

MEMORANDUM

October 14, 2014

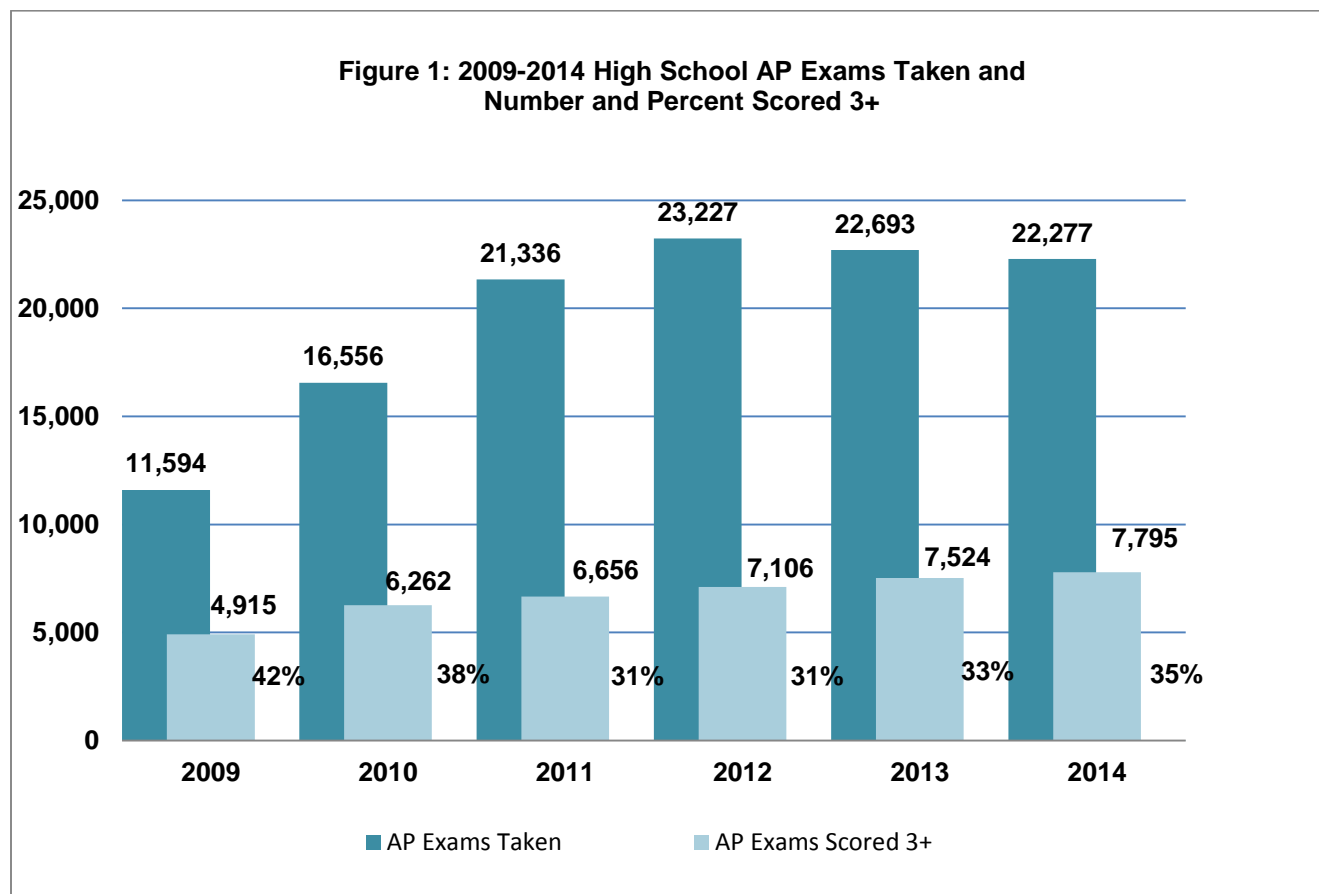
TO: Board Members

FROM: Terry B. Grier, Ed. D.
Superintendent of Schools

SUBJECT: **FINAL 2014 ADVANCED PLACEMENT (AP) RESULTS**

The results from the Advanced Placement (AP) examinations have been released by the College Board. The Advanced Placement Program provides high school students with the opportunity to take college-level courses and earn college credit. There are a total of 34 AP exams offered in 6 subject categories. HISD schools administered 34 AP exams in 2014. The AP grade scale ranges from 1 to 5, and a score of 3 or higher qualifies a student to earn advanced placement, college credit, or both.

The number of HISD students participating in AP exams at the high school level in 2014 was 12,837, a slight decrease of 129 students from the 12,966 students who took AP exams in 2013. The total number of exams taken by HISD high school students in 2014 was 22,277, a 1.8% decrease from 22,693 exams in 2013. The percentage of exams scored at a 3 or higher in 2014 increased to 35% from 33% in 2013. **Figure 1**, presents the six-year trend for the number of AP exams taken by HISD students and the number and percent scored at 3 or higher.



Key Findings

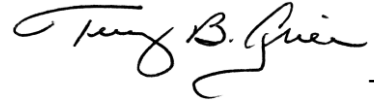
- Student participation in AP courses decreased from 36.1% in 2013 to 33.7% in 2014 in the district.
- The number of AP exam takers decreased by 1% from 12,966 in 2013 to 12,837 in 2014.
- However, the number of AP testers in 2014 represents an increase of 125% compared to 2009 when 5,694 HISD students took AP exams.
- The number of AP exams taken decreased by 1.8% from 22,693 in 2013 to 22,277 in 2014. However, the number of exams taken in 2014 represents an increase of 92.1% compared to 2009 when HISD students took 11,594 AP exams.
- Despite the decreases in AP testers and the number of AP exams taken in 2014, 271 more students had AP exams scored at 3 or higher, reflecting an increase of 3.6% from 2013 to 2014.
- In 2014, 35% of all AP exams taken by HISD students in grades 9-12 had AP scores of 3 or higher compared to 33.2% in 2013.
- History and Social Sciences represented the dominant subject category among the six AP categories with 48% of all AP exams taken, followed by 22% in English. The performance in these two categories lags the performance in the remaining four categories in HISD; concerted efforts targeting these two AP subject areas could lead to dramatic improvement in the overall AP performance.
- The HISD graduate class of 2013 maintained a record high from 2012 with 38% having taken at least one AP exam compared to 33% in the nation. A gain of 4 percentage points compared to the class of 2011.
- The number of AP awards presented to HISD students increased by 37 to a new district record of 1,157 reflecting a 2.5% increase in 2014 compared to 2013 (building upon the 20.6% gain in AP awards in 2013 compared to 2012).
- Seventeen campuses earned more AP awards in 2014 than in 2013 including four campuses that increased the number of AP awards earned by double-digits.

Administrative Response

To increase enrollment in AP courses, which dropped from 36.1% in 2013 to 33.7% in 2014---as well as to increase the number of students taking AP exams, which also dropped from 2013 to 2014---the Innovative Curriculum and Instruction Department has facilitated the development of eight new AP courses. These courses offer extensive curriculum, online resources, pacing calendars, and brief formative assessments. Additionally, five of the eight new courses have been developed in the five subject areas in which HISD students have realized some of the lowest AP scores, as indicated by the AP data. These courses are as follows: AP English Literature/Composition, AP English Language/Composition, AP World History, AP US History, and AP US Government and Politics. In addition to providing substantive curriculum and resources, the District has also created ongoing PLCs in the eight new curriculum areas. The PLCs are co-facilitated by the District's master AP teachers, as identified by AP Potential data, and by the District's AP specialists. Campus-specific support is also provided to the District's high schools to ensure that individual teachers are trained in effective classroom instruction. To prepare students for rigorous AP classes, Pre-AP curriculum and best practices have been incorporated into the District's curriculum in core-content areas in both middle school and grades 9 and 10. To further support this work, the District contracted with the National Math and Science Institute (NMSI) in March and April of 2014 to offer Saturday tutorials to students in ten District high schools. In August 2014 pre-service, College Board consultants also worked with AP teachers to review course content and to address issues of rigor and student engagement.

Attached is the complete report including an analysis of district-wide results as well as for all HISD schools that had participating students. Data presented include AP course enrollment, AP course completion, and AP exam participation and performance.

Should you have further questions, please contact my office or Carla Stevens in the Department of Research and Accountability at 713-556-6700.



TBG

Attachments

cc: Superintendent's Direct Reports
Chief School Officers
School Support Officers
Lance Menster
Annie Wolfe
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RESEARCH

Educational Program Report

ADVANCED PLACEMENT (AP)
REPORT 2013 – 2014



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ADVANCED PLACEMENT 2013–2014

Executive Summary

The Advanced Placement (AP) program represents a critical element in HISD's efforts to inject rigor into the high school classrooms. Since 2009, the AP course offerings in HISD have been vastly expanded, with more campuses offering a wider selection of AP courses that exposes a larger percentage of the high school population to academic rigor. Dramatically more HISD students are taking AP courses, completing them, taking more AP exams, earning AP exam scores of at least a 3, and receiving AP awards at a record pace.⁷

Highlights of AP in 2013-2014

- Student participation in AP courses decreased from 36.1% in 2013 to 33.7% in 2014 in the district.
- The number of AP exam takers decreased by 1% from 12,966 in 2013 to 12,837 in 2014.
- However, the number of AP testers in 2014 represents an increase of 125% compared to 2009 when 5,694 HISD students took AP exams.
- The number of AP exams taken decreased by 1.8% from 22,693 in 2013 to 22,277 in 2014. However, the number of exams taken in 2014 represents an increase of 92.1% compared to 2009 when HISD students took 11,594 AP exams.
- Despite the decreases in AP testers and the number of AP exams taken in 2014, 271 more students had AP exams scored at 3 or higher, reflecting an increase of 3.6% from 2013 to 2014.
- In 2014, 35% of all AP exams taken by HISD students in grades 9-12 had AP scores of 3 or higher compared to 33.2% in 2013.
- History and Social Sciences represented the dominant subject category among the six AP categories with 48% of all AP exams taken, followed by 22% in English. The performance in these two categories lags the performance in the remaining four categories in HISD; concerted efforts targeting these two AP subject areas could lead to dramatic improvement in the overall AP performance.
- The HISD graduate class of 2013 maintained a record high from 2012 with 38% having taken at least one AP exam compared to 33% in the nation. A gain of 4 percentage points compared to the class of 2011.
- The number of AP awards presented to HISD students increased by 37 to a new district record of 1,157 reflecting a 2.5% increase in 2014 compared to 2013 (building upon the 20.6% gain in AP awards in 2013 compared to 2012).
- Seventeen campuses earned more AP awards in 2014 than in 2013 including four campuses that increased the number of AP awards earned by double-digits.

Introduction

The College Board's Advanced Placement (AP) Program provides participating high school students with the opportunity to take college-level courses and earn college credit, advanced placement, or both. A possible 34 examinations in Arts, English, History and Social Science, Math and Computer Science, Sciences, and World Languages and Cultures are administered in May at participating schools (**Appendix A-1**). Ninety percent of colleges and universities grant credit, placement, or both to students receiving a qualifying score (usually 3 or higher on a scale of 1 to 5) on an AP exam.

