

MEMORANDUM

January 30, 2012

TO: Board Members

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

SUBJECT: **ADVANCED PLACEMENT (AP) REPORT: 2010–2011**

CONTACT: Carla Stevens, Research and Accountability, 713-556-6700

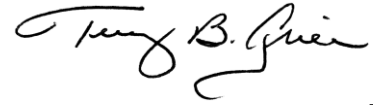
The Department of Research and Accountability has completed the 2010–2011 Advanced Placement (AP) Report. The AP program directly supports HISD's Strategic Direction for Core Initiative 3: Rigorous Instructional Standards and Supports. The AP Program provides high school students with the opportunity to take college-level courses and earn college credit. A possible 37 AP exams are offered in 22 subject areas, and exams are administered over a two-week period each year in May. 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. Some key findings are as follows:

- The total number of exams taken by HISD students increased from 16,556 in 2010 to 21,347 in 2011, up by 29 percent, or 4,791 exams.
- In the 2009–2010 school year, 36 HISD high schools offered at least one AP course, and in 2010–2011, the number of HISD high schools offering at least one AP course increased to 40.
- Of the 32 HISD campuses who tested students on AP exams in both 2010 and 2011, 29 of 36 (80%) increased the number of students taking exams, and 27 of 36 (75%) campuses increased the number of exams taken. Finally, 21 of the 34 campuses with two years of reportable data (62%) experienced an increase in the number of exams scoring a 3 or higher.
- The number of AP Scholar Awards presented to HISD students more than tripled from 325 in 2010 to 1,070 in 2011.

Administrative Response:

In addition to the data found in this report, additional data have been gathered to indicate the program's overall growth for all AP test-takers in the past three years. These data show increases in the percentage of Hispanic and African-American students earning qualifying scores; a 73% increase and an 80% increase over three years, respectively. The district's efforts to increase access to Advanced Placement for HISD students are notable. An increase in both participation and performance is statistically rare and should be celebrated.

Attached is the complete report including an analysis of districtwide 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. Results were analyzed by grade, race/ethnicity, and gender.

A handwritten signature in black ink, appearing to read "Terry B. Guen".

TBG

Attachment

cc: Superintendent's Direct Reports
Chief School Officers
School Improvement Officers
Martha Salazar-Zamora
Alan Summers
Estibaliz Arriaga
June Giddings



RESEARCH

Educational Program Report

Advanced Placement (AP) Report 2010–2011



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Advanced Placement 2010–2011

Introduction

The College Board's Advanced Placement (AP) Program provides participating students with the opportunity to take college-level courses while still in high school and earn college credit, advanced placement, or both. A possible 37 examinations, covering 22 subject areas, are administered in May at participating schools. Ninety percent of colleges and universities grant credit, placement, or both to students receiving a qualifying score on an AP exam (usually 3 or higher on a scale of 1 to 5). Studies show that students who take AP courses and exams are more likely to succeed in college. Families may 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, and the AP program also offers a number of Scholar Awards to AP students who have shown outstanding achievement, which is acknowledged on any grade report that is sent to colleges the following fall. 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 2010–2011 school year, HISD schools had all courses labeled as “AP” 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

Each examination subject is graded on a scale of 1 (No recommendation) to 5 (Extremely well qualified). Typically, scores of 3 or above qualify a student to receive advanced placement, college credit, or both. Multiple-choice sections are scored by computer. The free-response section is typically scored using a three-step process: development of preliminary scoring standards, establishment of final scoring standards, and the reading. AP examinations may be compared from one year to another through equating (College Board, AP Central, 2004).

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” data base 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 August 23, 2011 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

Longitudinal test performance from 2006–2011, 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 2011 global scores for test performance by subject were extracted from the 2011 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 2010–2011 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 eligible to complete and the number completing.

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 was computed, it was divided by the total number of students who were eligible to complete.

Mean test scores by gender, race/ethnicity, and economic status for AP subjects were analyzed by comparing mean scores. For race/ethnicity, the number of Hispanic students combines the total populations for the Chicano/Mexican, Puerto Rican, and Other Hispanic racial/ethnic categories. 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

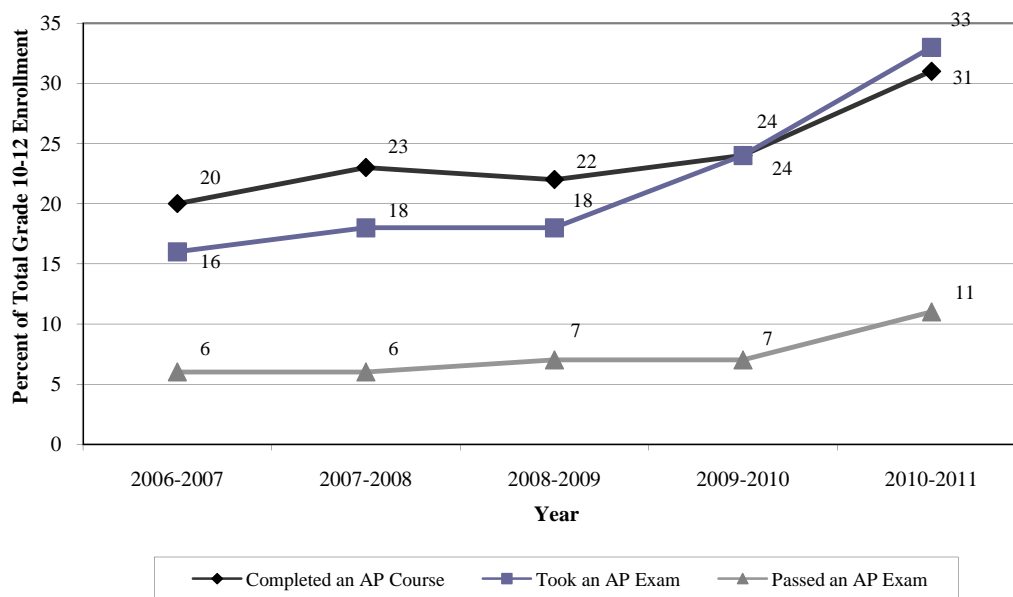
The College Board reported test performance, along with demographic information supplied by the students to HISD. These data included results for all HISD schools that had participating students. These data, together with enrollment data from the Public Education Information Management System (PEIMS)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

