



Profile Report - State

Graduating Class 2018

Pennsylvania



New to your 2018 Profile Report

Though ACT will continue to report English, mathematics, reading, and science subject scores, beginning in September 2016, subscores such as rhetorical skills and arts/literature will be omitted. Instead, a comprehensive set of reporting categories aligned with ACT College and Career Readiness Standards and other standards that target college and career readiness will be included. This change will make it easier for students, parents, and educators to gain deeper insight into students' performance and better understand strengths and areas for improvement in each subject.

In this report, reporting category outcomes indicate the percentage of students with reporting category scores falling within associated ACT Readiness Ranges. These ranges reflect where a student who has met an associated ACT College Readiness Benchmark would typically perform in each reporting category.

This report includes percentage of students meeting/exceeding the ACT College Readiness Benchmark for English Language Arts (ELA). This benchmark reflects a score of 20.

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We are pleased to provide this 2018 Graduating Class ACT Profile Report. This report summarizes the preparation and performance of your 2018 graduates who took the ACT as sophomores, juniors, or seniors under standard- or extended-time conditions and achieved a college reportable composite score. The most recent set of test information is used in your report for students testing more than once.

This report focuses on:

Performance - student test performance in the context of college readiness

Access - number of your graduates exposed to college entrance testing and the percent of race/ethnicity participation

Course Selection - percent of students pursuing a core curriculum

Course Rigor - impact of rigorous coursework on achievement

College Readiness - percent of students meeting ACT College Readiness Benchmark Scores in each content area

Awareness - extent to which student aspirations match performance

Articulation - colleges and universities to which your students send test results

Each year, test data for a school, district, and the state represents a different cohort of students. ACT encourages educators to focus on trends (3, 5, 10 years), not year-to-year changes. Such changes can represent normal – even expected – fluctuations. On the other hand, trend lines offer more insight into what is happening in a school, district, or the state.

Furthermore, ACT encourages educators to measure student performance in the context of college readiness measures. The focus should be on the number and percentage of students who met or exceeded ACT's College Readiness Benchmark Scores, a measure that is much more meaningful and understandable than an average composite score for a group of students.

The ACT is a curriculum-based measure of college readiness. ACT components include:

- Tests of academic achievement in English, math, reading, science, STEM, and (optional) ELA and writing
- High school grade and course information
- Student Profile Section
- Career Interest Inventory

The ACT:

Every few years, ACT conducts the **ACT National Curriculum Survey** to ensure its curriculum-based assessment tools accurately measure the skills high school teachers teach and instructors of entry-level college courses expect. The ACT is the only college readiness test designed to reflect the results of such a survey.

ACT's **College and Career Readiness Standards** are sets of statements intended to help students, parents and educators understand the meaning of test scores. The standards relate test scores to the types of skills needed for success in high school and beyond. They serve as a direct link between what students have learned and what they are ready to do next. The ACT is the only college readiness test for which scores can be tied directly to standards. College and Career Readiness Standards to the Classroom interpretive guides can be found at www.act.org/content/act/en/education-and-career-planning/college-and-career-readiness-standards.html.

Only the ACT reports **College Readiness Benchmark Scores** – A benchmark score is the minimum score needed on an ACT subject-area test to indicate a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in the corresponding credit-bearing college courses, which include English Composition, Algebra, Social Science, Biology, STEM and ELA. These scores were empirically derived based on the actual performance of students in college.

College Course/Course Area	ACT Score	Benchmark Score
English Composition	English	18
Algebra	Mathematics	22
Social Sciences	Reading	22
Biology	Science	23
STEM	STEM	26
ELA	ELA	20

For more information, go to www.act.org

How to Improve Scores and Increase College Readiness

43% of your students met all four ACT College Readiness Benchmark Scores (Table 1.1). To improve students' scores and increase the percentage of students identified as college ready, ACT suggests:

PROVIDING ACCESS FOR ALL STUDENTS TO TAKE THE ACT: 27,694 of your students are included in this report (the 'cohort'). Increasing access insures that more students have the opportunity to consider college and allows the reader to use this report to evaluate how well courses and instructional programs are preparing students for college and work.

MAKING CORE CURRICULUM A PRIORITY: Emphasize the need for all students to develop college and work ready skills, regardless of postsecondary aspirations. 81% of the students in the cohort reported taking courses that would be considered 'Core or More' (Table 1.4).

MAKING SURE STUDENTS ARE TAKING THE RIGHT KINDS OF COURSES: Table 3.8 reports 2% of the cohort took less than three years of math courses. Of these students, 14% were college ready. 5% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 13% of these students were college ready. In comparison, 64% of the students who took 3 or more years of math beyond Algebra I, Algebra II, and Geometry were college ready. Getting more students ready for Algebra prior to 9th grade will increase the chances that students will be prepared for and take advanced-level math courses.

Similarly, Table 3.8 reports 4% of the cohort took less than three years of natural science courses. 27% of these students were college ready. In comparison, 56% of students who took at least three years of science coursework were college ready.

EVALUATING RIGOR OF COURSES: Table 3.1 reports the percentage of students falling in each of the ACT College and Career Readiness Standards score ranges. For example, approximately 30% of the cohort fall into the lowest three Mathematics score ranges. To increase these students' achievement, identify the standards they should focus on next by accessing ACT's College and Career Readiness Standards at www.act.org/content/act/en/education-and-career-planning/college-and-career-readiness-standards.html.

PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS: Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether, among students with similar aspirations, academic performance is consistent across racial/ethnic groups.

For more information on interpreting data in this report, or to learn how ACT can help your students improve their readiness for college and the workplace, contact ACT Customer Service at 319-337-1365 or customerservices@act.org.