Studies show that students who take AP courses and exams are more likely to succeed in college. Families may also experience financial benefits if their child receives advanced placement, college credit or both. Other benefits afforded to students include opportunities that lead to scholarships or recognition. The Siemens Awards for Advanced Placement is a scholarship with an award ranging from \$2,000 to \$5,000 given to two students (one male and one female) from each of the 50 states. The AP Program recognizes high school students who have demonstrated outstanding college-level achievement through AP courses and exams with the AP Scholar Awards (**Appendix A-2**). Although there is no monetary award, each award-winning student receives a certificate, and the award is acknowledged on any AP score report that is sent to colleges after the award has been conferred. In addition, teachers involved in the AP program benefit from professional development opportunities such as workshops and Summer Institutes (College Board, AP Central, 2008g).

For the 2013-2014 school year, all courses labeled as "AP" by HISD were authorized through the College Board AP Course Audit process. This audit process will ensure that quality courses meeting "AP" requirements are being offered, and that colleges and universities have a venue to review authorized courses offered by secondary schools (College Board, AP Central, 2008f).

Administration

The Educational Testing Services (ETS) mails out the AP exams along with other exam-related materials to participating schools in April or early May. The AP exams are administered each year in May over a two-week period. Once testing is completed, all AP exams are returned to ETS.

Scoring

The AP score in each exam is a weighted combination of scores on the multiple-choice section and on the free-response section. The final score is reported on a 5-point scale as follows:

- 5 = extremely well qualified
- 4 = well qualified
- 3 = qualified
- 2 = possibly qualified
- 1 = no recommendation

"Qualified" means that the student has demonstrated the capability of doing introductory-level coursework in a particular subject at college. Many colleges and universities grant credit and placement for scores of 3, 4 or 5; however, each college decides which scores it will accept.

The multiple-choice section is scored by computer. Each answer sheet is scanned and the total number of correct responses equals the multiple-choice score. The free-response section (essays

and open-ended questions) is scored at the annual AP Reading held during the first two weeks in June. Specially appointed college professors and experienced AP teachers score this section of the exam. The total scores from the free-response section and the multiple-choice section are combined to form a composite score. These composite scores are then translated into the 5-point scale using statistical processes designed to ensure that a 3 this year reflects the same level of achievement as a 3 last year.

Methods

Data Limitations

The College Board receives AP data from the Educational Testing Service (ETS). It is important to understand that the extracts are made from a “live” database that changes from one day to the next as scoring and adjustments to individual student records progresses in the months following the examination administration. Therefore, discrepancies may exist between the three sources of data that are used for AP exam reporting purposes, namely the College Board Reports (hard copy), the AP Online Score Reports, and the College Board (electronic) data file based on the time of the data extract. AP data for prior years were extracted from the most recent, updated files available at the time of the present report, and data for the current school year were extracted from the July 31, 2014 electronic files.

To provide disaggregated student level demographic information, the College Board AP electronic databases were matched to the Public Education Information Management System (PEIMS) database, and the Chancery end-of-year (EOY) data files. Since the PEIMS database reflects a snapshot taken on the last Friday in October, those students who were not present would not be included in the database. Students who were identified as enrolled in AP courses were required to be active students as of the EOY database and to have completed the course with a final semester grade or final grade in both the fall and spring semesters of a full-year course.

Participants

The longitudinal performance in AP exams during 2007–2014 along with demographic information supplied by students was reported to HISD for each participating campus by the College Board via printed reports and an electronic database. The 2014 global scores for test performance by subject were extracted from the 2014 College Board Report. These data, together with enrollment data from PEIMS and Chancery, were analyzed. State-level data, including the number of AP subject tests taken along with the percentage of scores that were 3 or above, were extracted from the 2013-2014 College Board Reports. Participation rates for juniors and seniors were calculated by dividing the number of students tested by the PEIMS snapshot of fall enrollment for the same group. Participation rates for juniors and seniors were calculated across the district and by school.

The number of students eligible to complete AP courses consists of those enrolled in both semesters of a two-semester course as per the Chancery EOY database and/or those enrolled in a one-semester course. Completion percentages are based on the number of students eligible to complete and the number completing an AP course.

Course completion was determined by counting those students who received a semester average grade of 70 or higher for both semesters of a two-semester course or receiving a 70 or higher for a one-semester course. Once this number was computed, it was divided by the total number of students who were eligible to complete an AP course.

Mean test scores by gender, race/ethnicity, and economic status for AP subjects were analyzed by comparing mean scores. To determine the percentage of students who scored 3 or above on AP subject tests by race/ethnicity, the total number of tests scoring a 3 or higher was divided by the total number of tests taken for each ethnic category.

Data Collection and Analysis

The College Board reported test performance, along with demographic information supplied by the students to HISD. These data included results for all HISD schools that had participating students. These data, together with enrollment data from the Public Education Information Management System (PEIMS) database, were analyzed. Analyses were conducted using the aggregated data by grade, race/ethnicity, and gender. Results were analyzed district-wide and by campus level.

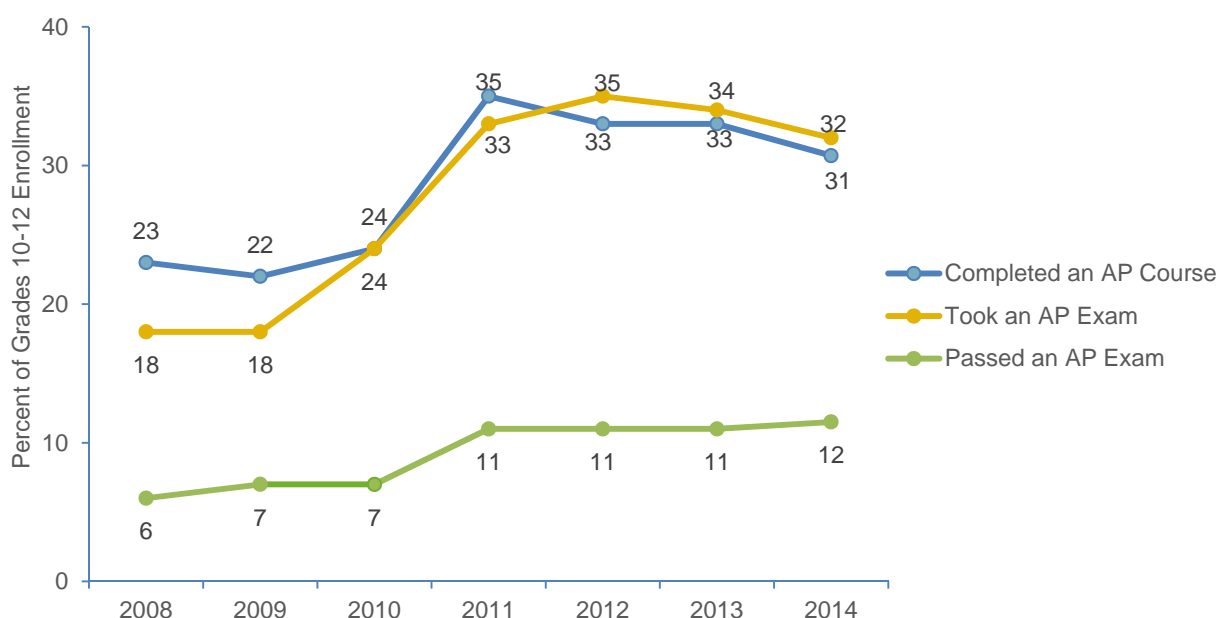
Results

District-wide Participation

The total number of exams taken by HISD students decreased from 22,693 in 2013 to 22,277 in 2014, down by 1.8%, or 416 exams. The percent of exams scored at a 3 or higher in 2014 increased to 35 percent from 33.2 percent in 2013.

Figure 1 shows the percent of students in grades 10–12 who completed at least one AP course, the percent who took at least one AP exam, and the percent who passed at least one AP exam with a score of 3 or higher from 2008 to 2014. Percentages are based on grades 10–12 enrollment and reflect an unduplicated count of students.

Figure 1. AP Participation and Performance in HISD: 2008-2014



Note: Completion of an AP course is defined as receiving a passing grade at the end of the course.

- The percentage of students in grades 10 through 12 who took at least one AP exam increased from 18 percent in 2007–2008 to 32 percent in 2013–2014, an increase of 14 percentage points. However, there is a decline of 2 percentage points in 2014 compared to 2013.
- The percentage of HISD students in grades 10 through 12 who completed at least one AP course increased from 23 percent in 2007–2008 to 31 percent in 2013–2014, an increase of 8 percentage points.
- Twelve percent of HISD students enrolled in grades 10-12 passed at least one AP exam with a score of 3 or higher in 2013–2014, up from 6 percent in the 2007–2008 school year, and increased by 1 percentage point from 2012-2013.

AP Course Offerings

Figure 2 shows the number of AP courses offered in HISD schools in 2013 and 2014, and the change in the number of courses from 2013 to 2014.

Figure 2. The Number of AP Courses Offered by Campus*: 2013 and 2014

Ranked by the number of courses in 2014

Campus	2013	2014	Diff. 2014-2013
Westside	26	29	3
Carnegie Vanguard	25	24	-1
Bellaire	21	23	2
Reagan	20	22	2
Eastwood Academy	18	20	2
Davis	15	18	3
Sharpstown International	15	17	2
Madison	14	16	2
Houston MSTC	14	16	2
Waltrip	14	16	2
DeBakey	15	16	1
Furr	13	15	2
HSLECJ	14	15	1
Lee	15	15	0
Milby	15	15	0
Westbury	16	15	-
E-STEM SE	11	14	3
Scarborough	13	14	1
Austin	17	14	-3
Sharpstown	14	13	-1
Chavez	11	12	1
Jordan	13	12	-1
HSPVA	11	11	0
Sterling	11	11	0
Washington	13	10	-3
E-STEM SW	2	9	7
East Early College	6	8	2
North Houston Early College	7	8	1
Hou. Acad. for Int'l Stud.	8	8	0
Wheatley	8	8	0
Kashmere	9	8	-1
Jones	5	7	2
Challenge	6	7	1
Mount Carmel Academy	6	7	1
Worthing	6	7	1
North Forest	-	7	-
Yates	10	6	-4
Beechnut Academy	0	5	5
Lamar	4	4	0
AVA/Twilight Schools	0	4	4
YWCPA	0	4	4
Community Services	0	3	3
Reach Charter School	0	3	3
YMCPA	0	3	3
Energy Institute	-	2	-
South Early College	-	2	-
Long Academy	1	1	0
Empowerment	4	-	-
Houston ISD	31	34	3

*Only campuses with at least one AP course offered

Figure 2 indicates the following:

- In 2013-2014, 47 HISD schools offered at least one AP course.
- The total number of AP courses offered in HISD schools increased from 31 in 2012-2013 to 34 in 2013-2014.
- The median number of AP courses offered in 2013-2014 was 11, a decrease from 2012-2013 in which median was 13.
- Of the 47 schools that offered AP courses in 2014, 28 schools increased the number of AP courses offered from 2013, 8 schools decreased AP course offerings, 8 schools had no change, and 3 schools were new to the district in 2013-2014.
- The largest increase in AP courses offered in 2013-2014 compared to 2012-2013 was at E-STEM SW (+7 courses), then Westside, Davis, and E-STEM SE (+3 courses).
- The largest decrease in AP courses offered in 2013-2014 compared to 2012-2013 was at Yates (-4 courses), then Washington and Austin (-3 courses).

Participation and Performance by AP Exam Category

Figure 3 shows the number of AP exams taken by the AP exam categories shown in **Appendix A**, and the percent of exams in these subject categories with a score of 3 or higher.