Results

Districtwide Participation

The total number of exams taken by HISD students increased to 21,347 in 2011 from 16,556 in 2010, up by 29 percent, or 4,791 exams. The percent of exams scored at a 3 or higher was 31 percent, a decrease of 7 percentage points from 2010. District data for 2008–2009 were drawn from the corrected electronic file provided by the College Board and only included exams taken by HISD high school students. **Figure 1** shows the percent of students in grades 10–12 who completed an AP course, the percent who took an AP exam, and the percent who passed an AP exam from 2007 to 2011. Percentages are based on grades 10–12 enrollment.

Figure 1: Grade 10-12 AP Participation and Performance



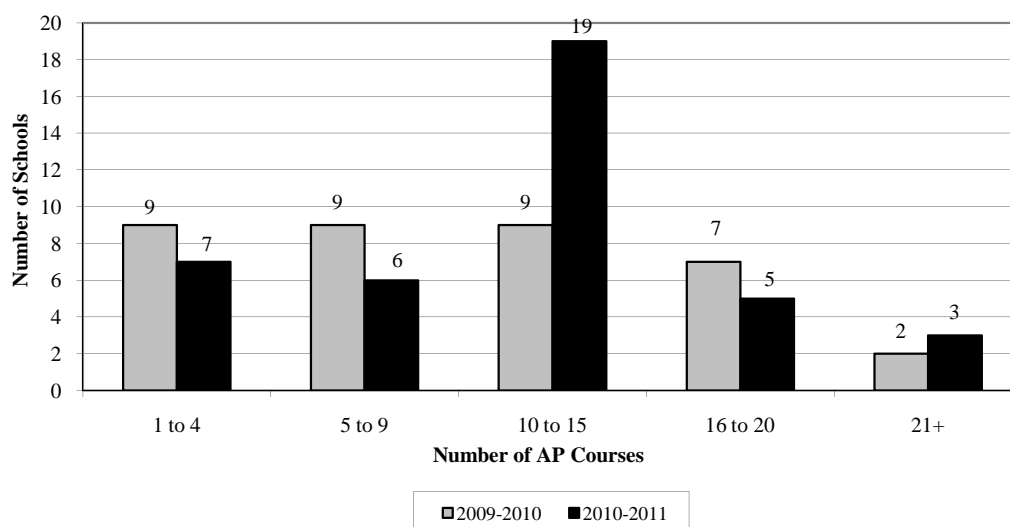
Note: Completion of an AP course is defined as receiving a passing grade at the end of the course.

- Since the 2006–2007 school year, the percentage of students in grades 10 through 12 who took at least one AP exam has increased from a low of 16 percent in 2006–2007 to a high of 33 percent in 2010–2011.
- The percentage of HISD students in grades 10 through 12 who completed at least one AP course has increased from 20 percent in 2006–2007 to 31 percent in 2010–2011.
- Eleven percent of HISD students enrolled in grades 10-12 passed at least one AP exam in 2010–2011, up from 7 percent in the 2008–2009 and 2009–2010 school years.

AP Course Offerings

Figure 2 shows the distribution of AP courses offered in district high schools for the 2010–2011 school year.

Figure 2: Distribution of AP Course Offerings, 2009-2010 and 2010-2011



Note: Includes only campuses offering at least one AP course for the specified years.

- In the 2009–2010 school year, 36 HISD high schools offered at least one AP course, and in 2010–2011, the number of HISD high schools offering at least one AP course increased to 40.
- Thirteen district campuses offered between one and nine AP courses in 2010–2011, and there was a sharp increase in the number of campuses offering 10 to 15 AP courses, from 9 in 2009–2010 to 19 in 2010–2011.

Participation by Student Group

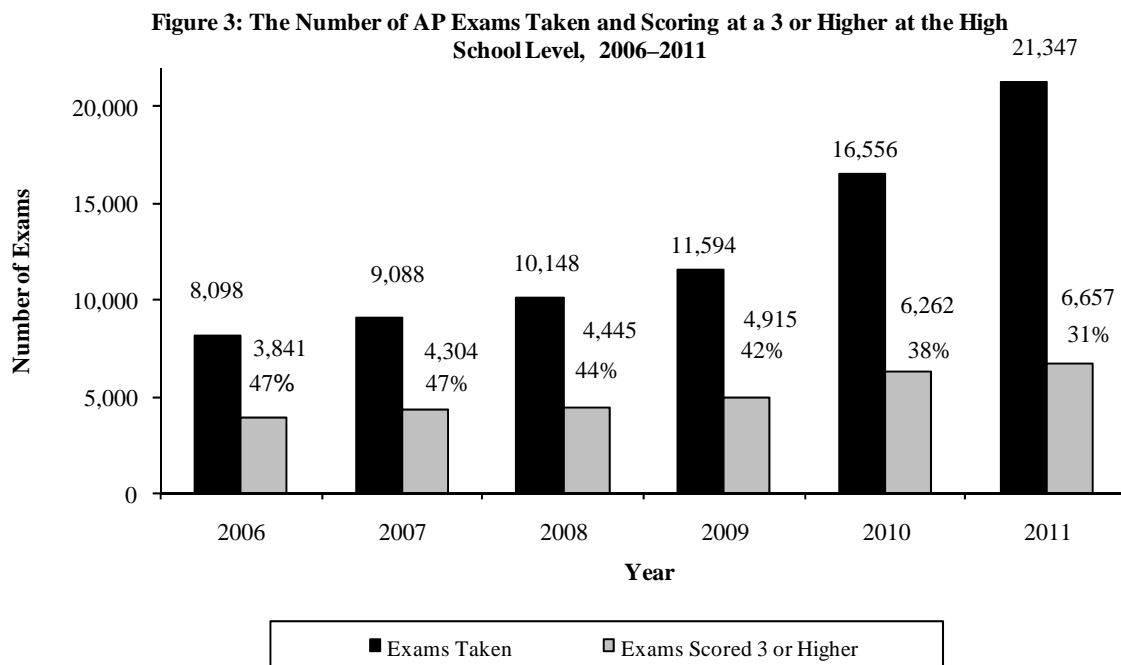
The number and percent of HISD total enrollment and AP course enrollment for grades 10–12 by race/ethnicity and economic status are presented in **Table 1**. This reflects an unduplicated count of students.