Section I

Executive Summary

Figure 1.1. Average Composite Scores: 5 Years of Testing*

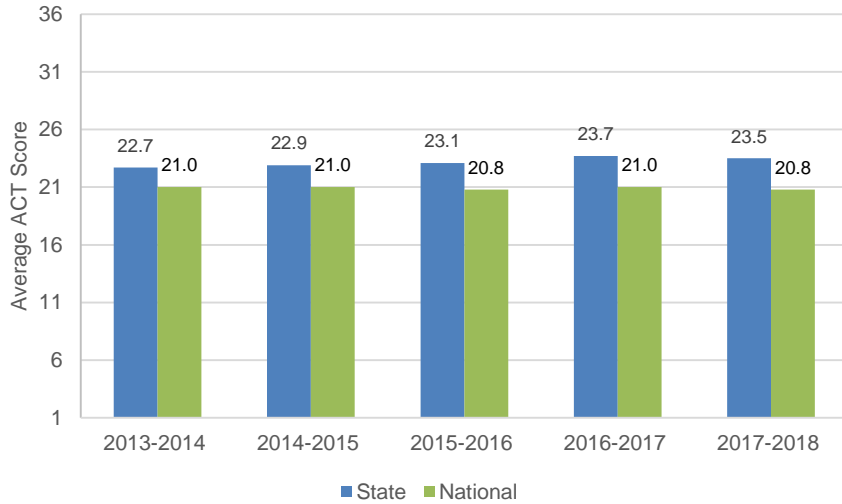


Figure 1.2. Percent Meeting 3 or 4 Benchmarks: 5 Years of Testing*

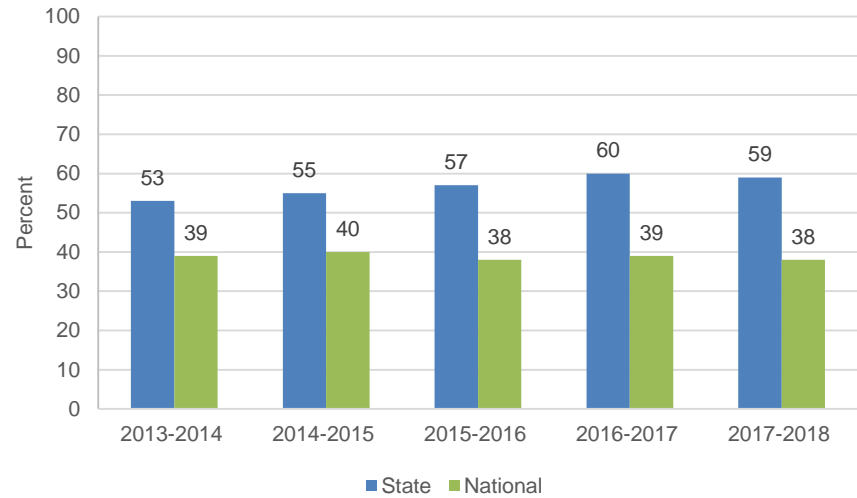


Figure 1.3. Percent Meeting STEM Benchmark: 5 Years of Testing*

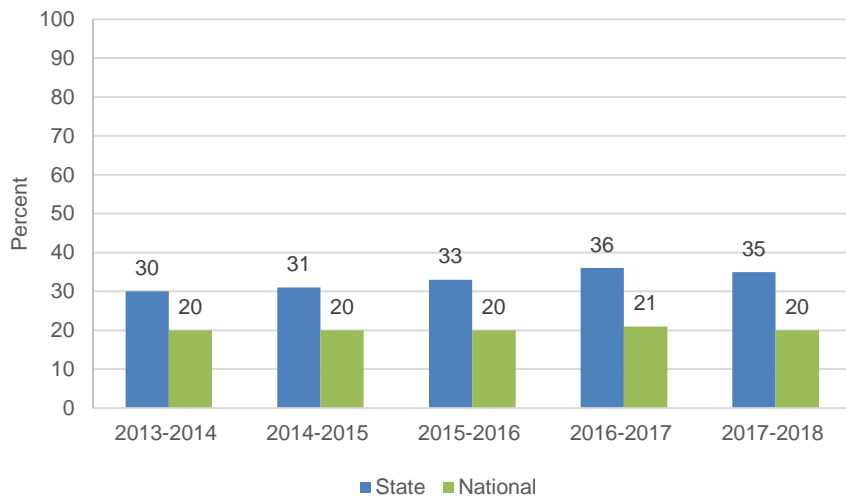
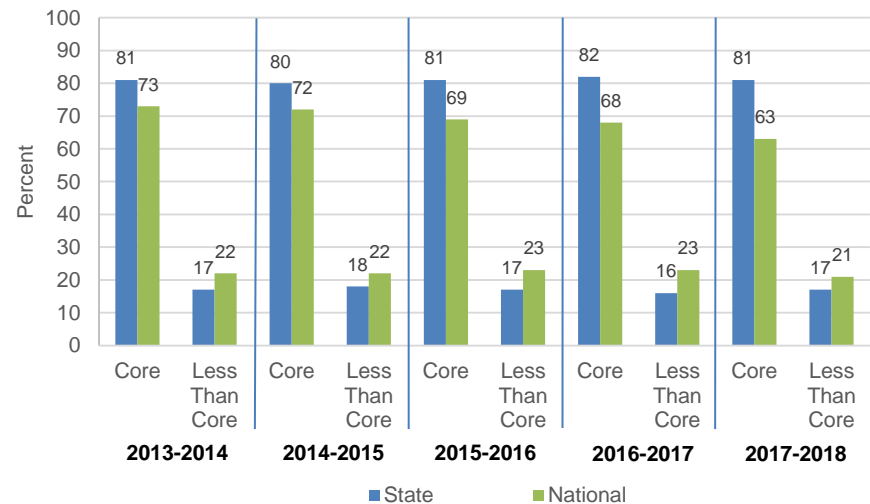


Figure 1.4. Percent Taking A Core Curriculum: 5 Years of Testing*



* Missing columns in above graphs reflect years in which no students were tested.