Figure 3. The Number of AP Exams Taken and Performance by Exam Category (2014)

AP Exam Category	AP Exams Taken, N	Exams Taken, % of Total	AP Scores ≥ 3 , N	AP Scores ≥ 3 , %
History and Social Science	10,684	48.0	2,884	27.0
English	4,929	22.1	1,224	24.8
World Languages and Culture	2,360	10.6	1,775	75.2
Sciences	2,228	10.0	859	38.6
Math & Computer Science	1,729	7.8	915	52.9
Arts	347	1.6	138	39.8
Total	22,277	100.0	7,795	35.0

Figure 3 indicates the following:

- The AP exams taken in History and Social Sciences represented the largest category (48%) followed by English (22.1%).
- History and Social Sciences and English also had the lowest success rates among all categories, 27% and 24.8% respectively.
- World languages and Culture had the highest performance with a 75.2% of AP scores at 3 or higher, followed by Mathematics and Computer Science at 52.9%. These two categories, however, collectively accounted for 18.4% of all AP exams taken.

Participation by Student Group

Presented in **Table 1** are the number of HISD students in 2013-2014 who took an AP exam, the number of exams taken, and the number of exams scored 3 or higher for grades 9–12 by race/ethnicity and economic status. The number of exam takers reflects an unduplicated count of students who took an exam, and the number of exams taken is a duplicated count of exams. In other words, a given student is counted once and all the exams that student has taken are counted as well.

Table 1: 2013 and 2014 AP Participation and Performance by Student Group in Grades 9-12*

Student Groups	Exam Takers, N		Exam Taken, N		AP Scores ≥ 3 , N		AP Scores ≥ 3 , %	
	2013	2014	2013	2014	2013	2014	2013	2014
African American	2,383	2,400	3,779	3,671	511	488	13.5	13.3
American Indian	43	34	86	53	22	12	25.6	22.6
Asian	933	948	2,415	2,529	1,665	1,857	68.9	73.4
Hispanic	7,187	7,182	11,920	11,837	2,872	3,090	24.1	26.1
White	1,803	1,689	3,534	3,293	2,172	2,068	61.5	62.8
No Response	260	264	339	351	48	78	14.2	22.2
Other	357	320	620	543	234	202	37.7	37.2
Female	7,246	7,079	12,528	12,167	3,966	4,077	31.7	33.5
Male	5,720	5,758	10,165	10,110	3,558	3,718	35.0	36.8
Econ Disadv.	8,465	8,436	13,744	13,809	2,882	3,246	21.0	23.5
Non-Econ Disadv.	4,475	4,274	8,910	8,364	4,631	4,516	52.0	54.0
Unknown Econ. Status	26	70	39	104	11	33	28.2	31.7
Total	12,966	12,837	22,693	22,277	7,524	7,795	33.2	35.0

*includes students with grade level not indicated

The data in **Table 1** show the following:

- Hispanic students comprised the largest racial/ethnic group of students who took an AP exam in grades 9-12 with 56% of all exam takers in 2013-2014 a slight increase from 55.4% in 2012-2013. Hispanic students took 53.1% of all AP exams administered in 2013-2014 and increase from 52.5% in 2012-2013. Twenty-six percent of the exams taken by Hispanic students were scored at 3 or higher in 2013-2014, an increase of 2 percentage points compared to 2012-2013.
- African American students represented the second largest group of AP exam takers in grades 9-12, accounting for 18.7% of all AP testers in 2013-2014, a slight decrease from 18.4 in 2012-2013. African American students took 16.5% of all AP exams administered in 2013-2014, a slight decrease from 16.7 in 2012-2013. In 2013-2014, 13.3% of the exams taken by the African American students were scored at 3 or higher, a decrease of 0.2 percentage points compared to 2012-2013.
- White students accounted for 13.2% of all AP testers in 2013-2014, a decrease of 0.7 percentage points compared to 2012-2013. White students took 14.8% of all AP exams taken in 2013-2014, a decrease of 0.8 percentage points compared to 2012-2013. Sixty-three percent of the exams taken by White students were scored at 3 or higher in 2013-2014, an increase of 1.3 percentage points compared to 2012-2013.
- Asian students accounted for 7.4% of all AP testers in 2013-2014, an increase of 0.2 percentage points compared to 2012-2013. Asian students took 11.7% of all AP exams taken in 2013-2014, an increase of 0.6 percentage points compared to 2012-2013. Seventy-three percent of the exams taken by Asian students were scored at 3 or higher in 2013-2014, an increase of 4.5 percentage points compared to 2012-2013.

- Female students accounted for 55.1% of all AP testers in 2013-2014, a decrease of 0.7 percentage points compared to 2012-2013. Female students took 54.6% of all AP exams taken in 2013-2014, a decrease of 0.6 percentage points compared to 2012-2013. Thirty-four percent of the exams taken by female students were scored at 3 or higher in 2013-2014, an increase of 1.8 percentage points compared to 2012-2013. Thirty-seven percent of the exams taken by male students were scored at 3 or higher in 2013-2014, an increase of 1.8 percentage points compared to 2012-2013.
- Economically disadvantaged students accounted for 65.7% of all AP testers in 2013-2014, an increase of 0.4 percentage points compared to 2012-2013. Economically disadvantaged students took 62% of all AP exams taken in 2013-2014, an increase of 1.4 percentage points compared to 2012-2013. Twenty-four percent of the exams taken by economically disadvantaged students were scored at 3 or higher in 2013-2014, an increase of 2.5 percentage points compared to 2012-2013. Fifty-four percent of the exams taken by non-economically disadvantaged students were scored at 3 or higher in 2013-2014, an increase of 2 percentage points compared to 2012-2013.

Trends in AP Exams Taken

The number of AP exams taken at district high schools and the number and percent scored at 3 or higher are shown in **Figure 4**.

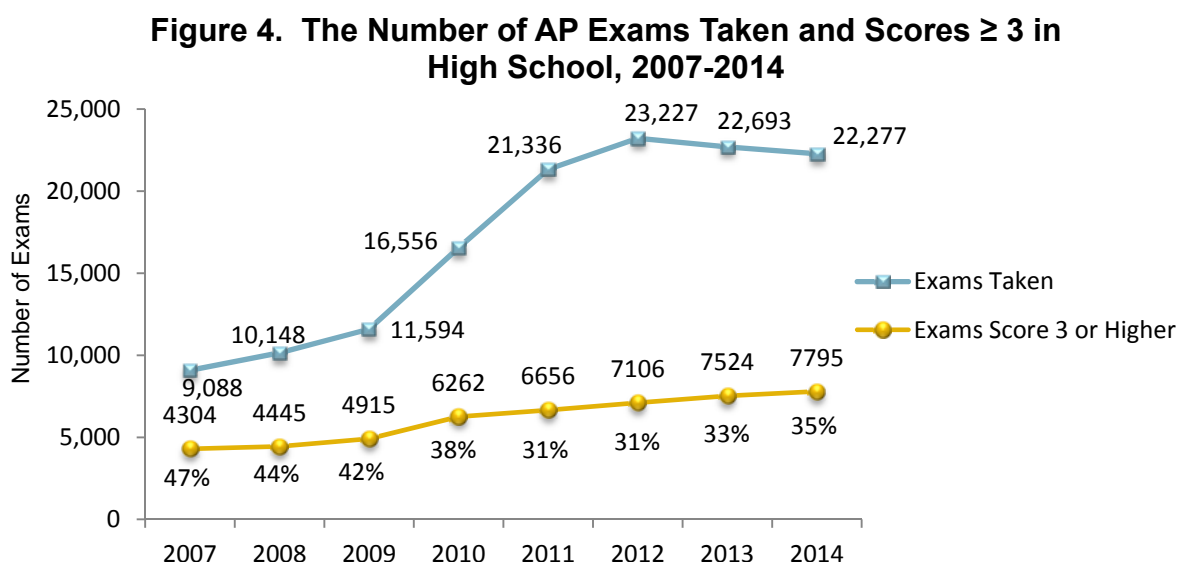


Figure 4 indicates the following:

- The number of AP exams taken by high-school students increased by 13,189 (145.1%), from 9,088 in 2007 to 22,277 in 2014, although there is a decline of 416 (2%) exams in 2014 compared to 2013.
- The number of exams scored at a 3 or higher increased by 81.1% from 4,304 in 2007 to a district high of 7,795 in 2014. However, the percent of AP exams with a score of 3 or higher decreased from 47% in 2007 to 35% in 2014. Note there is an increase of 2 percentage points, from 33% in 2013 to 35% in 2014 for AP exams with a score of 3 or higher.

District Summary by Student Group

AP course completion by student groups including race/ethnicity, gender, economic status, and LEP status were examined for 2013 and 2014. The number and percent of HISD students in grades 10–12 completing AP courses are presented by student group in **Table 2**. This table reflects an unduplicated count of students for courses.

Table 2: 2013 and 2014 District Summary of AP Course Enrollment and Completion by Demographic Group, Grades 10–12 (Unduplicated Count)

