM exams given since 2016 0% score 3+	AP CAL AB A	7	New courses:	
			AP ENG LANG A	9	AP Biology	25
			AP ENG LIT A	10	AP Comp Sci Prin	21
			AP ENVIRN SCI A	14	AP Seminar	25
			AP MACRO ECO	8	AP Statistics	23
			AP PHYSICS 1A	9	Growth potential:	
			AP US GOVT	7	AP Calculus AB	25
			AP US HISTORY A	12	AP Physics 1	25
			AP WORLD HIST A	17		
			Grand total	93		

TIER 2

School Name		Deficits	Number of core AP Courses		AP Potential at 60% for top 6 courses	
Houston MSTC	72% score 1 on AP exam	694 STEM exams given since 2016 2% score 3+	AP BIOLOGY A	34	New courses:	
			AP CAL AB A	17	AP Comp Sci Prin	16
			AP CHEMISTRY A	24	AP Seminar	173
			AP ENG LANG A	83	AP Statistics	165
			AP ENG LIT A	34	Growth potential:	
			AP ENVIRN SCI A	14	AP Biology	172
			AP HUMAN GEO A	9	AP Calculus AB	173
			AP MACRO ECO	86	AP Env Science	164
			AP PHYSICS 1A	45		
			AP US GOVT	79		
			AP US HISTORY A	81		
			AP WORLD HIST A	112		
			Grand Total	618		
			Northside	75% score 1 on AP exam	1007 STEM exams given since 2016 9% score 3+	AP BIOLOGY A
AP CAL AB A	32	AP Chemistry				112
AP CAL BC A	3	AP Env Science				102
AP ComSciPrin A	8	AP Physics 1				112
AP ENG LANG A	74	AP Statistics				106
AP ENG LIT A	47	Growth potential:				
AP HUMAN GEO A	18	AP Biology				113
AP PHYSICS 1A	34	AP Comp Sci Prin				111
AP US HISTORY A	69					
AP WORLD HIST A	75					
Grand Total	390					

TIER 2					
School Name		Deficits	Number of core AP Courses		AP Potential at 60% for top 6 courses
Wisdom	77% score 1 on AP exam	421 STEM exams given since 2016 5% score 3+	AP BIOLOGY A	2	New courses:
			AP CAL AB A	11	AP Comp Sci Prin 55
			AP CHEMISTRY A	3	AP Seminar 57
			AP ENG LANG A	28	AP Statistics 56
			AP ENG LIT A	28	Growth potential:
			AP ENVIRN SCI A	24	AP Biology 57
			AP HUMAN GEO A	27	AP Calculus AB 57
			AP MACRO ECO	28	AP Env Science 55
			AP PHYSICS 1A	8	
			AP PSYCHOLOGY	19	
			AP US GOVT	27	
			AP US HISTORY A	53	
			AP WORLD HIST A	46	
			Grand Total	304	
Furr	80% score 1 on AP exam	193 STEM exams given since 2016 6% score 3+	AP CAL AB A	24	New courses:
			AP ENG LANG A	61	AP Biology 76
			AP ENG LIT A	51	AP Comp Sci Prin 73
			AP ENVIRN SCI A	62	AP Seminar 76
			AP HUMAN GEO A	131	AP Statistics 74
			AP PHYSICS 1A	54	Growth potential:
			AP PSYCHOLOGY	53	AP Calculus AB 75
			AP US GOVT	39	AP Physics 1 76
			AP US HISTORY A	64	
			AP WORLD HIST A	91	
			Grand Total	630	
Austin	76% score 1 on AP exam	654 STEM exams given since 2016 3% score 3+	AP CHEMISTRY A	25	New courses:
			AP ComSciPrin A	25	AP Biology 97
			AP ENG LANG A	38	AP Calculus AB 95
			AP ENG LIT A	22	AP Seminar 9
			AP ENVIRN SCI A	7	Growth potential:
			AP PHYS C:E & M	2	AP Chemistry 97
			AP PHYS C:MECH	2	AP Comp Sci Prin 95
			AP STATISTICS A	11	AP Statistics 93
			AP US HISTORY A	26	
			AP WORLD HIST A	35	
			Grand Total	193	
Sharpstown	56% score 1 on AP exam	174 STEM exams given since 2016 15% score 3+	AP CAL AB A	15	New courses:
			AP CAL BC A	2	AP Biology 64
			AP ENG LIT A	49	AP Comp Sci Prin 61
			AP ENVIRN SCI A	21	AP Seminar 64
			AP MACRO ECO	38	AP Statistics 61
			AP US GOVT	38	Growth potential:
			AP WORLD HIST A	77	AP Calculus AB 63
			Grand Total	240	AP Env Science 60