Total Students in Report: 27,694

Table 1.1. Five Year Trends—Percent of Students Who Met College Readiness Benchmarks

Year	Number of Students Tested		Percent Who Met Benchmarks									
	State	National	English		Mathematics		Reading		Science		Met All Four	
			State	National	State	National	State	National	State	National	State	National
2014	27,136	1,845,787	75	64	59	43	55	44	49	37	38	26
2015	29,776	1,924,436	76	64	58	42	59	46	51	38	40	28
2016	31,342	2,090,342	77	61	61	41	61	44	52	36	42	26
2017	30,987	2,030,038	80	61	62	41	66	47	55	37	45	27
2018	27,694	1,914,817	80	60	60	40	64	46	55	36	43	27

Table 1.2. Five Year Trends—Average ACT Scores

Year	Number of Students Tested		Average ACT Scores									
	State	National	English		Mathematics		Reading		Science		Composite	
			State	National	State	National	State	National	State	National	State	National
2014	27,136	1,845,787	22.1	20.3	22.8	20.9	23.0	21.3	22.2	20.8	22.7	21.0
2015	29,776	1,924,436	22.5	20.4	22.8	20.8	23.2	21.4	22.5	20.9	22.9	21.0
2016	31,342	2,090,342	22.6	20.1	23.0	20.6	23.6	21.3	22.8	20.8	23.1	20.8
2017	30,987	2,030,038	23.4	20.3	23.4	20.7	24.2	21.4	23.3	21.0	23.7	21.0
2018	27,694	1,914,817	23.3	20.2	23.2	20.5	24.0	21.3	23.1	20.7	23.5	20.8

Table 1.3. Five Year Trends—Average ACT Scores Nationwide

Year	Number of Students Tested	Average ACT Scores				
		English	Mathematics	Reading	Science	Composite
2014	1,845,787	20.3	20.9	21.3	20.8	21.0
2015	1,924,436	20.4	20.8	21.4	20.9	21.0
2016	2,090,342	20.1	20.6	21.3	20.8	20.8
2017	2,030,038	20.3	20.7	21.4	21.0	21.0
2018	1,914,817	20.2	20.5	21.3	20.7	20.8

Total Students in Report: 27,694

Table 1.4. Five Year Trends—Average ACT Scores by Level of Preparation

Year	Number of Students Tested		Percent ²		Average ACT Scores									
	Core or More ¹	Less than Core	Core or More	Less than Core	English		Mathematics		Reading		Science		Composite	
					Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core
2014	22,017	4,630	81	17	22.4	21.2	23.1	22.1	23.2	22.1	22.5	21.5	22.9	21.9
2015	23,936	5,227	80	18	22.8	21.6	23.1	22.1	23.5	22.3	22.8	21.8	23.1	22.1
2016	25,349	5,357	81	17	22.8	21.7	23.3	22.2	23.8	22.7	23.1	22.0	23.4	22.3
2017	25,519	4,929	82	16	23.6	22.4	23.6	22.7	24.4	23.2	23.5	22.4	23.9	22.8
2018	22,469	4,607	81	17	23.6	22.2	23.4	22.3	24.3	23.0	23.4	22.3	23.8	22.6

¹"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

²Percent of all students tested. Numbers will not add up to 100% due to student non-response.

Table 1.5. Five Year Trends—Percent and Average Composite Score by Race/Ethnicity

Race/Ethnicity	2014			2015			2016			2017			2018		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
All Students	27,136	100	22.7	29,776	100	22.9	31,342	100	23.1	30,987	100	23.7	27,694	100	23.5
Black/African American	2,800	10	17.0	2,887	10	17.1	2,918	9	17.5	2,747	9	18.0	2,473	9	17.8
American Indian/Alaska Native	61	0	19.3	60	0	18.7	51	0	18.7	49	0	19.5	41	0	21.0
White	19,517	72	23.5	21,164	71	23.7	22,447	72	23.9	21,971	71	24.4	19,645	71	24.2
Hispanic/Latino	1,227	5	20.3	1,462	5	20.2	1,451	5	21.0	1,469	5	21.8	1,394	5	21.6
Asian	1,332	5	23.6	1,547	5	24.5	1,660	5	24.6	1,782	6	25.4	1,551	6	25.8
Native Hawaiian/Other Pacific Islander	29	0	22.2	21	0	21.1	41	0	23.5	22	0	23.1	23	0	20.7
Two or more races	741	3	21.6	865	3	22.2	935	3	21.9	949	3	23.1	854	3	23.5
Prefer not to respond/No response	1,429	5	23.4	1,770	6	23.8	1,839	6	23.7	1,998	6	24.0	1,713	6	23.3

Total Students in Report: 27,694

Table 1.6. Five Year Trends—Achievement in STEM¹

Year	All Tested Students						Students Meeting STEM Benchmarks			
	Number of Students Tested		Avg. STEM Score		Percent Meeting STEM Benchmark		Avg. Mathematics Score		Avg. Science Score	
	State	National	State	National	State	National	State	National	State	National
2014	27,136	1,845,787	22.8	21.1	30	20	29.0	28.7	28.2	28.3
2015	29,776	1,924,436	22.9	21.1	31	20	28.9	28.7	28.4	28.4
2016	31,342	2,090,342	23.2	20.9	33	20	28.8	28.7	28.6	28.6
2017	30,987	2,030,038	23.6	21.1	36	21	29.0	28.7	28.7	28.7
2018	27,694	1,914,817	23.4	20.9	35	20	29.0	28.8	28.9	28.8

¹The STEM score describes students' overall proficiency in mathematics and science.

Table 1.7. Proficiency In Understanding Complex Texts¹

Year	Text Complexity Proficiency Level																	
	Below Proficient						Proficient						Above Proficient					
	N		Percent		Avg. Reading		N		Percent		Avg. Reading		N		Percent		Avg. Reading	
State	National	State	National	State	National	State	National	State	National	State	National	State	National	State	National	State	National	
2014	0	0	.	.	.	.	0	0	.	.	.	.	0	0	.	.	.	.
2015	0	0	.	.	.	.	0	0	.	.	.	.	0	0	.	.	.	.
2016	7,220	485,762	23	23	16.9	17.0	6,019	322,548	19	15	23.7	23.6	5,198	235,380	17	11	30.5	30.3
2017	9,982	999,708	32	49	17.4	16.2	10,593	596,096	34	29	24.0	23.4	10,306	427,075	33	21	31.0	30.8
2018	9,629	1,010,339	35	53	17.4	16.3	8,909	492,937	32	26	24.0	23.6	9,156	411,541	33	21	31.2	31.0

¹The text complexity indicator, beginning in Fall 2015, represents students' progress toward understanding complex written material often encountered in college and careers.