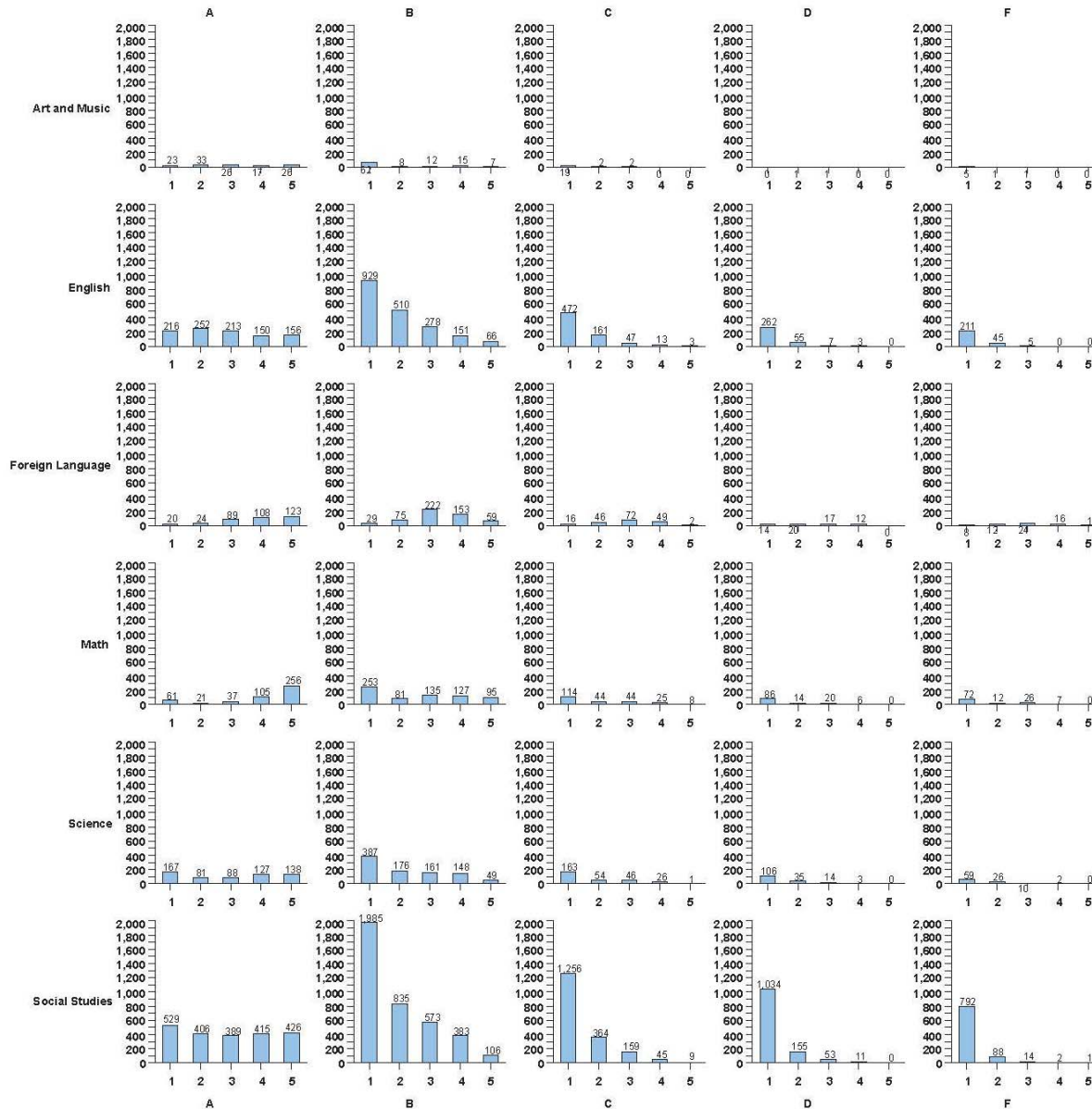
2014					
Student Group	Total Gr 10-12 Enrollment	AP Course Enrollment		AP Course Completion	
		Total	Percent	Total	Percent
African American	8,666	2,249	26.0	2,020	89.8
American Indian	86	20	23.3	19	95.0
Asian	1,344	811	60.3	799	98.5
Hispanic	19,392	6,492	33.5	5,819	89.6
Pac. Is./HI	57	24	42.1	23	95.8
White	3,215	1,404	43.7	1,353	96.4
2 or More	230	106	46.1	99	93.4
Other	3				
Econ. Disadv.	24,134	7,520	31.2	6,742	89.7
Non-Econ. Disadv.	8,859	3,586	40.5	3,390	94.5
LEP	2,619	236	9.0	199	84.3
Non-LEP	30,374	10,870	35.8	9,933	91.4
Female	16,519	6,109	37.0	5,679	93.0
Male	16,474	4,997	30.3	4,453	89.1
Total	32,993	11,106	33.7	10,132	91.2
2013					
African American	8,293	2,468	29.8	2,234	90.5
American Indian	88	28	31.8	26	92.9
Asian	1,299	807	62.1	794	98.4
Hispanic	18,383	6,557	35.7	5,862	89.4
Pac. Is./HI	72	36	50	35	97.2
White	2,986	1,506	50.4	1,446	96
2 or More	231	127	55	119	93.7
Other	544				
Econ. Disadv.	23,284	7,756	33.3	6,963	89.8
Non-Econ. Disadv.	8,612	3,773	43.8	3,553	94.2
LEP	2,659	281	10.6	247	87.9
Non-LEP	28,693	11,248	39.2	10,269	91.3
No LEP Info.	544				
Female	16,122	6,404	39.7	5,947	92.9
Male	15,774	5,125	32.5	4,569	89.2
Total	31,896	11,529	36.1	10,516	91.2

The data in **Table 2** indicates the following:

- In 2014, 33.7% of HISD students in grades 10-12 were enrolled in at least one AP course, reflecting a decrease of 2.4 percentage points compared to 2013. Of the students enrolled in an AP course in 2014, 91.2% completed at least one AP course; this reflects no change from 2013.
- Although Hispanic and African American students collectively made up 85% of enrollment for grades 10-12 in 2014, only 31.2% were enrolled in AP courses. By contrast, White and Asian students collectively made up only 13.8% of the total enrollment for grades 10-12 in 2014, yet 48.6% were enrolled in at least one AP course.
- While enrollment across all ethnic groups increased in 2014 for grades 10-12, (except for very small declines among American Indian, Pacific Islander/Native Hawaiian, and students of two or more racial ethnicities) the AP course participation rate decreased from 36.1% in 2013 to 33.7% in 2014. The participation rate in the AP courses decreased for all race/ethnic groups in 2014 compared to 2013, except for Asian American students in which AP course participation increased by 4%.
- The rate for completing at least one AP course remained constant at 91.2% for all students. The completion rates for African American, Pacific Islander/Native Hawaiian, and students of two or more racial ethnicities decreased, while the completion rates for all other race/ethnic groups increased from 2013 to 2014.

Figure 5 shows the distribution of AP exam scores by the grades in AP courses categorized by the six AP subject areas. Included are all AP exams that were taken by students who received a grade in the AP course. **Appendix A** includes a full list of AP courses for each subject area.

Figure 5.
Distribution of AP Exam Scores by Course Grade: Number of Students with Stated Course Grade



Subject	Exam Grade	Course Grade					
		A	B	C	D	F	All
Art and Music	1	23	62	19	0	5	109
	2	33	8	2	1	1	45
	3	26	12	2	1	1	42
	4	17	15	0	0	0	32
	5	26	7	0	0	0	33
	All	125	104	23	2	7	261
English	1	216	929	472	262	211	2,090
	2	252	510	161	55	45	1,023
	3	213	278	47	7	5	550
	4	150	151	13	3	0	317
	5	156	66	3	0	0	225
	All	987	1,934	696	327	261	4,205
Foreign Language	1	20	29	16	14	8	87
	2	24	75	46	20	12	177
	3	89	222	72	17	24	424
	4	108	153	49	12	16	338
	5	123	59	2	0	1	185
	All	364	538	185	63	61	1,211
Math	1	61	253	114	86	72	586
	2	21	81	44	14	12	172
	3	37	135	44	20	26	262
	4	105	127	25	6	7	270
	5	256	95	8	0	0	359
	All	480	691	235	126	117	1,649
Science	1	167	387	163	106	59	882
	2	81	176	54	35	26	372
	3	88	161	46	14	10	319
	4	127	148	26	3	2	306
	5	138	49	1	0	0	188
	All	601	921	290	158	97	2,067
Social Studies	1	529	1,985	1,256	1,034	792	5,596
	2	405	835	364	155	88	1,848
	3	389	573	159	53	14	1,188
	4	415	383	45	11	2	856
	5	426	106	9	0	1	542
	All	2,165	3,882	1,833	1,253	897	10,030
All Subjects	1	1,016	3,645	2,040	1,502	1,147	9,350
	2	817	1,685	671	280	184	3,637
	3	842	1,381	370	112	80	2,785
	4	922	977	158	35	27	2,119
	5	1,125	382	23	0	2	1,532
	All	4,722	8,070	3,262	1,929	1,440	19,423

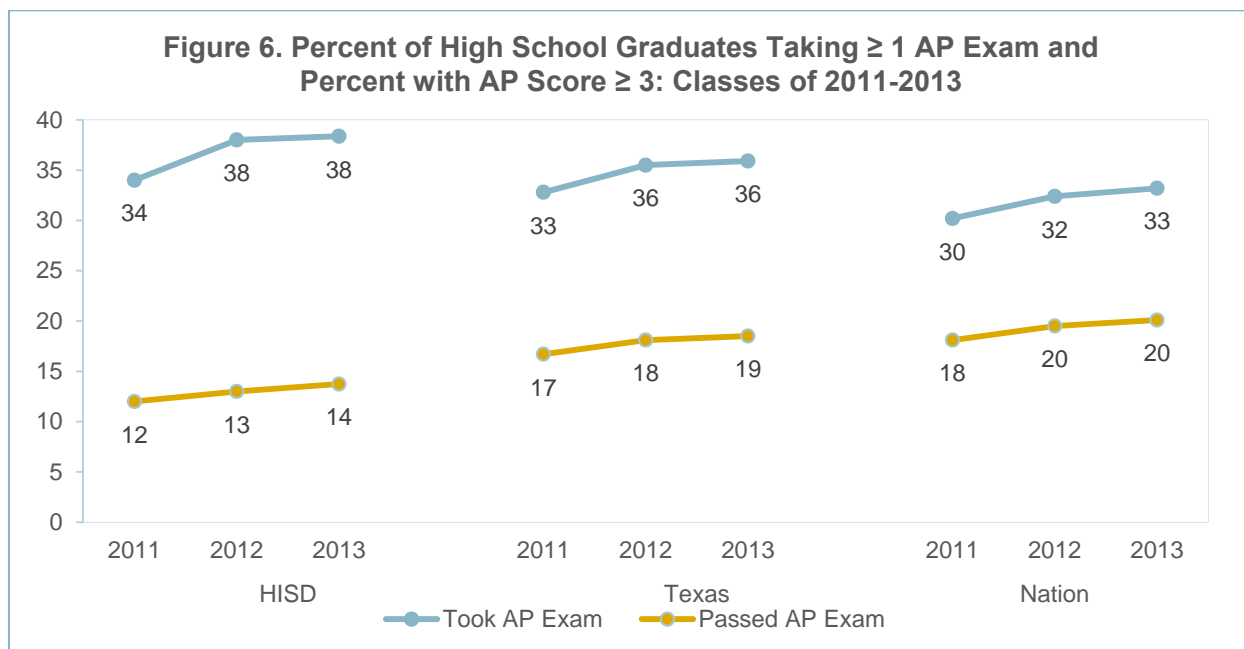
Figure 5 indicates the following:

- Of the 22,277 AP exams taken in 2014, 19,423 or 87.2% were associated with a corresponding course for which a grade was received.
- Within the 19,423 exams taken, for which a course grade was received, 33.1% had an exam score of 3 or higher, and 83% received a course grade of C or higher.
- Seventy-two percent of all AP exams taken by students with a score of 1 had an associated course grade of C or higher, and 87.2% of all AP exams taken by students with a score of 2 have a course grade of C or higher.
- Thirty-nine percent of the students who earned an A in an AP course also earned an AP exam score of 1 or 2; 66% of the students who earned a B in an AP course also earned a 1 or 2 on the associated AP exam; and 83% of the students who earned an AP course grade of C also earned a 1 or 2 in the associated AP exam.

Comparison with State and Nation

Participation and performance for the classes of 2011-2013 in the district, state, and nation are presented in **Figure 6**. The College Board provides data for graduating classes for the state and the nation in its annual *AP Report to the Nation* that is released in February of each year.

Figure 6. Percent of High School Graduates Taking ≥ 1 AP Exam and Percent with AP Score ≥ 3 : Classes of 2011-2013



Note: Source for 2011- 2013 state and national data: *AP Report to the Nation*, 8th, 9th, and 10th editions, the College Board. Source 2011 HISD data derived from August 23, 2011 and July 30, 2012 AP electronic file; 2011-2012 and 2012-2013 PEIMS Graduates files (2012 and 2013 Fall submissions).

Figure 6 indicates the following:

- Thirty-eight percent of 2013 HISD graduates took an AP Exam, exceeding the state by 2 percentage points and the nation by 5 percentage points.
- The percentage of HISD graduates who took an AP exam increased by four percentage points (34% to 38%) from 2011 to 2013, exceeding the increases in both the state and the nation, and participation rates in both the state and nation.

- The percentage of graduates who passed an AP exam increased by 2 percentage points (from 12% to 14%) from 2011-2013, the same as the state and nation.
- For the classes of 2011-2013, HISD trailed Texas and the nation in the percentage of graduates who passed an AP exam with a score of 3 or higher.

Figure 7 shows a comparison of the trends in the percent of AP exams taken with a score of 3 or higher in HISD, Texas, and the nation in the period 2010-2014.