Student Group	N Enrolled	% Total Enrollment	N Enrolled in AP	% of AP Enrollment
African American	9,041	29.1	2,594	25.0
American Indian	94	0.3	27	0.3
Asian American	1,198	3.9	767	7.4
Hispanic	17,287	55.6	5,249	50.5
Pacific Is./Hawaiian	116	0.4	46	0.4
White	3,011	9.7	1,596	15.4
2 or More	202	0.6	107	1.0
Other	154	0.5	*	0.0
Economically Dis.	22,058	70.9	6,448	62.1
Non-Econ. Dis.	9,045	29.1	3,939	37.9
Total	31,103		10,387	

- Hispanic students comprise the largest racial/ethnic group enrolled in grades 10 through 12, accounting for 55.6 percent of the total enrollment, and they represent 50.5 percent of all students in grades 10 through 12 enrolled in AP courses. Students in the African American group represent the second largest percentage of both total enrollment, at 29.1 percent, and AP course enrollees, at 25.0 percent.
- While Asian American and White students combine for only 13.6 percent of the total population of grades 10 through 12, they account for 22.8 percent of all AP course enrollees. Also, 70.9 percent of HISD students in grades 10–12 are economically disadvantaged, and they constitute 62.1 percent of those students enrolled in AP courses.

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 3**.



- The number of AP exams taken by high-school students increased by 29 percent, from 16,556 in 2010 to 21,347 in 2011.
- Over the past six years, the number of Advanced Placement (AP) exams taken by HISD high-school students has increased from 8,098 in 2006 to 21,347 in 2011. While the number of exams scored at a 3 or higher has increased from 3,841 in 2006 to 6,657 in 2011 at the high-school level, the percentage has decreased to 31 percent in 2011 from 47 percent in 2006.

District Summary by Student Group

AP course completion and AP exam participation and performance by student groups including race/ethnicity, gender, economic status, and LEP status were examined for 2011. The number and percent of HISD students in grades 10–12 completing AP courses, taking AP exams, and passing AP exams are

presented by student group in **Table 2**. This table reflects a duplicated count of students for courses and exams.

Table 2: 2011 AP District Summary of AP Course Completion by Demographic Group, Grades 10–12
(Duplicated Count)

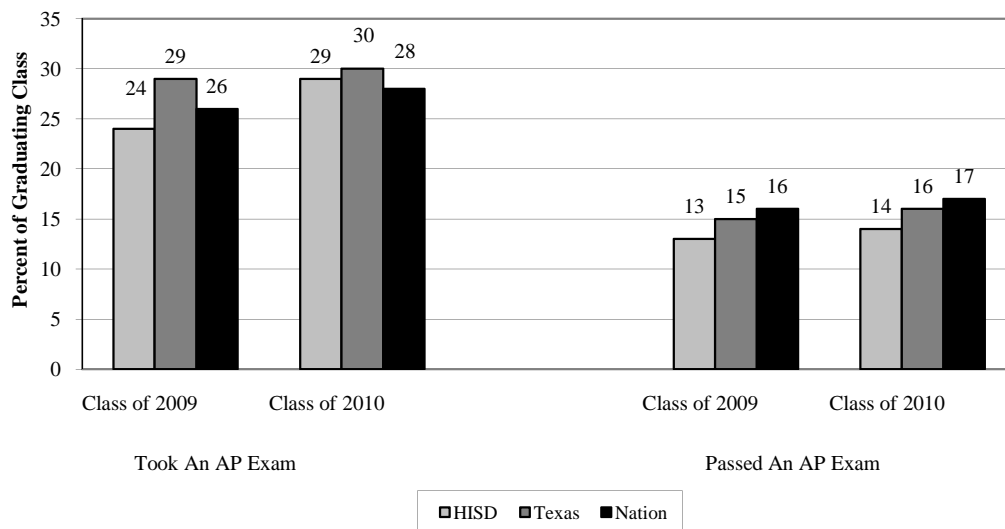
Student Group	Total Gr 10-12 Enroll.	AP Course Completion		AP Exams of AP Comp.		AP Exam 3+	
		Total	Percent	Total	Percent	Total	Percent
Afr. Amer.	9,041	4,260	47.1	3,523	82.7	474	13.5
Amer. Ind.	94	41	43.6	32	78.0	8	25.0
Asian Amer.	1,198	2,018	168.4	1,900	94.2	1,341	70.6
Hispanic	17,287	8,184	47.3	7,123	87.0	1,255	17.6
Pac. Is./HI	116	86	74.1	62	72.1	18	29.0
White	3,011	3,252	108.0	2,888	88.8	1,637	56.7
2 or More	202	205	101.5	186	90.7	107	57.5
Other	154	0	0.0	0		0	
Econ. Dis.	22,058	10,208	46.3	8,818	86.4	1,461	16.6
Non-Eco. Dis.	9,045	7,838	86.7	6,896	88.0	3,379	49.0
LEP	1,766	46	2.6	33	71.7	8	24.2
Non-LEP	29,337	18,000	61.4	15,681	87.1	4,832	30.8
Female	15,827	10,106	63.9	8,818	87.3	2,503	28.4
Male	15,276	7,940	52.0	6,896	86.9	2,337	33.9
Total	31,103	18,046	58.0	15,714	87.1	4,840	30.8

- For the district as a whole, 31,103 students in grades 10-12 completed 18,046 AP courses at a rate of .5 courses (taken and passed) per student (58%). Additionally, 15,714 exams were taken by students in grades 10-12, reflecting 87 percent of AP courses passed. AP exams were passed at a rate of nearly one-third of the AP courses passed (30.8%).
- In 2011, Hispanic students represented the largest student group of students in grades 10 through 12; however, Hispanic students completed AP courses at a rate of less than .5 of a course per student (47.3%). By contrast, Asian American students, who represented one of the smallest student groups by ethnicity, completed AP courses at a rate of over 1.5 courses per student (168.4%). White students completed on average just over one course per student (108%).