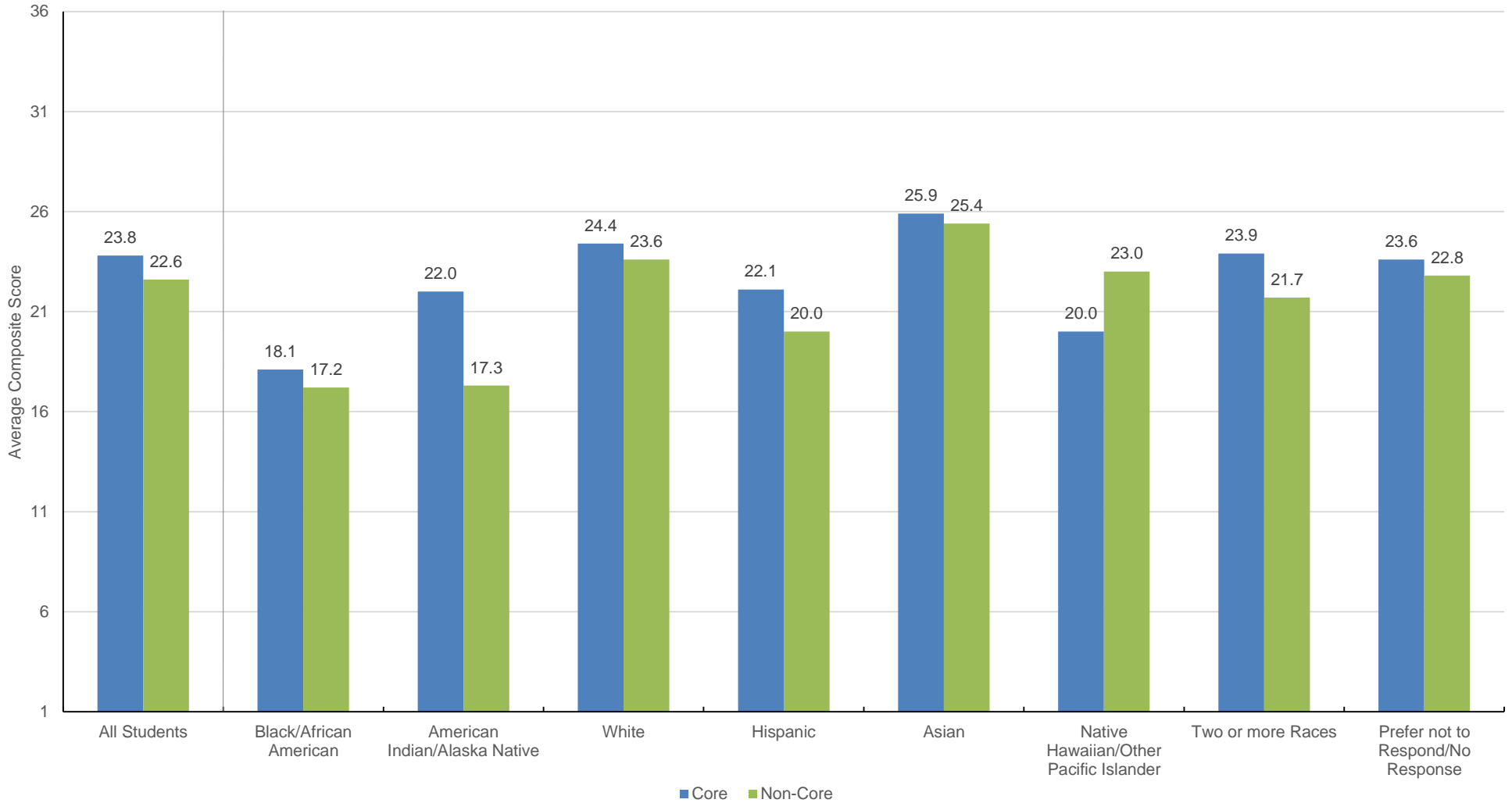
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Section II

Academic Achievement

Total Students in Report: 27,694

Figure 2.1. Average ACT Composite Scores by Race and Core Curriculum Status*



*Missing columns reflect combinations of race/ethnicity and core course-taking status in which one or both indicators are missing.

Total Students in Report: 27,694

Table 2.1. ACT Score Distributions, Cumulative Percents (CP¹), and Score Averages