**Figure 7. Percent of AP Exams with Scores ≥ 3 (2010-2014):
HISD, Texas, and Nation**

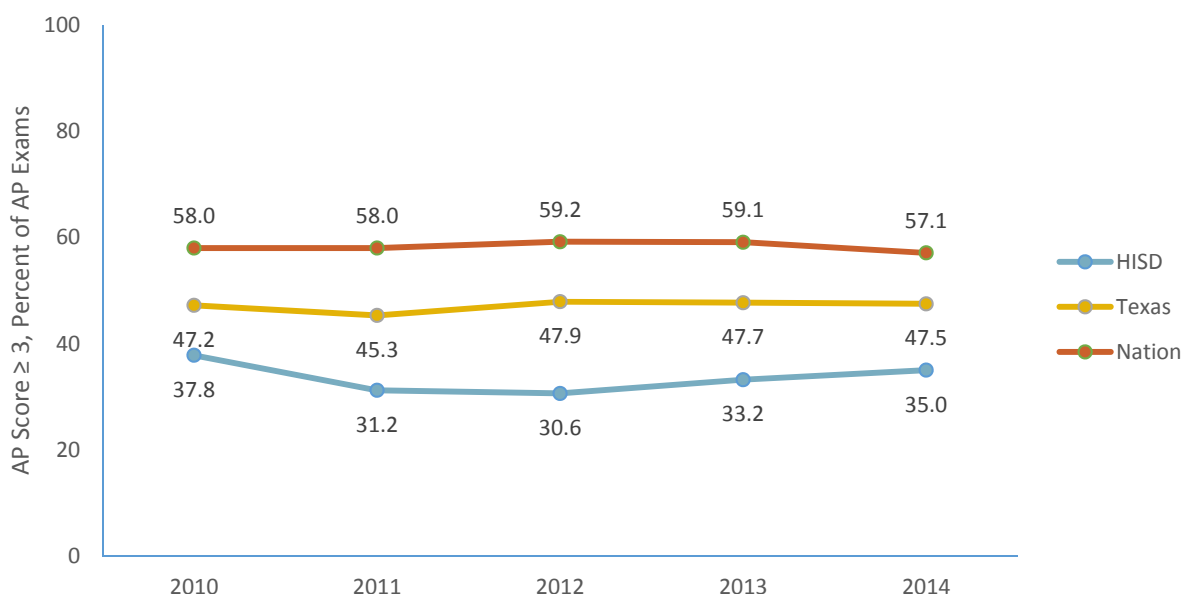


Figure 7 indicates the following:

- The AP exams scored at 3 or higher in HISD declined from 37.8% in 2010 to a 35% in 2014. There was, however, a 1.8% increase from 2013 to 2014. The AP performance in the state showed little variability during the same period. However, there was a decline in the AP exams scores at 3 or higher in the nation from 58% in 2010 to 57.1% in 2014 and a 2% decrease from 59.1% in 2013 to 57.1% in 2014.

Figure 8a shows the number of AP exams taken in HISD by subject, and the percent of exams with scores at or above 3 in HISD and the nation ranked by performance in HISD. **Figure 8b** shows the same data ranked by the number of exams taken in HISD by subject.

Figure 8a. The Number of AP Exams Taken and Percent of AP Scores ≥ 3 by Subject: HISD and Nation (2014)

Ranked by HISD performance

AP Exam	HISD Exams Taken, N	HISD, % ≥ 3	Nation, % ≥ 3	HISD-Nation
Italian Language & Culture	23	100	69.6	30.4
Chinese Language & Culture	57	94.7	94.5	0.2
Calculus BC	232	81.0	81.1	-0.1
French Language & Culture	49	79.6	78.0	1.6
Art: Studio Art-2-D Design Portfolio	51	78.4	78.5	-0.1
Spanish Language & Culture	1,878	76.8	89.3	-12.5
German Language & Culture	9	66.7	73.3	-6.6
Spanish Literature & Culture	318	61.6	74.5	-12.9
Psychology	406	60.3	65.5	-5.2
Computer Science A	166	57.8	61.2	-3.4
Latin: Vergil	21	57.1	65.8	-8.7
Statistics	581	53.0	59.6	-6.6
Biology	629	51.0	64.2	-13.2
Economics: Microeconomics	227	50.2	65.6	-15.4
Calculus AB	750	43.1	58.9	-15.8
Art: Studio Art-3-D Design Portfolio	12	41.7	67.5	-25.8
European History	85	41.2	59.5	-18.3
Japanese Language & Culture	5	40.0	75.9	-35.9
Chemistry	399	38.1	52.8	-14.7
Art History	114	36.8	59.6	-22.8
Physics C: Mechanics	167	34.1	76.7	-42.6
Government & Politics: Comparative	48	33.3	62.0	-28.7
Environmental Science	524	33.2	47.3	-14.1
Physics B	425	31.8	60.7	-28.9
Art: Studio Art-Drawing Portfolio	58	31.0	77.5	-46.5
Economics: Macroeconomics	1,247	31.0	57.8	-26.8
Music Theory	112	29.5	62.7	-33.2
English Literature & Composition	1,750	26.9	55.0	-28.1
Human Geography	1,208	24.4	52.0	-27.6
United States History	2,448	24.3	52.4	-28.1
World History	3,249	24.2	54.5	-30.3
Physics C: Electricity & Magnetism	84	23.8	70.8	-47.0
English Language & Composition	3,179	23.7	55.8	-32.1
Government & Politics: United States	1,766	23.3	50.7	-27.4
Total Exams Taken	22,277	35.0	57.1	-22.1

Figure 8b. The Number of AP Exams Taken and Percent of AP Scores by Subject ≥ 3 : HISD and Nation (2014)

Ranked by the number of AP exams taken in HISD

AP Exam	HISD Exams Taken, N	HISD, % ≥ 3	Nation, % ≥ 3	HISD-Nation
World History	3,249	24.2	54.5	-30.3
English Language & Composition	3,179	23.7	55.8	-32.1
United States History	2,448	24.3	52.4	-28.1
Spanish Language & Culture	1,878	76.8	89.3	-12.5
Government & Politics: United States	1,766	23.3	50.7	-27.4
English Literature & Composition	1,750	26.9	55.0	-28.1
Economics: Macroeconomics	1,247	31.0	57.8	-26.8
Human Geography	1,208	24.4	52.0	-27.6
Calculus AB	750	43.1	58.9	-15.8
Biology	629	51.0	64.2	-13.2
Statistics	581	53.0	59.6	-6.6
Environmental Science	524	33.2	47.3	-14.1
Physics B	425	31.8	60.7	-28.9
Psychology	406	60.3	65.5	-5.2
Chemistry	399	38.1	52.8	-14.7
Spanish Literature & Culture	318	61.6	74.5	-12.9
Calculus BC	232	81.0	81.1	-0.1
Economics: Microeconomics	227	50.2	65.6	-15.4
Physics C: Mechanics	167	34.1	76.7	-42.6
Computer Science A	166	57.8	61.2	-3.4
Art History	114	36.8	59.6	-22.8
Music Theory	112	29.5	62.7	-33.2
European History	85	41.2	59.5	-18.3
Physics C: Electricity & Magnetism	84	23.8	70.8	-47.0
Art: Studio Art-Drawing Portfolio	58	31.0	77.5	-46.5
Chinese Language & Culture	57	94.7	94.5	0.2
Art: Studio Art-2-D Design Portfolio	51	78.4	78.5	-0.1
French Language & Culture	49	79.6	78.0	1.6
Government & Politics: Comparative	48	33.3	62.0	-28.7
Italian Language & Culture	23	100	69.6	30.4
Latin: Vergil	21	57.1	65.8	-8.7
Art: Studio Art-3-D Design Portfolio	12	41.7	67.5	-25.8
German Language & Culture	9	66.7	73.3	-6.6
Japanese Language & Culture	5	40.0	75.9	-35.9
Total Exams Taken	22,277	35.0	57.1	-22.1

Figures 8a and 8b indicate the following based on the results in 2014:

- The number of AP exams taken in HISD ranged from a low of 5 in Japanese Language and Culture to 3,249 in World History.
- The percent of AP exams with a score of 3 or higher in HISD ranged from a low of 23.3% in U.S. Government and Politics to 100% in Italian Language and Culture.
- The top eight subjects by the number of AP exams taken (World History, English Language and Composition, U.S. History, Spanish Language, U.S. Government and Politics, English Literature and Composition, Macroeconomics, and Human Geography) accounted for 75.1% of the total number of AP exams taken. These subjects account for 72% of the overall gap across all subjects between HISD and the nation.

Student AP Course and Exam Participation and Performance by Campus

Figure 9a shows the number of AP exams taken and the percent of exams scored at 3 or higher in grades 9-12 for each campus in 2013 and 2014 sorted by performance. **Figure 9b** shows the same data sorted by the number of exams taken. All AP exams are represented in this figure, regardless of whether the student was enrolled in the AP course. **Appendix B** provides additional details for the number of AP exams taken and the corresponding performance by subject at each campus.

Figure 9a. The Number of AP Exams Taken and Percent Scores ≥ 3 by HISD Campus: 2013 and 2014**

Ranked by the AP Performance in 2014

School	2013		2014		Change, 2014 - 2013	
	Exams Taken, N	% Exams ≥ 3	Exams Taken, N	% Exams ≥ 3	Exams Taken, N	% Exams ≥ 3
DeBakey	1,003	92	955	91	-48	-1
HSPVA	640	70	585	83	-55	13
Bellaire	2,567	82	2,382	81	-185	-1
Carnegie	1,273	65	1,426	72	153	7
TCAH	0		37	51	37	
Westside	1,707	45	1,709	50	2	5
Eastwood	465	44	600	43	135	-1
Challenge	557	31	581	37	24	6
East ECHS	279	29	210	37	-69	8
Chavez	1,141	31	1,195	31	54	0
Austin	404	25	351	29	-53	4
Sharpstown	616	18	410	29	-206	11
Sharpstown Int'l	281	26	284	28	3	2
Milby	549	30	551	26	2	-4
Waltrip	636	20	600	23	-36	3
Lee	586	6	306	20	-280	14
Hou. Acad. For Int'l Stud.	311	20	231	17	-80	-3
Davis	620	16	666	16	46	0
North Houston ECHS	185	18	211	15	26	-3
Reagan	1,035	13	1,292	13	257	0
Lamar	1,731	16	1,649	12	-82	-4
Houston MSTC	1,022	12	974	12	-48	0
Westbury	957	11	983	12	26	1
Mt. Carmel	113	9	115	10	2	1
Madison	525	9	719	10	194	1
Washington	281	4	254	10	-27	6
South EC			30	10		
HSLECJ	737	10	688	9	-49	-1
Jordan	355	5	266	9	-89	4
YMCPA	0		74	8	74	
Scarborough	289	7	249	7	-40	0
Kashmere	115	1	155	7	40	6
Furr	373	1	314	7	-59	6
Yates	170	3	127	5	-43	2
Sterling	169	4	200	4	31	0
E-STEM SW	226	4	147	4	-79	0
Worthing	149	8	112	2	-37	-6
YWCPA	109	5	171	2	62	-3
Jones	120	3	134	2	14	-1
Wheatley	152	0	130	2	-22	2
E-STEM SE	192	2	128	1	-64	-1
North Forest			71	0		
Long Academy	3	*	0	*	-3	
CLC	1	*	0	*	-1	
Empowerment	49	2				
Hope Academy	0		1	*	1	
Energy Inst HS			4			
HISD	22,693	33	22,277	35	-416	2