Comparison with State and Nation

Participation and performance for the district, state, and nation are presented in **Figure 4**. The College Board provides data for graduating classes for the state and nation in its annual *AP Report to the Nation*, which is released in January of each year.

**Figure 4: Percent of Graduates Who Took and Passed an AP Exam:
Classes of 2009 and 2010**



Note: Source for 2009 and 2010 state and national data: AP Report to the Nation, 6th and 7th editions, the College Board. Source for 2010 HISD data, College Board hard copy data report; 2011 HISD data derived from August 23, 2011 AP electronic file and 2009-2010PEIMS Graduates file (2011 Fall submission).

- For the classes of 2009 and 2010, HISD trailed Texas and the nation in the percentage of graduates who passed an AP exam. In 2010, HISD outperformed the nation in the percentage of graduates who took an AP exam at some point in their high school career and was only one percentage point below the state.
- The percentage of HISD graduates who took an AP exam increased by five percentage points from 2009 to 2010, exceeding both the state and national increases, and the percentage who passed an AP exam also increased over the same time period.

Participation by Schools

Table 3 presents the number of students and the number of exams taken for each of these high schools as well as the number and percent scoring a 3 or higher.

School	2010				2011			
	Number Taking Exams	Number Exams Taken	Number Exams Scored 3+	% Scored 3+	Number Taking Exams	Number Exams Taken	Number Exams Scored 3+	% Scored 3+
Austin	455	697	139	20	335	452	69	15
Bellaire**	838	2,558	2,146	84	886	2,576	2,031	79
Carnegie	354	715	459	64	442	940	579	62
Challenge	159	192	116	60	285	378	97	26
Chavez	725	1,019	197	19	722	1,013	187	18
CLC [†]					9	13	0	0
Davis	283	440	108	25	326	552	115	21
DeBakey	399	961	804	84	414	971	834	86
East Early	62	74	16	22	269	383	51	13
Eastwood	211	384	123	32	246	533	151	28
Empowerment	27	28	10	36	9	11	0	0
Energ. STEM	60	60	*	*	120	306	18	6
Furr	223	354	55	16	390	680	32	5
Hope Aca. [†]					1	1	*	*
Houston MST	291	551	53	10	295	480	42	9
HSLECJ	231	414	58	14	275	454	62	14
HSPVA	297	534	211	40	342	630	288	46
International	54	59	8	14	274	375	17	5
Int'l @ Sharp	111	150	9	6	229	366	38	10
Jones	45	45	*	*	84	143	7	5
Jordan	263	334	28	8	243	353	29	8
Kashmere	63	89	*	*	89	140	0	0
Lamar**	60	61	23	38	1,113	1,148	176	15
Lee	287	707	201	28	277	574	119	21
Madison	298	441	25	6	370	529	30	6
Milby	277	539	125	23	456	779	172	22
Mt. Carmel	40	52	8	15	71	110	8	7
New Aspir. [†]					1	1	*	*
North EC HS [†]					179	224	123	55
Reagan	278	460	100	22	320	557	95	17
Scarborough	81	152	27	18	98	208	33	16
Sharpstown	260	479	48	10	286	451	13	3
South EC HS [†]					61	62	1	2
Sterling	27	27	*	*	164	254	9	4
Waltrip	255	503	131	26	292	541	97	18
Washington	159	348	16	5	144	255	50	20
Westbury	308	669	87	13	501	861	121	14
Westside	1,076	1,938	924	48	1,197	2,258	949	42
Wheatley	66	77	*	*	140	200	3	2
Worthing	102	141	5	4	197	342	5	1
Yates	149	303	*	*	146	243	6	2
HISD	8,875	16,556	6,262	38	12,298	21,347	6,657	31

[†]Note: Did not offer AP exams in 2010. *Fewer than 5 students.

^{**}Bellaire and Lamar high schools offer the International Baccalaureate Program.

Source: 2010 College Board OSR, August 14, 2010; 2011 College Board electronic file August 23, 2011

- Of the 32 HISD campuses who tested students on AP exams in both 2010 and 2011, 29 of 36 (80%) increased the number of students taking exams, and 27 of 36 (75%) campuses increased the number of exams taken. Finally, 21 of the 34 campuses with two years of reportable data (62%) experienced an increase in the number of exams scoring a 3 or higher.

Student AP Participation and Performance by Campus

Table 4 presents the grade 10–12 enrollment on each campus, the number and percent of students in grades 9–12 completing at least one AP course, the number and percent of students taking at least one AP exam, and the number and percent of students earning a 3 or higher on AP exams. 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 Table 4 are unduplicated; though a student may take more than one AP course or exam, he is only counted once. Percentages are based on AP courses and exams taken by students in grades 9–12. Students may take AP exams without taking the AP course.