ACT Scale Score	English		Mathematics		Reading		Science		Composite		STEM		ELA ²		ACT Scale Score
	N	CP	N	CP	N	CP	N	CP	N	CP	N	CP	N	CP	
36	466	100	149	100	519	100	378	100	77	100	159	100	4	100	36
35	1,294	98	431	99	998	98	365	99	373	99	355	99	30	99	35
34	1,016	94	482	98	1,178	95	564	97	545	98	409	98	117	99	34
33	619	90	414	96	974	90	575	95	711	96	525	97	248	99	33
32	658	88	486	95	1,191	87	346	93	789	94	674	95	327	97	32
31	645	85	681	93	1,070	82	819	92	913	91	700	92	548	95	31
30	743	83	916	90	1,075	79	870	89	1,087	88	891	90	631	90	30
29	830	80	1,083	87	705	75	771	86	1,168	84	1,099	87	675	86	29
28	674	77	1,555	83	1,127	72	1,103	83	1,296	80	1,384	83	663	81	28
27	1,203	75	2,052	78	961	68	1,100	79	1,465	75	1,525	78	718	76	27
26	1,294	71	2,017	70	1,167	65	1,396	75	1,616	70	1,861	72	736	70	26
25	1,608	66	1,859	63	1,259	60	2,104	70	1,767	64	2,084	65	755	65	25
24	2,025	60	1,736	56	1,738	56	2,171	62	1,877	57	2,056	58	839	59	24
23	1,955	53	1,506	50	1,741	50	2,609	55	1,954	51	1,803	50	900	53	23
22	1,791	46	1,248	45	1,955	43	2,108	45	1,891	44	1,778	44	896	46	22
21	1,782	39	1,068	40	1,371	36	1,876	38	1,719	37	1,646	38	808	39	21
20	1,554	33	1,477	36	1,440	31	1,495	31	1,592	30	1,622	32	751	33	20
19	965	27	1,202	31	1,430	26	1,554	25	1,377	25	1,582	26	700	28	19
18	902	24	1,692	26	969	21	1,229	20	1,266	20	1,517	20	577	23	18
17	824	20	1,725	20	1,175	17	1,119	15	1,069	15	1,244	15	499	18	17
16	1,094	17	1,790	14	797	13	848	11	972	11	993	10	439	15	16
15	1,062	14	1,088	8	691	10	609	8	737	8	827	6	343	11	15
14	773	10	752	4	779	8	613	6	618	5	516	3	296	9	14
13	492	7	195	1	438	5	395	4	445	3	246	2	251	6	13
12	381	5	51	1	378	3	259	2	240	1	129	1	205	5	12
11	458	4	22	1	311	2	166	2	85	1	40	1	151	3	11
10	330	2	8	1	123	1	136	1	25	1	18	1	105	2	10
9	129	1	2	1	57	1	55	1	14	1	9	1	72	1	9
8	71	1	3	1	32	1	24	1	4	1	2	1	46	1	8
7	31	1	0	1	18	1	17	1	2	1	0	1	24	1	7
6	18	1	2	1	14	1	14	1	0	1	0	1	7	1	6
5	6	1	0	1	9	1	1	1	0	1	0	1	4	1	5
4	1	1	2	1	3	1	2	1	0	1	0	1	1	1	4
3	0	1	0	1	1	1	3	1	0	1	0	1	0	1	3
2	0	1	0	1	0	1	0	1	0	1	0	1	0	1	2
1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	1
Avg (SD)	23.3 (6.6)		23.2 (5.5)		24.0 (6.5)		23.1 (5.6)		23.5 (5.5)		23.4 (5.3)		22.9 (5.8)		Avg (SD)

¹ CP is the cumulative percent of students at or below a score point.

² ELA scores are derived only for students with a valid writing score.

Note: Shaded portions of columns identify the students who met/exceeded the ACT College Readiness Benchmark Scores.