* Masked: $n < 5$

**Bellaire and Lamar high schools offer the International Baccalaureate Program in addition to Advanced Placement.

Figure 9b. The Number of AP Exams Taken and Percent Scores ≥ 3 by HISD Campus: 2013 and 2014**

Ranked by the number of AP exams taken in 2014

School	2013		2014		Change, 2014 - 2013	
	Exams Taken, N	% Exams ≥ 3	Exams Taken, N	% Exams ≥ 3	Exams Taken, N	% Exams ≥ 3
Bellaire	2,567	82	2,382	81	-185	-1
Westside	1,707	45	1,709	50	2	5
Lamar	1,731	16	1,649	12	-82	-4
Carnegie	1,273	65	1,426	72	153	7
Reagan	1,035	13	1,292	13	257	0
Chavez	1,141	31	1,195	31	54	0
Westbury	957	11	983	12	26	1
Houston MSTC	1,022	12	974	12	-48	0
DeBakey	1,003	92	955	91	-48	-1
Madison	525	9	719	10	194	1
HSLECJ	737	10	688	9	-49	-1
Davis	620	16	666	16	46	0
Waltrip	636	20	600	23	-36	3
Eastwood	465	44	600	43	135	-1
HSPVA	640	70	585	83	-55	13
Challenge	557	31	581	37	24	6
Milby	549	30	551	26	2	-4
Sharpstown	616	18	410	29	-206	11
Austin	404	25	351	29	-53	4
Furr	373	1	314	7	-59	6
Lee	586	6	306	20	-280	14
Sharpstown Int'l	281	26	284	28	3	2
Jordan	355	5	266	9	-89	4
Washington	281	4	254	10	-27	6
Scarborough	289	7	249	7	-40	0
Hou. Acad. For Int'l Stud.	311	20	231	17	-80	-3
North Houston ECHS	185	18	211	15	26	-3
East ECHS	279	29	210	37	-69	8
Sterling	169	4	200	4	31	0
YWCPA	109	5	171	2	62	-3
Kashmere	115	1	155	7	40	6
E-STEM SW	226	4	147	4	-79	0
Jones	120	3	134	2	14	-1
Wheatley	152	0	130	2	-22	2
E-STEM SE	192	2	128	1	-64	-1
Yates	170	3	127	5	-43	2
Mt. Carmel	113	9	115	10	2	1
Worthing	149	8	112	2	-37	-6
YMCPA	0		74	8	74	
North Forest			71	0		
TCAH	0		37	51	37	
South EC			30	10		
Energy Inst HS			4			
Hope Academy	0		1	*	1	
Long Academy	3	*	0	*	-3	
CLC	1	*	0	*	-1	
Empowerment	49	2				
HISD	22,693	33	22,277	35	-416	2

*Masked: $n < 5$

**Bellaire and Lamar high schools offer the International Baccalaureate Program in addition to Advanced Placement.

Figures 9a and 9b indicate the following:

- The number of AP exams taken in 2014 ranged from 1 at Hope Academy to 2,382 at Bellaire HS, with a median of 275 exams taken across 44 campuses.
- The percent of AP exams with a score of 3 or higher in 2014 ranged from 0% at North Forest HS to 91% at DeBakey HS, with a median performance of 12%.
- The following eight campuses accounted for 52.1% of all AP exams taken in HISD in 2014: Bellaire HS, Westside HS, Lamar HS, Carnegie HS, Reagan HS, Chavez HS, Westbury HS, and Houston MSTC.
- For campuses with two years of data, 20 campuses increased the number of AP exams taken, and 23 campuses decreased the number of AP exams taken in 2014 compared to 2013.
- For campuses with two years of data, AP performance improved at 19 campuses, remained the same at 7 campuses, and declined at 12 campuses in 2014 compared to 2013.

Figure 10 shows the percent of courses completed by HISD students in grades 9-12 who were enrolled in AP courses and the percent of exams scored at 3 or higher. The percent of AP exams scored at a 3 or higher in **Figure 10** is based on the number of students who were enrolled in an AP course and took the corresponding AP exam. Additional details are provided in **Appendix C** that shows the number of courses taken and completed by HISD students in grades 9-12 at each campus as well as the number of exams taken by students enrolled in the AP courses and the number and percent of these exams that scored 3 or higher.

Figure 10. Percent of AP Courses Completed and Percent of Corresponding AP Exam Scores ≥ 3 by Campus: Grades 9-12 (2013-2014)**

Ranked by percent of AP courses completed

School	AP Course Completed, %	AP Score ≥ 3 , %
HSPVA	100.0	83.1
Mount Carmel Academy	100.0	10.4
Hope Academy	100.0	0.0
E-STEM SW HS	100.0	4.1
Energy InstituteHS	100.0	50.0
Bellaire HS	98.8	80.9
North ForestH S	98.4	0.0
Jones HS	98.4	2.2
Sterling HS	98.4	3.5
Sharpstown International	97.6	27.5
Lee HS	97.3	19.6
Westside HS	97.2	50.3
Eastwood Academy HS	96.8	42.8
Jordan HS	96.4	8.6
Houston MSTC	96.4	12.0
Furr HS	96.1	6.7
Challenge HS	96.0	37.2
Carnegie	95.6	71.8
Kashmere HS	95.0	6.5
DeBaKey	94.9	90.5
Young Women's College Prep	94.7	1.8
Worthing HS	94.6	1.8
East ECHS	94.4	37.1
Scarborough HS	92.2	6.8
HSLECJ	92.1	8.9
Waltrip HS	91.2	22.8
Davis HS	90.1	15.9
Milby HS	89.5	26.1
Wheatley HS	89.4	1.5
Yates HS	89.0	4.7
Reagan HS	88.7	13.2
Sharpstown HS	87.0	29.0
North Houston ECHS	86.6	14.8
Madison HS	86.5	9.7
Westbury HS	86.5	11.9
Austin HS	86.2	28.5
Chavez HS	85.6	30.6
E-STEM SE HS	85.0	0.8
Washington HS	84.3	10.2
Lamar HS	84.3	12.1
Houston Academy for Int'L Studies	80.8	17.3
South ECHS	80.0	10.0
Young Men's College Prep	79.7	8.1
HISD	92.6	35.0

* Masked: $n < 5$

** Bellaire and Lamar high schools offer the International Baccalaureate Program in addition to Advanced Placement.

Figure 10 indicates the following:

- HISD students in grades 9-12 completed 93% of the AP courses taken, and took the corresponding AP exam in 2013-2014. Of the courses completed, 35% of the corresponding AP exams were scored at a 3 or higher.
- Completion rates for AP courses ranged from 79.7% at Young Men's College Preparatory Academy to 100% at the High School for the Performing and Visual Arts, Mount Carmel Academy, Hope Academy, E-STEM, and Energy Institute.
- Of the 44 schools that offered AP courses, and served grades 9-12, 27 (61.4%) had at least 90% of the courses successfully completed by students.
- Of the eight campuses with an AP exam success rate of at least 40%, seven of those campuses had AP course completion rates exceeding 95%.

Figure 11 shows the percent of students in grades 10-12 who completed at least one AP course in 2012-2013 and 2013-2014. **Appendix D** also shows grades 10–12 enrollment on each campus and the number and percent of students in grades 10–12 completing at least one AP course for 2012-2013 and 2013-2014. Very few AP courses are available for students in grade 9, but ninth grade is usually the largest grade level at comprehensive high schools. Thus, basing percentages of AP courses and exams taken on enrollment that includes 9th graders does not truly reflect the rates of participation. Data for **Figure 11** and **Appendix D** is unduplicated; a student in grades 10-12 is counted only once if the student took and completed one or more AP courses. Percentages are based on AP courses taken by students in grades 10–12.

Figure 11. Percent of Students Enrolled in Grades 10-12 Completing ≥ 1 AP Course by Campus*: 2012-2013 and 2013-2014 (unduplicated counts)

Campus	2013	2014	Change, 2014-2013
Austin	100.0	100.0	0.0
Young Women's College Prep	70.0	98.9	28.9
Carnegie	98.4	98.8	0.4
E-STEM SW	96.6	96.3	-0.3
HSLECJ	80.7	81.3	0.5
Eastwood	60.2	76.7	16.5
Challenge	74.5	75.5	1.0
DeBakey	65.1	63.0	-2.1
Young Men's College Prep		57.9	
HSPVA	57.5	53.5	-4.0
Hou. Acad. Int'l	62.2	52.1	-10.0
South ECHS		49.0	
Sharpstown Int'l	53.4	45.2	-8.2
Westside	43.6	43.4	-0.2
Furr	48.2	40.9	-7.3
Reagan	36.5	39.0	2.5
Jordan	51.3	37.4	-13.9
Scarborough	39.1	35.4	-3.7
East Early Coll.	40.7	35.2	-5.5
Westbury	34.0	34.8	0.8
North Houston Early College	37.0	34.3	-2.7
Bellaire	37.6	33.8	-3.8
Houston MSTC	33.2	32.8	-0.3
Madison	21.5	30.1	8.6
Davis	27.0	28.1	1.1
Chavez	28.0	26.1	-1.9
Sharpstown	31.0	25.1	-6.0
Lamar	30.9	24.0	-6.8
Mt. Carmel	29.9	23.0	-6.9
Lee	35.7	22.6	-13.1
Waltrip	28.1	22.4	-5.7
Washington	22.3	22.2	-0.2
Kashmere	16.8	20.8	4.0
Wheatley	18.6	20.3	1.7
Worthing	16.5	19.7	3.2
Jones	16.3	19.4	3.2
Austin	16.3	17.8	1.4
Sterling	16.4	17.5	1.2
Milby	17.9	17.3	-0.5
Yates	20.4	12.3	-8.0
North Forest		8.4	
Community Services		4.3	
Empowerment	47.8		
HISD	33.0	30.7	-2

*Bellaire and Lamar high schools offer the International Baccalaureate Program in addition to Advanced Placement.

Figure 11 indicates the following:

- For HISD, 31% of students in grades 10-12 completed at least one AP course in 2013-2014, down from 33% in 2012-2013.
- During 2013-2014, 14 of the 38 (37%) HISD campuses, with two years of data, increased their percent of students who completed at least one AP course from the previous year.
- The percent of students enrolled in grades 10-12 who completed at least one AP in 2013-2014 ranged from 4.3% at Community Services HS to 100% at Energized for Science and Technology SE HS, with a median of 34%.

Campus Participation and Performance by Exam

Analysis of district-wide participation focused on the number of students taking any of the possible 34 AP exams offered by the College Board. Results for 2013-2014 are presented in **Appendix E**. Additionally, the number of students taking each exam and the percent scoring a 3 or higher are presented for each exam.

AP Exam Participation and Performance by Campus

Advanced Placement Course enrollment and exam data are presented by campus in **Appendix F**. Data analyzed are duplicated by exam and include grades 10–12 enrollment on each campus, the number of AP courses offered, the number and percent of AP courses completed (passed), and the number and percent of AP exams taken and scored at 3 or higher.

AP Scholar Awards

The AP Program offers several AP Scholar Awards to recognize high school students who have demonstrated college-level achievement through AP courses and exams. This achievement is acknowledged on any score report that is sent to colleges the following fall. Notifications about AP Scholar Awards are sent to students and schools in October of each year. The following AP awards are offered by the College Board: AP Scholar, AP Scholar with Honor, AP Scholar with Distinction, State AP Scholar, and National AP Scholar. The criteria for receiving these awards are shown in **Appendix A-2**.