Table 4: AP Student Data by Campus: 2010–2011 School Year (Unduplicated Count)							
School	Total Enroll. 10-12	Number Comp.AP Course	% of Enroll Comp.AP Course	Number Taking AP Exam [†]	% Enr Taking AP Ex	Number Stu. Score 3+ AP Ex	% Enr Score 3+ AP Exam
HISD	31,103	10,966	35.3	12,252	39.4	3,860	12.4
Austin	1,258	217	17.2	330	26.2	64	5.1
Bellaire**	2,439	838	34.4	886	36.3	768	31.5
Carnegie	297	395	133.0	442	148.8	311	104.7
Challenge	317	231	72.9	285	89.9	85	26.8
Chavez	1,745	486	27.9	719	41.2	171	9.8
CLC	183	8	4.4	7	3.8	0	0.0
Davis	1,107	245	22.1	324	29.3	102	9.2
DeBakey	626	412	65.8	414	66.1	380	60.7
East Early	313	236	75.4	269	85.9	44	14.1
Eastwood	255	179	70.2	245	96.1	127	49.8
Empowerment	9	9	100.0	9	100.0	0	0.0
En. STEM C	89	76	85.4	120	134.8	17	19.1
En. STEM W	38	38	100.0	0	0.0	0	0.0
Furr	504	356	70.6	389	77.2	28	5.6
Houston M/S/T	1,737	305	17.6	294	16.9	32	1.8
HSLECJ	396	266	67.2	275	69.4	50	12.6
HSPVA	465	352	75.7	342	73.5	168	36.1
International	261	249	95.4	273	104.6	16	6.1
Int'l HS Sharp	238	228	95.8	227	95.4	31	13.0
Jones	373	82	22.0	80	21.4	3	0.8
Jordan	788	225	28.6	243	30.8	28	3.6
Kashmere	364	83	22.8	89	24.5	0	0.0
Lamar**	2,185	1,082	49.5	1,111	50.8	175	8.0
Lee	1,058	256	24.2	276	26.1	86	8.1
Madison	1,505	346	23.0	370	24.6	30	2.0
Milby	1,474	273	18.5	453	30.7	139	9.4
Mt. Carmel	198	66	33.3	71	35.9	5	2.5
North EC HS	183	89	48.6	179	97.8	110	60.1
Reagan	1,254	310	24.7	317	25.3	73	5.8
Scarborough	449	96	21.4	96	21.4	27	6.0
Sharpstown	796	280	35.2	283	35.6	11	1.4
South EC HS	49	62	126.5	61	124.5	1	2.0
Sterling	687	165	24.0	164	23.9	9	1.3
Waltrip	1,175	330	28.1	291	24.8	75	6.4
Washington	586	142	24.2	144	24.6	27	4.6
Westbury	1,454	315	21.7	499	34.3	98	6.7
Westside	2,158	1,154	53.5	1,193	55.3	555	25.7
Wheatley	676	155	22.9	139	20.6	3	0.4
Worthing	638	186	29.2	197	30.9	5	0.8
Yates	776	143	18.4	146	18.8	6	0.8

*Fewer than 5 students. [†] Total excludes exams with no grade level indicated.

**Bellaire and Lamar high schools offer the International Baccalaureate Program.

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

- For the 2010–2011 school year, 24 HISD campuses had at least 25 percent of their students complete an AP course; 28 HISD campuses had at least 25 percent of their students take an AP exam, and eight campuses had at least 25 percent of their students score a 3 or higher on an AP exam.

Campus Participation and Performance by Exam

Analysis of districtwide participation focused on the number of students taking any of the possible 37 AP exams offered by the College Board. Results from 2010–2011 are presented in **Appendix A**. Additionally, the number of students taking each exam and the percent scoring a 3 or higher are presented for each exam. This Appendix contains unmasked small numbers and will be provided only to principals and campus-specific staff. It is not available in the public version of this report.

AP Exam Participation and Performance by Campus

Advanced Placement Course enrollment and exam data are presented by campus in **Appendix B**. Data analyzed are duplicated by exam and included the grade 10–12 enrollment on each campus, the number of AP courses offered, and 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. According to the College Board, the following descriptions are provided awards given:

- 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, **and** scores of 3 or higher on five or more of these exams; and
- National AP Scholar: Granted to students in the United States who receive an average score of at least 4 on all AP Exams taken, **and** scores of 4 or higher on eight or more of these exams.

AP Scholar Awards earned by HISD students for 2010 and 2011 are presented by campus and districtwide in **Appendix C**. The number of AP Scholar Awards presented to HISD students more than tripled from 325 in 2010 to 1,070 in 2011.

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

Though Advanced Placement 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. Increasingly, eighth and ninth graders in HISD are participating in Advanced Placement programs. **Table 5** presents AP course and exam participation and performance for students in grades 8–9. Counts presented in Table 5 are unduplicated.

Table 5: 2011 8th and 9th Grade AP Participation and Performance

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	299	293	98	299	102	196	66
9	1,428	1,248	87	1,868	150	458	25
Total	1,727	1,541	89	2,165	140	654	30

- In 2011, 1,727 district eighth and ninth graders enrolled in an AP course, and 1,541 (89%) of those students completed the course. A combined total of 2,165 HISD eighth and ninth graders took AP exams in 2011, and 30 percent of those exams were scored at a 3 or higher.

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 indicated that student participation on AP exams in the district increased from the previous year. In addition, enrollment in AP courses also increased in 2010–2011 from the previous school year. Though the percentage of students scoring a 3 or higher decreased slightly over the same time period and has decreased steadily over the past ten years, it is important to note that many more students are performing at this high level today. Notably, in 2001, 57 percent of just 3,769 AP exams taken by HISD students were scored at 3 or higher, and in 2011, 31 percent of 21,347 exams scored at this level, reflecting many more exams. More HISD students are being exposed to Advanced Placement courses and to the opportunity to earn college credit.