Figure 2.2. English Reporting Categories¹

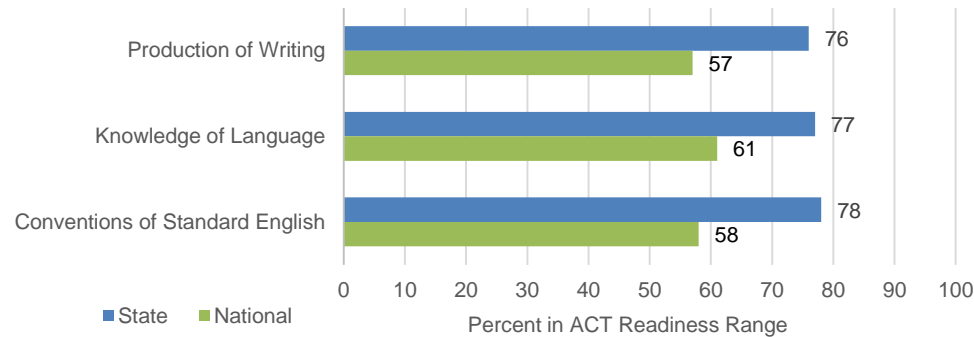


Figure 2.3. Math Reporting Categories¹

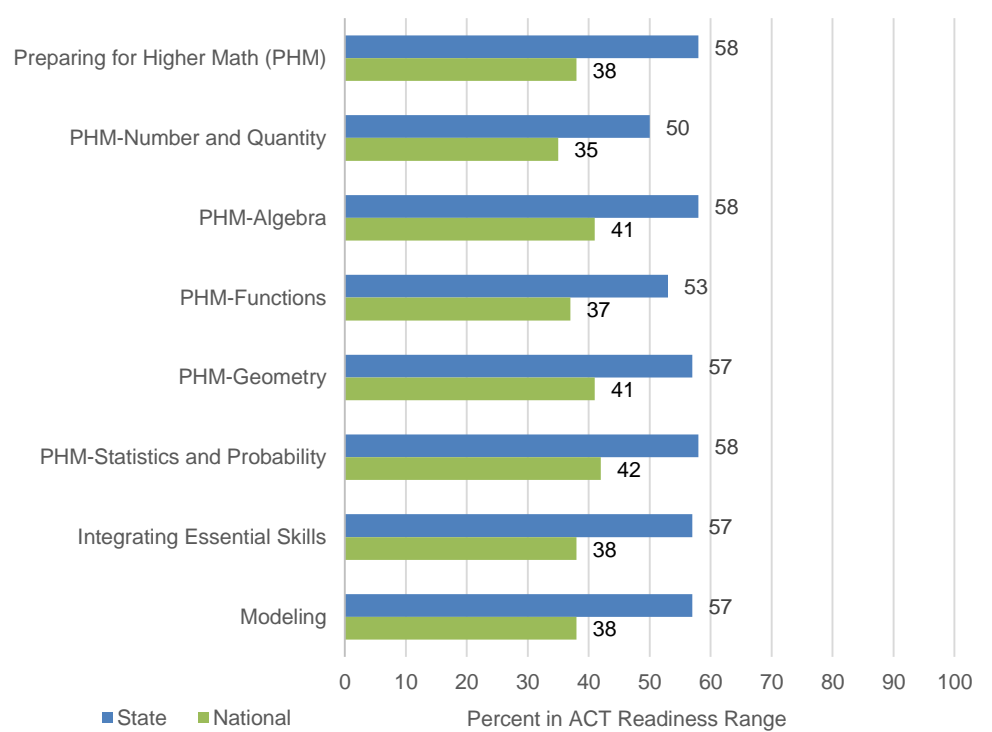


Figure 2.4. Reading Reporting Categories¹

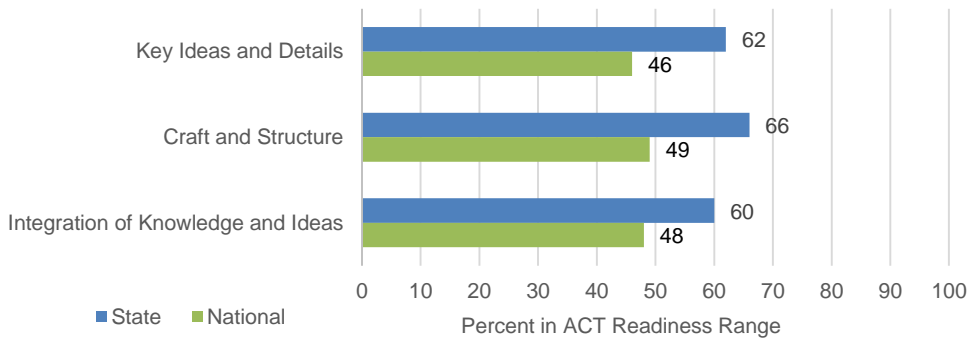
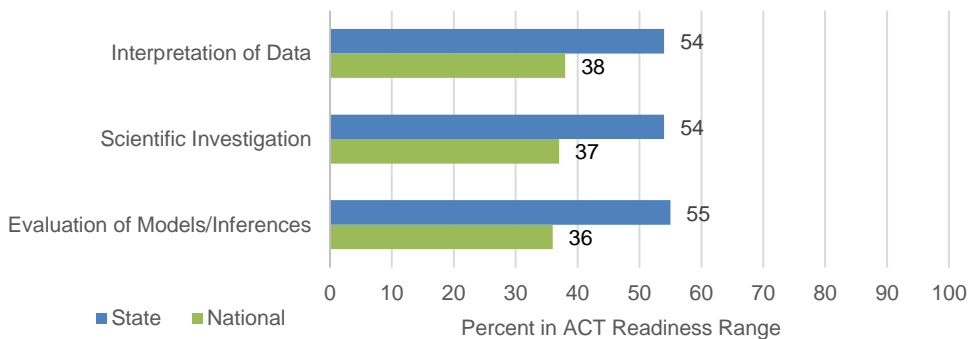


Figure 2.5. Science Reporting Categories¹



The charts on this page show the percent of students whose reporting category scores fall within associated ACT Readiness Ranges. ACT Readiness Ranges reflect where a student who has met a particular subject area's ACT College Readiness Benchmark would typically perform within the associated reporting category.

¹ Reporting Categories are reported only for testing events beginning September 2016.

Total Students in Report: 27,694

Table 2.2. Average ACT Composite Scores for Race/Ethnicity by Level of Preparation

Student Group	Race/Ethnicity	Number of Students Tested	Percent Taking Core or More ¹	Average ACT Composite Score	
				Core or More	Less Than Core
State	All Students	27,694	81	23.8	22.6
	Black/African American	2,473	74	18.1	17.2
	American Indian/Alaska Native	41	78	22.0	17.3
	White	19,645	84	24.4	23.6
	Hispanic/Latino	1,394	76	22.1	20.0
	Asian	1,551	79	25.9	25.4
	Native Hawaiian/Other Pacific Islander	23	65	20.0	23.0
	Two or More Races	854	81	23.9	21.7
	Prefer not/No Response	1,713	67	23.6	22.8
National	All Students	1,914,817	63	22.2	19.0
	Black/African American	243,080	58	17.9	15.9
	American Indian/Alaska Native	15,449	51	18.5	16.4
	White	996,712	67	23.4	20.2
	Hispanic/Latino	307,358	63	19.9	17.5
	Asian	91,899	75	25.4	22.8
	Native Hawaiian/Other Pacific Islander	5,753	53	20.0	16.6
	Two or More Races	85,316	64	22.3	19.4
	Prefer not/No Response	169,250	36	22.6	18.1

¹ "Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

Table 2.3. Average ACT Scores by Race/Ethnicity

Student Group	Race/Ethnicity	N	Percent	English	Mathematics	Reading	Science	Composite	STEM
Black/African American	2,473	9	17.1	17.9	18.3	17.7	17.8	18.0	
American Indian/Alaska Native	41	0	20.1	21.1	21.1	21.2	21.0	21.4	
White	19,645	71	24.1	23.7	24.8	23.8	24.2	24.0	
Hispanic/Latino	1,394	5	21.0	21.2	22.3	21.4	21.6	21.5	
Asian	1,551	6	25.7	26.5	25.2	25.2	25.8	26.1	
Native Hawaiian/Other Pacific Islander	23	0	20.0	20.4	21.6	20.5	20.7	20.7	
Two or More Races	854	3	23.4	22.8	24.2	23.0	23.5	23.2	
Prefer not/No Response	1,713	6	23.1	22.8	24.0	22.7	23.3	23.0	
National	All Students	1,914,817	100	20.2	20.5	21.3	20.7	20.8	20.9
	Black/African American	243,080	13	15.8	16.9	17.3	17.1	16.9	17.3
	American Indian/Alaska Native	15,449	1	15.9	17.4	17.7	17.7	17.3	17.8
	White	996,712	52	21.9	21.7	22.8	22.0	22.2	22.1
	Hispanic/Latino	307,358	16	17.8	18.8	19.3	18.9	18.8	19.1
	Asian	91,899	5	24.1	25.1	24.2	24.1	24.5	24.9
	Native Hawaiian/Other Pacific Islander	5,753	0	17.2	18.4	18.3	18.3	18.2	18.6
	Two or More Races	85,316	4	20.6	20.6	21.8	20.9	21.1	21.0
	Prefer not/No Response	169,250	9	19.0	19.6	20.3	19.8	19.8	19.9