Figure 12 shows the total number of AP awards earned by campus in 2013 and 2014. Additional details of the awards earned at each campus by the award category are shown in **Appendix G**.

Figure 12. The Number of AP Awards Earned by Campus: 2013 and 2014*Ranked by the number of awards in 2014*

Campus	2013	2014	Change, 2014-2013
Bellaire	496	450	-46
Carnegie	185	242	57
DeBakey	215	197	-18
Westside	190	165	-25
HSPVA	103	135	32
Eastwood	45	55	10
Chavez	20	51	31
Challenge	44	50	6
Lamar	47	36	-11
Waltrip	19	22	3
Reagan	22	19	-3
Milby	19	15	-4
Sharpstown Int'l	5	11	6
Lee	3	9	6
Davis	9	8	-1
Houston MSTC	6	7	1
East ECHS	2	6	4
HSLECJ	10	6	-4
Sharpstown	6	6	0
Westbury	14	5	-9
Houston Acad. Int'l Stud.	2	4	2
Austin	2	3	1
N. Houston ECHS	5	3	-2
Scarborough	2	2	0
Furr	0	1	1
Jordan	1	1	0
Madison	3	1	-2
Mt. Carmel	3	1	-2
TCAH	0	1	1
Washington	0	1	1
Worthing	1	1	0
Yates HS	0	1	1
YMCPA	0	1	1
YWCPA	1	1	0
HISD	1,480	1,517	37

Figure 12 indicates the following:

- The number of AP Scholar Awards presented to HISD students increased by 2.5% from 1,480 in 2013 to 1,517 in 2014.
- The median number of awards, 6, was earned at 19 campuses in 2013-2014.
- Bellaire HS accounted for 29.7% of all AP awards earned in HISD in 2014.
- Over eighty percent of all AP awards were earned by students at five campuses: Bellaire HS, Carnegie HS, DeBakey HS, Westside HS, and High School for the Performing and Visual Arts.
- Seventeen campuses earned more awards in 2014 compared to 2013 with four campuses showing double-digit gains.
- The largest gain in AP awards in 2014 occurred at Carnegie HS with an increase of 57 awards compared to 2013.

“Emerging Scholars” 8th and 9th Grade Participation and Performance

Though AP courses and exams are usually taken by high school upperclassmen, increasingly, students in middle school and ninth grade are beginning to take advantage of the opportunity to earn college credits early in their academic careers. The most common courses and exams taken by middle school students and high school underclassmen tend to be Human Geography, typically a ninth-grade course, and foreign language courses and exams, especially for students for whom English is a second language. **Table 3** presents AP course and exam participation and performance for students in grades 8–9. Counts presented in **Table 3** are duplicated.

Table 3: 8th and 9th Grade AP Participation and Performance (Duplicated Count), 2013 and 2014

2014							
Grade	N Enrolled AP Course	N Complete AP Course	% Complete AP Course	N Taking AP Exam	% Comp. Taking AP Exam*	N Score 3+ on AP Exam	% Score 3+ on AP Exam
8	21	21	100.0	543	2,585.7	433	79.7
9	1,431	1,337	93.4	1,756	131.3	629	35.8
Total	1,452	1,358	93.5	2,299	169.3	1,062	46.2
2013							
Grade	N Enrolled AP Course	N Complete AP Course	% Complete AP Course	N Taking AP Exam	% Comp. Taking AP Exam*	N Score 3+ on AP Exam	% Score 3+ on AP Exam
8	326	321	98.5	379	118.1	286	75.5
9	1,293	1,091	84.4	1,540	141.2	491	31.9
Total	1,619	1,412	87.2	1,919	136	777	40.5

*The number of AP Exams taken divided by courses completed.

Table 3 indicates the following:

- In 2014, 1,452 district eighth and ninth graders enrolled in an AP course, compared to 1,619 district eighth and ninth graders enrolled in an AP course in 2013. In 2014, 1,358 (93.5%) of those students completed the course, compared to 1,412 (87%) in 2013.
- A combined total of 2,299 HISD eighth and ninth graders took AP exams in 2014, compared to 1,919 in 2013, representing an increase of 20%.
- In 2014, 46.2 percent of AP exams were scored at a 3 or higher, up 5.7 percentage points from 2013.

Conclusion

The purpose of this report was to provide an examination of the participation and performance of HISD students on Advanced Placement exams and courses. The investigation was also designed to supply a comparison of current year AP results with the results from the previous year. The results from this report indicate that student participation in AP courses decreased from 36.1% in 2013 to 33.7 in 2014 in the district. The number of AP exam takers decreased by 1% from 12,966 in 2013 to 12,837 in 2014. The number of AP exams taken decreased by 1.8% from 22,693 in 2013 to 22,277 in 2014. Despite the decreases in AP testers and the number of AP exams taken, 271 more students had AP exams scored at 3 or higher, reflecting an increase of 3.6% from 2013 to 2014. In addition, 35% of all AP exams taken in 2014 by HISD students in grades 9-12 had AP scores of 3 or higher compared to 33.2% in 2013. The HISD class of 2013 maintained a record with 38% of graduates having taken at least one AP exam compared to 33% in the nation, a gain of 4 percentage points compared to the class of 2011. The number of AP awards presented to HISD students increased by 37 to a new district record of 1,157 reflecting a 2.5% increase in 2014 from 2013. Seventeen campuses earned more AP awards in 2014 than in 2013 including four campuses that increased the number of AP awards earned by double-digits. Many more HISD students are being exposed to Advanced Placement courses and to the opportunity to earn free college credits while still in high school.

Appendix A-1

AP Exam Subjects Available and Offered in HISD

Arts (5)

Art History
Music Theory
Studio Art: 2-D Design
Studio Art: 3-D Design
Studio Art: Drawing

English (2)

English Language and Composition
English Literature and Composition

History & Social Science (9)

Comparative Government and Politics
European History
Human Geography
Macroeconomics
Microeconomics
Psychology
United States Government and Politics
United States History
World History

Math & Computer Science (4)

Calculus AB
Calculus BC
Computer Science A
Statistics

Sciences (6)

Biology
Chemistry
Environmental Science
Physics B
Physics C: Electricity and Magnetism
Physics C: Mechanics

World Languages & Cultures (8)

Chinese Language and Culture
French Language and Culture
German Language and Culture
Italian Language and Culture
Japanese Language and Culture
Latin
Spanish Language and Culture
Spanish Literature and Culture

Appendix A-2

Advance Placement Award Levels Available to HISD Students

Award	Criteria
AP Scholar	Granted to students who receive scores of 3 or higher on three or more AP exams.
AP Scholar with Honor	Granted to students who receive an average score of at least 3.25 on all AP exams taken, and scores of 3 or higher on four or more of these exams.
AP Scholar with Distinction	Granted to students who receive an average score of at least 3.5 on all AP exams taken, <u>and</u> scores of 3 or higher on five or more of these exams.
State AP Scholar	Granted to the one male and one female student in each U.S. state and the District of Columbia with scores of 3 or higher on the greatest number of AP exams, and then the highest average score (at least 3.5) on all AP exams taken.
National AP Scholar	Granted to students in the United States who receive an average score of at least 4 on all AP exams taken, <u>and</u> scores of 4 or higher on eight or more of these exams.

Appendix B: HISD 2013 and 2014 AP Participation and Number and Percent of Exams Scored at 3 or Higher by Campus**, Grades 9-12

School	2013				2014			
	# Exam Takers	# Exam Taken	# Exam Scored 3+	% Exam Scored 3+	# Exam Takers	# Exam Taken	# Exam Scored 3+	% Exam Scored 3+
Austin	274	404	99	25	274	351	100	28.5
Bellaire	926	2,567	2,091	82	877	2,382	1,926	80.9
Carnegie	566	1,273	824	65	587	1,426	1,024	71.8
Challenge	381	557	174	31	371	581	216	37.2
Chavez	727	1,141	348	31	750	1,195	365	30.5
CLC	1	1	*	*				
Davis	370	620	97	16	362	666	106	15.9
DeBakey	393	1,003	919	92	372	955	864	90.5
East Early Coll.	246	279	81	29	188	210	78	37.1
Eastwood	248	465	204	44	285	600	257	42.8
Empowerment	46	49	1	2				
Energy Inst HS					4	4	*	*
E-STEM SE	43	192	3	2	76	128	1	0.8
E-STEM SW	119	226	8	4	53	147	6	4.1
Furr	240	373	3	1	230	314	22	7
Hou. Acad. Int'l	214	311	63	20	175	231	40	17.3
Hope Acad					1	1	*	*
Houston MSTC	584	1,022	127	12	562	974	117	12
HSLECJ	345	737	70	10	342	688	61	8.9
HSPVA	294	640	450	70	270	585	486	83.1
Jones	86	120	4	3	64	134	3	2.2
Jordan	246	355	16	5	206	266	23	8.6
Kashmere	58	115	1	1	105	155	10	6.5
Lamar	1,645	1,731	276	16	1,599	1,649	199	12.1
Lee	328	586	35	6	195	306	60	19.6
Madison	337	525	45	9	454	719	70	9.7
Milby	351	549	164	30	375	551	144	26.1
Mt. Carmel	73	113	3310	9	59	115	12	10.4
N. Houston Early	125	185		18	154	211	31	14.7
North Forest					52	71	0	0
Reagan	584	1,035	139	13	692	1,292	170	13.2
Scarborough	170	289	21	7	161	249	17	6.8
Sharpstown	348	616	112	18	268	410	119	29
Sharpstown Int'l	178	281	74	26	189	284	78	27.5
South EC					29	30	3	10
Sterling	117	169	6	4	100	200	7	3.5
TCAH					26	37	19	51.4
Waltrip	345	636	129	20	330	600	137	22.8
Washington	135	281	11	4	112	254	26	10.2
Westbury	543	957	102	11	538	983	117	11.9
Westside	817	1,707	760	45	937	1,709	860	50.3
Wheatley	119	152	0	0	95	130	2	1.5
Worthing	119	149	12	8	87	112	2	1.8
Yates	113	170	5	3	87	127	6	4.7
YMCPA					25	74	6	8.1
YWCPA	109	109	5	5	119	171	3	1.8
HISD	12,966	22,693	7,524	33	12,837	22,277	7,795	35.0
Texas	209,543	398,130	190,042	48	225,627	410,788	195,009	47.5
Nation	2,168,995	3,864,035	2,284,890	59	2,032,637	3,595,705	2,053,009	57.1

*Fewer than 5 testers

**Bellaire and Lamar high schools offer the International Baccalaureate Program in addition to Advanced Placement

Appendix C: HISD 2014 AP Course and Exam Performance by Students who Both Enrolled in an AP Course and Took the AP Exam, by Campus, Grades 9-12**