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Reported as Number of Students Who Scored 3 or Higher Versus Number of Exams Taken (to be continued)

AP Exam Title	N Scoring 3 or Higher		Austin HS	Bellaire HS	Carnegie Vanguard HS	Challenge HS	Chavez HS	Contemporary Learning Center HS	Davis HS	DeBakey HS	East Early College HS	Eastwood Academy	Empowerment College Prep HS	Energized for E-STEM Central HS	Furr HS	High School LECJ	High School PVA	Hope Academy	Houston Academy for International	Houston Math/Sci./Tech. Center	Jones HS	Jordan HS	Kashmere HS	Lamar HS	Lee HS	Madison HS	Milby HS	Mount Carmel Academy	New Aspirations HS	North Houston Early College HS	Reagan HS	Scarborough HS	Additional Schools Appended After Campus Totals
	N Exams Taken																																
	% Scoring 3 or Higher																																
Art History	40 143	28.0	* 2 *	* 4 *	13 18 72.2	— — —	— — —	— — —	1 15 6.7	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	0 20 0.0	— — —	— 1 *	— — —	0 45 0.0	— — —	— — —	— — —	— — —	— — —	— 2 *	— — —	— — —		
Art: Studio Art-2-D Design	28 53	52.8	* 3 *	5 5 100.0	5 5 100.0	— 3 *	* — —	— — —	— — —	— — —	— — —	* 2 *	— — —	— — —	— — —	— — —	— — —	— — —	— — —	2 10 20.0	— — —	— — —	— — —	* 4 *	— — —	— — —	— — —	— — —	— — —	* 1 *	— — —	— — —	
Art: Studio Art-3-D Design	* 2	*	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	
Art: Studio Art-Drawing	13 42	31.0	0 13 0.0	* 3 *	* 1 *	— 3 *	* — —	— — —	— — —	* 1 *	— — —	* 3 *	— — —	— — —	— — —	— — —	— — —	— — —	— — —	* 1 *	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	* 3 *	* 4 *	— — —	
Biology	213 621	34.3	1 17 5.9	51 63 81.0	12 22 54.5	— 28 7.1	2 — 3.7	— 27 —	1 127 78.0	5 19 26.3	0 8 0.0	— — —	— 41 2.4	1 — —	9 28 32.1	— — —	0 20 0.0	— — —	— — —	* 4 *	— — —	— — —	1 18 5.6	0 17 0.0	1 10 10.0	* 1 *	— — —	— — —	2 17 11.8	0 22 0.0	— — —		
Calculus AB	310 774	40.1	1 21 4.8	57 74 77.0	14 15 93.3	— 27 14.8	4 — —	— — —	10 23 43.5	155 183 84.7	0 36 0.0	1 12 8.3	* 2 *	0 5 0.0	0 16 0.0	1 9 11.1	14 24 58.3	— — —	— — —	2 21 9.5	* 1 *	0 8 0.0	— — —	4 70 5.7	5 24 20.8	0 17 0.0	3 13 23.1	* 4 *	— — —	12 15 80.0	0 7 0.0	— — —	
Calculus BC	167 190	87.9	— — 89.5	77 86 89.5	10 13 76.9	* 1 *	— — —	— — —	— — 100.0	26 26 100.0	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	8 11 72.7	11 13 84.6	— — —	— — —	— — —	— — —	— — —	— — —	— — —		
Chemistry	152 523	29.1	— — 82.7	81 98 82.7	4 6 66.7	— 40 0.0	0 — —	— — —	50 60 83.3	0 6 0.0	1 15 6.7	— — —	— — —	0 54 0.0	0 40 0.0	— — —	— — —	— — —	0 26 0.0	— — —	0 19 0.0	— — —	— — —	1 5 20.0	— — —	0 9 0.0	— — —	— — —	— 8 12.5	1 — —	— — —		

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AP Exam Title	N Scoring 3 or Higher		Austin HS	Bellaire HS	Carnegie Vanguard HS	Challenge HS	Chavez HS	Contemporary Learning Center HS	Davis HS	DeBakey HS	East Early College HS	Eastwood Academy	Empowerment College Prep HS	Energized for E-STEM Central HS	Furr HS	High School LECJ	High School PVA	Hope Academy	Houston Math/Sci./Tech. Center	Houston Academy for International	Jones HS	Jordan HS	Kashmere HS	Lamar HS	Lee HS	Madison HS	Milby HS	Mount Carmel Academy	New Aspirations HS	North Houston Early College HS	Reagan HS	Scarborough HS	Additional Schools Appended After Campus Totals
	N Exams Taken																																
	% Scoring 3 or Higher																																
Chinese Language & Culture	49 61	80.3		35 38 92.1												*1 *																	
Computer Science A	51 154	33.1		33 86 38.4	10 13 76.9							*1 *					*1 *				*1 *										1 45 2.2		
Computer Science AB																																	
Economics: Macroeconomics	345 984	35.1	0 6 0.0	206 248 83.1	7 11 63.6		0 18 0.0		1 54 1.9	36 47 76.6					11 52 21.2	30 54 55.6			11 36 30.6	0 16 0.0		0 16 0.0		9 37 24.3	0 6 0.0	1 36 2.8				1 53 1.9	1 15 6.7		
Economics: Microeconomics	80 188	42.6		46 51 90.2	33 74 44.6				*1 *				*1 *								0 7 0.0												
English Language & Composition	706 2587	27.3	5 36 13.9	202 243 83.1	72 86 83.7	14 25 56.0	13 114 11.4	0 7 0.0	4 68 5.9	82 88 93.2	9 101 8.9	9 74 12.2		1 53 1.9	1 52 1.9	3 87 3.4	74 95 77.9		2 36 5.6	2 67 3.0	0 16 0.0	1 91 1.1	0 21 0.0		13 124 10.5	3 84 3.6	13 116 11.2	2 37 5.4		9 48 18.8	6 36 16.7		
English Literature & Composition	496 1867	26.6	1 32 3.1	166 204 81.4	59 80 73.8	13 44 29.5	4 52 7.7	* 1 *	3 74 4.1	63 69 91.3		4 53 7.5		1 17 5.9	2 67 3.0	5 31 16.1	52 83 62.7		1 43 2.3	1 79 1.3	0 29 0.0	6 63 9.5	0 13 0.0		11 68 16.2	1 59 1.7	3 84 3.6	0 6 0.0	* 1 *	4 44 9.1	4 24 16.7		
Environmental Science	186 667	27.9		52 80 65.0	16 17 94.1		0 20 0.0			* 1 *	4 47 8.5	0 19 0.0	0 9 0.0		1 37 2.7	0 44 0.0			0 32 0.0					1 18 5.6	0 10 0.0	12 38 31.6	0 16 0.0			0 8 0.0			