TIER 1

School Name		Deficits	Number of core AP Courses		AP Potential at 60% for top 6 courses	
Waltrip	53% score 1 on AP exam	904 STEM exams given since 2016 22% score 3+	AP BIOLOGY A	77	New courses:	
			AP CAL AB A	19	AP Comp Sci Prin	188
			AP CHEMISTRY A	10		
			AP ENG LANG A	158		
			AP ENG LIT A	62	Growth potential:	
			AP ENVIRN SCI A	19	AP Biology	194
			AP HUMAN GEO A	32	AP Calculus AB	192
			AP MACRO ECO	129	AP Env Science	176
			AP PHYSICS 1A	48	AP Seminar	194
			AP PSYCHOLOGY	24	AP Statistics	181
			AP STATISTICS A	15		
			AP US GOVT	129		
			AP US HISTORY A	157		
			AP WORLD HIST A	131		
			Grand Total	1010		
Chavez	55% score 1 on AP exam	761 STEM exams given since 2016 11% score 3+	AP CAL AB A	123	New courses:	
			AP ComSciPrin A	28	AP Seminar	250
			AP HUMAN GEO A	24	AP Statistics	227
			AP MACRO ECO	60		
			AP US GOVT	52	Growth potential:	
			AP WORLD HIST A	131	AP Calculus AB	244
			Grand Total	418	AP Comp Sci Prin	247
			Note, the school offers: IB Lang & Lit IB Mathematics Analysis IB Mathematics Applications IB Biology IB Environmental Systems IB Physics IB History		AP HUMAN GEO	250
					AP US GOVT	214
Westbury	65% score 1 on AP exam	896 STEM exams given since 2016 4% score 3+	AP BIOLOGY A	42	New courses:	
			AP CAL AB A	50	AP Chemistry	193
			AP ComSciPrin A	44	AP Statistics	178
			AP ENG LANG A	110	Growth potential:	
			AP ENG LIT A	59	AP Biology	194
			AP ENVIRN SCI A	54	AP Calculus AB	192
			AP MICRO ECO	64	AP Comp Sci Prin	184
			AP PHYSICS 1A	132	AP Seminar	194
			AP PSYCHOLOGY	53		
			AP US GOVT	78		
			AP US HISTORY A	97		
			AP WORLD HIST A	106		
			Grand Total	889		

TIER 1

School Name	Deficits	Number of core AP Courses	AP Potential at 60% for top 6 courses
Milby	67% score 1 on AP exam	486 STEM exams given since 2016 2% score 3+	New courses:
			AP BIOLOGY A 37
			AP CAL AB A 38
			AP ComSciPrin A 71
			AP ENG LANG A 55
			AP ENG LIT A 65
			AP ENVIRN SCI A 50
			Growth potential:
			AP HUMAN GEO A 37
			AP Biology 223
			AP MACRO ECO 103
			AP Comp Sci Prin 215
			AP US GOVT 28
			AP US HISTORY A 48
			AP WORLD HIST A 62
			Grand Total 594



Notes: _____

[illegible]

HOUSTON INDEPENDENT SCHOOL DISTRICT

AP EXPANSION INITIATIVE

HISD

College, Career &
Military Readiness

ASPIRE. PREPARE. SUCCEED.