Total Students in Report: 27,694

Table 2.4. Average ACT Composite Scores for Gender by Level of Preparation

Student Group	Gender	Number of Students Tested	Percent Taking Core or More ¹	Average ACT Composite Score	
				Core or More	Less Than Core
State	Males	12,093	81	24.2	22.9
	Females	15,598	81	23.5	22.4
	No Response	3	67	16.5	24.0
National	Males	893,610	61	22.4	18.6
	Females	991,975	66	22.0	19.3
	No Response	29,232	13	18.6	16.6

¹ "Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

Table 2.5. Average ACT Scores by Gender

Student Group	Gender	N	Percent	English	Mathematics	Reading	Science	Composite	STEM
State	Males	12,093	44	23.2	24.1	24.0	23.7	23.9	24.2
	Females	15,598	56	23.4	22.4	24.1	22.7	23.3	22.8
	No Response	3	0	19.3	19.7	17.3	19.7	19.0	20.0
National	Males	893,610	47	19.7	20.9	21.0	20.9	20.8	21.2
	Females	991,975	52	20.7	20.2	21.7	20.6	20.9	20.7
	No Response	29,232	2	16.6	17.6	17.9	17.8	17.6	18.0

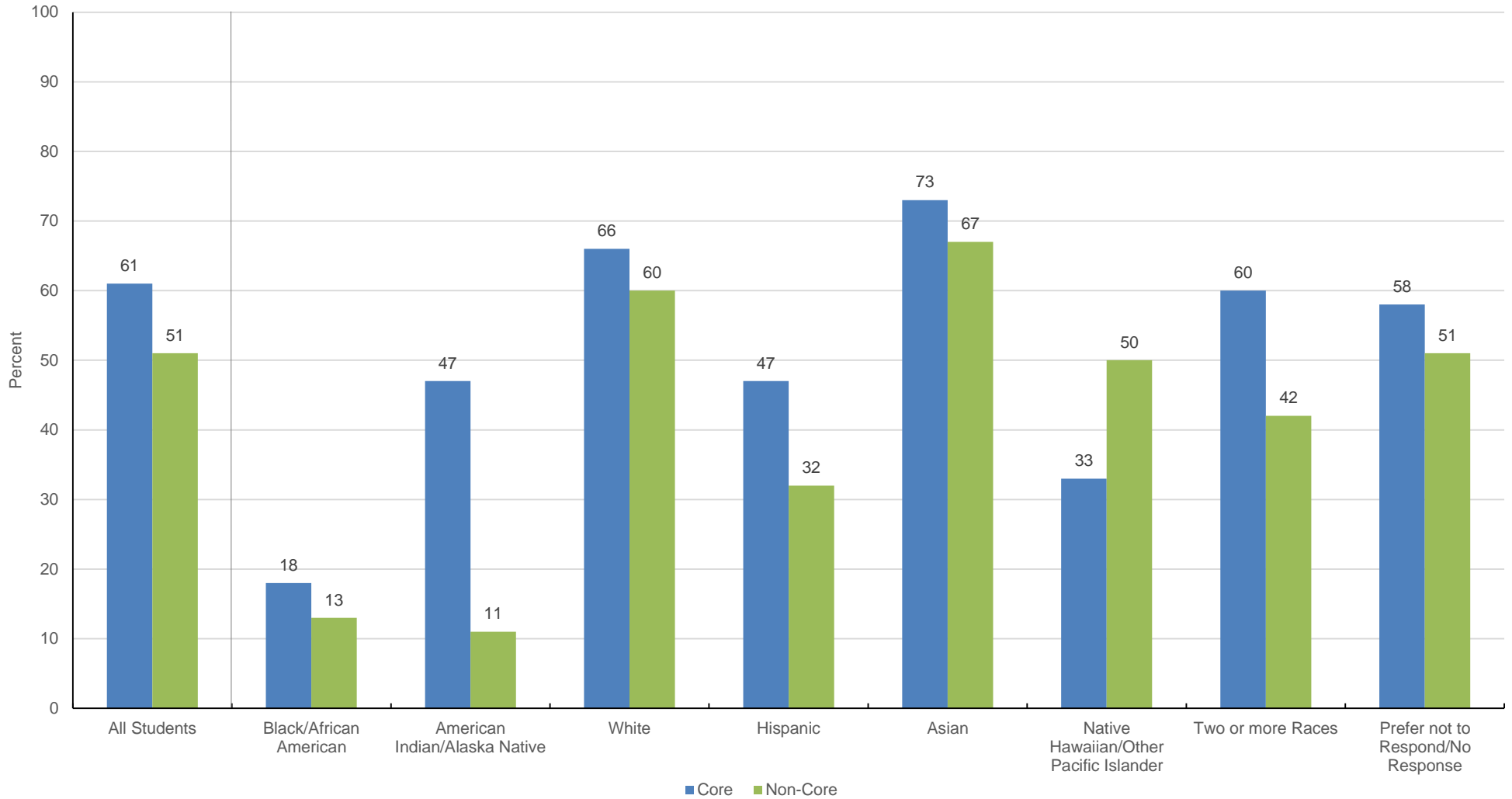
Table 2.6. ACT Score Quartile Values

Quartile	English	Mathematics	Reading	Science	Composite
Q3 (75th Percentile)	28	27	30	26	28
Q2 (50th Percentile)	23	24	24	23	23
Q1 (25th Percentile)	19	18	19	19	20

Section III

College and Career Readiness and the Impact of Course Rigor

Figure 3.1. Percent of Students Meeting 3 or 4 College Readiness Benchmarks by Core College Curriculum Status*



*Missing columns reflect combinations of race/ethnicity and core course-taking status in which one or both indicators are missing.