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	N Exams Taken																																
	% Scoring 3 or Higher																																
European History	35 112	31.3	0 12 0.0	* 4 *	5 5 100.0					* 1 *	0 10 0.0	7 14 50.0																		0 5 0.0			
French Language	19 47	40.4		14 15 93.3	0 8 0.0					* 3 *														* 1 *									
French Literature																																	
German Language	11 16	68.8		7 11 63.6						* 1 *																							
Government & Politics: Comparative	2 93	2.2		* 2 *											0 16 0.0																		
Government & Politics: United States	377 1529	24.7		176 246 71.5	26 78 33.3		0 21 0.0		0 30 0.0	38 55 69.1				0 98 0.0		26 67 38.8			0 38 0.0	2 20 10.0	0 18 0.0	0 20 0.0	18 176 10.2	9 37 24.3	0 99 0.0	1 35 2.9	0 15 0.0				1 52 1.9	1 15 6.7	
Human Geography	302 1521	19.9	0 19 0.0	25 31 80.6	82 147 55.8	13 114 11.4						8 19 42.1		0 32 0.0	1 62 1.6			* 1 *	2 100 2.0				0 11 0.0	95 497 19.1			6 10 60.0			20 85 23.5	2 27 7.4	0 13 0.0	
Italian Language & Culture																																	

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	N Exams Taken																																	
	% Scoring 3 or Higher																																	
Japanese Language & Culture	5 10	50.0		5 7 71.4																														
Latin: Literature																																		
Latin: Vergil	3 16	18.8		0 9 0.0	* 2 *																													
Music Theory	33 70	47.1		9 16 56.3										* 1 *		20 20 100.0										0 12 0.0	* 4 *							
Physics B	130 343	37.9	1 13 7.7	61 77 79.2		0 33 0.0				32 34 94.1	1 14 7.1		0 18 0.0	0 31 0.0		9 10 90.0		0 17 0.0	0 17 0.0								0 22 0.0				6 12 50.0			
Physics C: Electricity & Magnetism	31 51	60.8		13 16 81.3	11 18 61.1					* 4 *																								
Physics C: Mechanics	44 71	62.0		16 17 94.1	13 18 72.2					* 4 *									* 1 *						1 10 10.0									
Psychology	229 382	59.9		111 128 86.7						39 52 75.0	0 14 0.0			* 2 *	* 1 *									0 6 0.0	* 1 *							1 19 5.3	4 20 20.0	

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	N Exams Taken																																
	% Scoring 3 or Higher																																
Spanish Language	1271 2380	53.4	54 140	72 111	20 26	46 73	134 316		73 111	45 45	33 46	84 108		15 39	24 60	31 37	10 23		9 16	21 32	3 9	20 30	0 17		46 60	26 71	93 243	3 6		103 139	31 46	14 22	
			38.6	64.9	76.9	63.0	42.4		65.8	100.0	71.7	77.8		38.5	40.0	83.8	43.5		56.3	65.6	33.3	66.7	0.0		76.7	36.6	38.3	50.0		74.1	67.4	63.6	
Spanish Literature	98 185	53.0	4 12	11 36	0 5		27 29		10 24			8 9				5 6									3 8		6 20				9 13		
			33.3	30.6	0.0		93.1		41.7			88.9				83.3									37.5		30.0				69.2		
Statistics	229 486	47.1	0 12	118 142	44 60		1 13		1 20	25 25	0 11	9 14							0 36	1 14					*		9 18	1 5			0 11		
			0.0	83.1	73.3		7.7		5.0	100.0	0.0	64.3							0.0	7.1					*		50.0	20.0			0.0		
United States History	458 2238	20.5	1 43	218 248	48 84	* 4	1 132	0 5	2 46	64 64	0 6	9 72		1 54	1 83	4 78	25 95		2 23	1 55	1 23	1 80	0 18		3 72	0 89	8 81	0 20			4 57	1 21	
			2.3	87.9	57.1	*	0.8	0.0	4.3	100.0	0.0	12.5		1.9	1.2	5.1	26.3		8.7	1.8	4.3	1.3	0.0		4.2	0.0	9.9	0.0			7.0	4.8	
World History	543 2941	18.5	0 71	154 177	74 128	10 117	1 164		9 60	70 80	0 101	10 82		0 32	1 91	2 93	17 129		1 38	1 77	0 9	1 51	0 18		51 349	5 73	0 65	16 40			9 71	0 9	
			0.0	87.0	57.8	8.5	0.6		15.0	87.5	0.0	12.2		0.0	1.1	2.2	13.2		2.6	1.3	0.0	2.0	0.0		14.6	6.8	0.0	40.0			12.7	0.0	
TOTAL	6657 21347	31.2	69 452	2031 2576	579 940	97 378	187 1013	0 13	115 552	834 971	51 383	151 533	0 11	18 306	32 680	62 454	288 630	*	17 375	42 480	7 143	29 353	0 140	176 1148	119 574	30 529	172 779	8 110	*	123 224	95 557	33 208	
			15.3	78.8	61.6	25.7	18.5	0.0	20.8	85.9	13.3	28.3	0.0	5.9	4.7	13.7	45.7	*	4.5	8.8	4.9	8.2	0.0	15.3	20.7	5.7	22.1	7.3	*	54.9	17.1	15.9	

AP Exam Results of High School Students (9th thru 12th Grades and Grade Level Not Indicated) by Exam and by Campus
Reported as Number of Students Who Scored 3 or Higher Versus Number of Exams Taken (continued)

[illegible]

Data from the College Board AP datafile (August 23, 2011)

AP Exam Results of High School Students (9th thru 12th Grades and Grade Level Not Indicated) by Exam and by Campus
Reported as Number of Students Who Scored 3 or Higher Versus Number of Exams Taken (continued)

[illegible]

Data from the College Board AP datafile (August 23, 2011)

**AP Exam Results of High School Students (9th thru 12th Grades and Grade Level Not Indicated) by Exam and by Campus
Reported as Number of Students Who Scored 3 or Higher Versus Number of Exams Taken (continued)**