Campus	AP Exam			AP Course		
	# Taken	# Score ≥ 3	% Score ≥ 3	# Enrolled	# Completed	% Completed
Austin HS	351	100	28.5	276	238	86.2
Bellaire HS	2,382	1,926	80.9	1,867	1,844	98.8
Carnegie	1,426	1,024	71.8	1,325	1,267	95.6
Challenge HS	581	216	37.2	452	434	96.0
Chavez HS	1,194	365	30.6	966	827	85.6
Davis HS	666	106	15.9	564	508	90.1
DeBakey	955	864	90.5	950	902	94.9
East Early College HS	210	78	37.1	143	135	94.4
Eastwood Academy HS	600	257	42.8	588	569	96.8
Energy Institute HS	4	2	50.0	4	4	100.0
E-STEM Southeast HS	128	1	0.8	113	96	85.0
E-STEM Southwest HS	147	6	4.1	97	97	100.0
Furr HS	313	21	6.7	283	272	96.1
Hope Academy	1	0	0.0	1	1	100.0
HAIS	231	40	17.3	193	156	80.8
Houston MSTC	974	117	12.0	908	875	96.4
HSLECJ	688	61	8.9	681	627	92.1
HSPVA	585	486	83.1	569	569	100.0
Jones HS	134	3	2.2	126	124	98.4
Jordan HS	266	23	8.6	252	243	96.4
Kashmere HS	155	10	6.5	121	115	95.0
Lamar HS	1,649	199	12.1	1,070	902	84.3
Lee HS	306	60	19.6	291	283	97.3
Madison HS	719	70	9.7	675	584	86.5
Milby HS	551	144	26.1	409	366	89.5
Mount Carmel Academy	115	12	10.4	113	113	100.0
North Forest HS	71	0	0.0	64	63	98.4
N.Houston Early College HS	210	31	14.8	149	129	86.6
Reagan HS	1,291	170	13.2	1,172	1,039	88.7
Scarborough HS	249	17	6.8	243	224	92.2
Sharpstown HS	410	119	29.0	401	349	87.0
Sharpstown International	284	78	27.5	292	285	97.6
South Early College SHS	30	3	10.0	30	24	80.0
Sterling HS	200	7	3.5	186	183	98.4
TCAH	37	19	51.4	0	0	0.0
Waltrip HS	600	137	22.8	557	508	91.2
Washington HS	254	26	10.2	249	210	84.3
Westbury HS	983	117	11.9	949	821	86.5
Westside HS	1,709	860	50.3	1,525	1,482	97.2
Wheatley HS	130	2	1.5	123	110	89.4
Worthing HS	112	2	1.8	92	87	94.6
Yates HS	127	6	4.7	109	97	89.0
YMCP	74	6	8.1	74	59	79.7
YWCP	171	3	1.8	171	162	94.7
HISD	22,273	7,794	35.0	19,423	17,983	92.6

Note: AP courses and exams are linked in this table; all students who took an AP course also took the AP exam.

* Fewer than 5 students.

**Bellaire and Lamar high schools offer the International Baccalaureate Program in addition to Advanced Placement.

Appendix D: AP Course Participation by Campus*, Grades 10-12: 2013 and 2014 School Years (Unduplicated Count)

Campus	2013			2014		
	Total Enrolled 10-12	# Completed at least 1 AP Course	% Completed at least 1 AP Course	Total Enrolled 10-12	# Completed at least 1 AP Course	% Completed at least 1 AP Course
Austin	1,188	194	16.3	1,064	189	17.8
Bellaire	2,297	863	37.6	2,351	794	33.8
Carnegie	366	360	98.4	415	410	98.8
Challenge	330	246	74.5	323	244	75.5
Chavez	1,869	524	28.0	2,004	523	26.1
Community Services				23	1	4.3
Davis	1,070	289	27.0	1,116	314	28.1
DeBakey	601	391	65.1	581	366	63.0
East Early Coll.	329	134	40.7	335	118	35.2
Eastwood	299	180	60.2	292	224	76.7
Empowerment	69	33	47.8			
E-STEM SE	43	43	100.0	32	32	100.0
E-STEM SW	119	115	96.6	108	104	96.3
Furr	585	282	48.2	613	251	40.9
Hou. Acad. Int'l	296	184	62.2	305	159	52.1
Houston MSTC	1,673	555	33.2	1,657	544	32.8
HSLECJ	363	293	80.7	384	312	81.3
HSPVA	496	285	57.5	505	270	53.5
Jones	295	48	16.3	278	54	19.4
Jordan	674	346	51.3	641	240	37.4
Kashmere	327	55	16.8	331	69	20.8
Lamar	2,439	753	30.9	2,396	576	24.0
Lee	956	341	35.7	900	203	22.6
Madison	1,332	286	21.5	1,283	386	30.1
Milby	1,361	243	17.9	1,375	238	17.3
Mt. Carmel	241	72	29.9	257	59	23.0
North Forest				677	57	8.4
N. Houston Early College	270	100	37.0	277	95	34.3
Reagan	1,432	522	36.5	1,542	601	39.0
Scarborough	399	156	39.1	418	148	35.4
Sharpstown	851	264	31.0	890	223	25.1
Sharpstown Int'l	309	165	53.4	363	164	45.2
South ECHS				49	24	49.0
Sterling	611	100	16.4	525	92	17.5
Waltrip	1,100	309	28.1	1,127	252	22.4
Washington	497	111	22.3	487	108	22.2
Westbury	1,417	482	34.0	1,359	473	34.8
Westside	1,922	838	43.6	1,909	829	43.4
Wheatley	587	109	18.6	557	113	20.3
Worthing	449	74	16.5	396	78	19.7
Yates	619	126	20.4	649	80	12.3
YMCP				38	22	57.9
YWCP	60	42	70.0	94	93	98.9
HISD	30,081	10,471	34.8	32,993	10,132	30.7

*Bellaire and Lamar high schools offer the International Baccalaureate Program in addition to Advanced Placement.

Note: Enrollment is based on PEIMS Fall Snapshot and AP course enrollment is from Chancery end-of-year file.

Appendix F: HISD 2014 AP Course and Exam Performance by Campus**, Grades 10-12 (Duplicated Count)

Campus	# Students Enrolled	# AP Courses Offered	# Courses Enroll.	# Course Comp.	% Course Comp.	N Exams Taken	# Exams Score 3+	% Exams Score 3+
Austin	1,064	14	289	276	95.5	351	100	28.5
AVA /Twilight Schools	282	4	5	0	0.0	0	0	0.0
Beechnut Academy	109	5	12	10	83.3	0	0	0.0
Bellaire	2,351	23	2,024	2,013	99.5	2,391	1,926	80.6
Carnegie	415	24	1,367	1,346	98.5	1,428	1,024	71.7
Challenge	323	7	457	449	98.2	581	216	37.2
Chavez	2,004	12	1,045	994	95.1	1,218	365	30.0
Community Services	23	3	2	2	100.0	0	0	0.0
Davis	1,116	18	729	703	96.4	688	106	15.4
DeBakey	581	16	1,018	1,001	98.3	957	864	90.3
East Early Coll.	335	8	148	145	98.0	224	78	34.8
Eastwood	292	0	594	593	99.8	600	257	42.8
E-STEM SE	32	14	195	192	98.5	146	1	0.7
E-STEM SW	108	9	248	246	99.2	148	6	4.1
Furr	613	15	458	454	99.1	319	22	6.9
Hope Academy	61	0	0	0	0.0	1	0	0.0
Hou. Acad. Int'l	305	8	257	244	94.9	232	40	17.2
Houston MSTC	1,657	16	1,014	989	97.5	980	117	11.9
HSLECJ	384	15	701	689	98.3	688	61	8.9
HSPVA	505	11	585	585	100.0	586	486	82.9
Jones	278	7	133	133	100.0	134	3	2.2
Jordan	641	12	417	414	99.3	266	23	8.6
Kashmere	331	8	131	127	96.9	161	10	6.2
Lamar	2,396	4	1,411	1,332	94.4	1,652	199	12.0
Lee	900	15	359	351	97.8	313	61	19.5
Long Academy	72	1	42	42	100.0	42	40	95.2
Madison	1,283	16	876	802	91.6	741	70	9.4
Milby	1,375	15	457	439	96.1	554	144	26.0
Mt. Carmel	257	7	120	120	100.0	115	12	10.4
North Forest	677	7	101	100	99.0	0	0	0.0
N. Houston Early	277	8	177	174	98.3	211	31	14.7
REACH Charter School	307	3	3	3	100.0	0	0	0.0
Reagan	1,542	22	1,328	1,284	96.7	1,297	170	13.1
Scarborough	418	14	271	269	99.3	249	17	6.8
Sharpstown	890	13	442	423	95.7	410	119	29.0
Sharpstown Int'l	363	17	368	361	98.1	0	0	0.0
South ECHS	49	2	32	30	93.8	0	0	0.0
Sterling	525	11	198	197	99.5	200	7	3.5
TCAH	734					37	19	51.4
Waltrip	1,127	16	658	636	96.7	602	137	22.8
Washington	487	10	275	263	95.6	254	26	10.2
Westbury	1,359	15	1,064	987	92.8	987	117	11.9
Westside	1,909	29	1,830	1,803	98.5	1,713	860	50.2
Wheatley	557	8	204	199	97.5	131	2	1.5
Worthing	396	7	114	114	100.0	114	2	1.8
Yates	649	6	127	124	97.6	129	6	4.7
YMCP	38	3	74	70	94.6	0	0	0.0
YWCP	94	4	176	175	99.4	0	0	0.0
HISD	32,993	34	22,536	21,903	97.2	21,850	7,744	35.4

* Fewer than 5 students.

** Bellaire and Lamar high schools offer the International Baccalaureate (IB) Program in addition to Advanced Placement.

Appendix G: AP Scholar Awards* (2013 and 2014)

Campus	2013					2014				
	Scholar	Honor	Distinction	National	Total	Scholar	Honor	Distinction	National	Total
Austin	2	0	0	0	2	3	0	0	0	3
Bellaire	132	59	224	81	496	133	75	182	60	450
Carnegie	80	32	57	16	185	93	40	89	20	242
Challenge	33	7	4	0	44	33	5	12	0	50
Chavez	16	3	1	0	20	36	10	4	1	51
Davis	9	0	0	0	9	8	0	0	0	8
DeBakey	54	34	96	31	215	48	33	89	27	197
East ECHS	2	0	0	0	2	6	0	0	0	6
Eastwood	35	5	5	0	45	42	8	5	0	55
Furr	0	0	0	0	0	0	0	1	0	1
HAIS	1	1	0	0	2	2	2	0	0	4
Houston MSTC	6	0	0	0	6	6	1	0	0	7
HSLECJ	10	0	0	0	10	5	1	0	0	6
HSPVA	60	16	22	5	103	59	28	39	9	135
Jordan	1	0	0	0	1	1	0	0	0	1
Lamar	39	7	1	0	47	25	7	4	0	36
Lee	3	0	0	0	3	9	0	0	0	9
Madison	3	0	0	0	3	1	0	0	0	1
Milby	15	1	2	1	19	14	1	0	0	15
Mt. Carmel	3	0	0	0	3	1	0	0	0	1
N. Houston ECHS	3	1	1	0	5	3	0	0	0	3
Reagan	15	3	3	1	22	17	1	1	0	19
Scarborough	2	0	0	0	2	2	0	0	0	2
Sharpstown	6	0	0	0	6	6	0	0	0	6
Sharpstown Int'l	4	0	1	0	5	9	0	1	1	11
TCAH						0	1	0	0	1
Waltrip	18	0	1	0	19	16	4	2	0	22
Washington	0	0	0	0	0	1	0	0	0	1
Westbury	12	0	1	1	14	5	0	0	0	5
Westside	120	26	34	10	190	90	18	43	14	165
Worthing	1	0	0	0	1	1	0	0	0	1
Yates HS						1	0	0	0	1
YMCPA						1	0	0	0	1
YWCPA	1	0	0	0	1	1	0	0	0	1
HISD	686	195	453	146	1,480	678	235	472	132	1517

* See Appendix A-2 for AP awards criteria.