[illegible]

Data from the College Board AP datafile (August 23, 2011)

AP Exam Results of High School Students (9th thru 12th Grades and Grade Level Not Indicated) by Exam and by Campus
Reported as Number of Students Who Scored 3 or Higher Versus Number of Exams Taken (continued)

[illegible]

Data from the College Board AP datafile (August 23, 2011)

AP Exam Results of High School Students (9th thru 12th Grades and Grade Level Not Indicated) by Exam and by Campus
Reported as Number of Students Who Scored 3 or Higher Versus Number of Exams Taken (continued)

[illegible]

Appendix B: 2011 AP Course and Exam Data by Campus, Grades 9–12 (Duplicated Count)

School	Grade 10-12 Enroll.	AP Courses Offered	AP Course Enroll.	N Comp. AP Course	% Comp. AP Course (of AP Enr.)	N Exams Taken	Rate of Exams Taken (by AP Comp.)	N Exams Score 3+	Rate of Exams 3+ of AP Comp.)
Austin	1,258	15	347	312	89.9	452	144.9	69	22.1
Bellaire [†]	2,439	19	2,189	2,152	98.3	2,576	119.7	2,031	94.4
Carnegie	297	24	927	867	93.5	940	108.4	579	66.8
Challenge	317	2	273	231	84.6	378	163.6	97	42.0
Chavez	1,745	17	805	726	90.2	1,013	139.5	187	25.8
CLC	183	2	12	12	100.0	13	108.3	0	
Davis	1,107	12	483	444	91.9	552	124.3	115	25.9
DeBakey	626	15	1,013	984	97.1	971	98.7	834	84.8
East Early Col.	313	8	349	305	87.4	383	125.6	51	16.7
Eastwood	255	14	346	311	89.9	533	171.4	151	48.5
Empowerment	9	2	11	11	100.0	11	100.0	0	
E-STEM C	89	4	155	119	76.8	306	257.1	18	15.1
E-STEM W	38	1	38	38	100.0	0		0	
Furr	504	11	753	639	84.9	680	106.4	32	5.0
Houston MST	1,737	12	535	482	90.1	480	99.6	42	8.7
HSLECJ	396	11	572	513	89.7	454	88.5	62	12.1
HSPVA	465	11	696	683	98.1	630	92.2	288	42.2
International Ac.	261	10	366	326	89.1	375	115.0	17	5.2
Int'l Sharpstown	238	11	400	363	90.8	366	100.8	38	10.5
Jones	373	8	150	149	99.3	143	96.0	7	4.7
Jordan	788	7	359	343	95.5	353	102.9	29	8.4
Kashmere	364	7	154	152	98.7	140	92.1	0	
Lamar [†]	2,185	5	1,365	1,310	96.0	1,148	87.6	176	13.4
Lee	1,058	16	490	461	94.1	574	124.5	119	25.8
Madison	1,505	12	608	574	94.4	529	92.2	30	5.2
Milby	1,474	16	601	553	92.0	779	140.9	172	31.1
Mt. Carmel	198	7	95	93	97.9	110	118.3	8	8.6
Reagan	1,254	21	601	564	93.8	557	98.8	95	16.8
North EC HS	183	2	109	90	82.6	224	248.9	123	136.7
Scarborough	449	10	212	204	96.2	208	102.0	33	16.2
Sharpstown	796	11	467	444	95.1	451	101.6	13	2.9
South EC HS	49	1	62	62	100.0	62	100.0	*	1.6
Sterling	687	12	282	258	91.5	254	98.4	9	3.5
Waltrip	1,175	15	665	614	92.3	541	88.1	97	15.8
Washington	586	13	327	286	87.5	255	89.2	50	17.5
Westbury	1,454	18	693	607	87.6	861	141.8	121	19.9
Westside	2,158	28	2,278	2,154	94.6	2,258	104.8	949	44.1
Wheatley	676	10	258	241	93.4	200	83.0	*	1.2
Worthing	638	11	353	318	90.1	342	107.5	5	1.6
Yates	776	12	325	300	92.3	243	81.0	6	2.0
Total*	31,103		20,724	19,295	93.1	21,345**	110.6	6,657	34.5

Note: Exam and course counts presented are duplicated counts. A student may take more than one AP exam or course.

[†] Bellaire and Lamar high schools offer the International Baccalaureate (IB) Program.

*Not a sum of column values. Total represents the number of different AP courses offered districtwide.

**21,345 total excludes 2 exams taken by students whose campus did not offer an AP course.

Appendix C: AP Scholar Awards 2010 and 2011

	2010					2011				
Campus	Scholar	Honor	Distinction	National	Total	Scholar	Honor	Distinction	National	Total
Bellaire	60	45	61	5	171	122	56	193	64	435
Carnegie	16	10	5		31	59	13	31	9	112
Challenge						5	2			7
Chavez	4				4	5				5
Davis							2			2
DeBakey	16	3	2	1	22	54	34	64	18	170
East ECC						3				3
Eastwood						9		1		10
Furr							1			1
HSLECJ	2				2	5	1	1		7
HSPVA	9	6	2		17	26	5	14	2	47
Houston MST						3	1			4
Int'l @ Sharp.						1	1			2
Jones						1				1
Jordan						1				1
Lee	1				1	13	2	2	1	18
Milby	1				1	19	3	1		23
Mt. Carmel							1			1
Reagan	1				1	9	1	1	1	12
Scarborough						4				4
Sharpstown	1				1					
Waltrip	1	1			2	12				12
Washington						6	1	1		8
Westbury						5	1	2		8
Westside	35	13	21	3	72	111	20	39	6	176
Yates						1				1
HISD	147	78	91	9	325	474	145	350	101	1,070

- 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, **and** scores of 3 or higher on five or more of these exams; and
- National AP Scholar: Granted to students in the United States who receive an average score of at least 4 on all AP Exams taken, **and** scores of 4 or higher on eight or more of these exams.