Total Students in Report: 27,694

Table 3.1. Percent of Students in College and Career Readiness Standards (CCRS) Score Ranges

Student Group	CCRS Range	English		Mathematics		Reading		Science	
		N	%	N	%	N	%	N	%
State	33 to 36	3,395	12	1,476	5	3,669	13	1,882	7
	28 to 32	3,550	13	4,721	17	5,168	19	3,909	14
	24 to 27	6,130	22	7,664	28	5,125	19	6,771	24
	20 to 23	7,082	26	5,299	19	6,507	23	8,088	29
	16 to 19	3,785	14	6,409	23	4,371	16	4,750	17
	13 to 15	2,327	8	2,035	7	1,908	7	1,617	6
	01 to 12	1,425	5	90	0	946	3	677	2
National	33 to 36	143,563	7	58,709	3	156,351	8	75,063	4
	28 to 32	154,254	8	177,068	9	232,703	12	154,978	8
	24 to 27	282,672	15	353,837	18	260,556	14	331,549	17
	20 to 23	411,089	21	324,319	17	433,162	23	513,463	27
	16 to 19	344,616	18	621,963	32	405,666	21	489,899	26
	13 to 15	304,484	16	357,972	19	257,877	13	232,220	12
	01 to 12	274,139	14	20,949	1	168,502	9	117,645	6

Table 3.2. Percent of Students Who Met College Readiness Benchmark Scores by Gender

Student Group	Gender	Percent of Students				Met All Four
		English	Mathematics	Reading	Science	
State	Males	78	66	63	59	48
	Females	81	55	64	51	40
	No Response	67	67	0	33	0
National	Males	57	43	44	38	28
	Females	64	37	48	35	26
	No Response	38	18	25	17	10

Total Students in Report: 27,694

Table 3.3. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity

Student Group	Race/Ethnicity	N	English %	Mathematics %	Reading %	Science %	All Four %	STEM %
State	All Students	27,694	80	60	64	55	43	35
	Black/African American	2,473	41	18	26	14	9	5
	American Indian/Alaska Native	41	61	44	41	37	32	24
	White	19,645	85	65	69	60	48	38
	Hispanic/Latino	1,394	67	45	53	40	30	21
	Asian	1,551	86	80	68	69	58	55
	Native Hawaiian/Other Pacific Islander	23	57	43	43	30	26	17
	Two or More Races	854	79	56	65	52	42	33
	Prefer Not to Respond	1,713	73	55	62	53	44	37
National	All Students	1,914,817	60	40	46	36	27	20
	Black/African American	243,080	32	13	20	11	6	3
	American Indian/Alaska Native	15,449	32	15	23	15	8	5
	White	996,712	72	49	56	46	34	26
	Hispanic/Latino	307,358	46	26	33	22	15	10
	Asian	91,899	77	69	62	59	49	46
	Native Hawaiian/Other Pacific Islander	5,753	41	24	27	21	14	10
	Two or More Races	85,316	63	39	48	37	27	20
	Prefer Not to Respond	169,250	50	32	39	31	23	18

Table 3.4. Likely ACT National Career Readiness Certificate (NCRC) Level Based Upon ACT Composite Score¹

Student Group	ACT NCRC Level ²	N	%	Average Composite
State	Gold or Higher	11,807	43	28.8
	Silver	12,745	46	20.9
	Bronze	2,772	10	14.8
	Needs Improvement	370	1	11.5
National	Gold or Higher	499,653	26	28.6
	Silver	893,864	47	20.3
	Bronze	444,856	23	14.6
	Needs Improvement	76,444	4	11.5

¹ The ACT Composite scores associated with a 50% chance of earning each ACT NCRC level or higher are: 13 for Bronze, 17 for Silver, 25 for Gold, and 35 for Platinum. Based on those cut scores, students who earned an ACT Composite score of less than 13 would be classified as 'Needs Improvement', 13 to 16 as 'Bronze', 17 to 24 as 'Silver', and 25 or above as 'Gold or Higher' in the table above. For comparison, individual student score reports classify those who scored 12-13, 14-17, and 18 and higher as making progress toward Bronze, Silver, and Gold certificates.

² Additional information on the ACT NCRC can be found at www.act.org.

Total Students in Report: 27,694

Table 3.5. College Readiness Benchmark Percent and Average ACT Scores by Overall High School Curriculum

Student Group	Curriculum Taken ¹	N	English		Mathematics		Reading		Science		Composite ⁴		STEM	
			%	Avg	%	Avg	%	Avg	%	Avg	%	Avg	%	Avg
State	Core or More ²	22,469	82	23.6	62	23.4	65	24.3	57	23.4	45	23.8	36	23.6
	Less than Core	4,607	73	22.2	53	22.3	57	23.0	48	22.3	37	22.6	30	22.5
	Missing ³	618	59	20.2	38	20.4	52	22.4	39	21.1	30	21.2	25	21.0
National	Core or More	1,200,072	70	21.8	49	21.7	54	22.7	45	21.9	34	22.2	26	22.1
	Less than Core	402,680	46	18.1	26	18.8	34	19.4	24	19.0	16	19.0	12	19.2
	Missing	312,065	38	16.7	22	18.1	28	18.3	20	18.2	13	18.0	9	18.4

¹ "Curriculum Taken" reflects overall high school curriculum in this table.

² "Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

³ Zero years or no coursework information reported in one or more content areas.

⁴ Composite College Readiness Benchmark % results reflect students who met all four subject-area benchmarks.

Table 3.6. College Readiness Benchmark Percent and Average ACT Scores by Content-Specific Curriculum

Student Group	Curriculum Taken ¹	English			Mathematics			Reading			Science		
		N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
State	Core or More ²	26,615	80	23.4	26,680	61	23.3	23,857	64	24.1	25,968	56	23.3
	Less than Core	487	61	19.6	419	14	17.2	3,248	62	23.8	1,133	27	19.8
	Missing ³	592	60	20.4	595	39	20.5	589	54	22.6	593	40	21.3
National	Core or More	1,527,131	66	21.1	1,528,137	45	21.2	1,430,773	51	22.1	1,389,989	43	21.7
	Less than Core	91,187	34	16.1	83,960	8	16.2	181,701	35	19.7	220,831	18	18.1
	Missing	296,499	39	16.9	302,720	22	18.1	302,343	28	18.4	303,997	20	18.2

¹ "Curriculum Taken" reflects content-specific curriculum in this table.

² "Core or More" results correspond to students taking four or more years of English or three or more years of math, social studies, or natural science, respectively.

For instance, Reading "Core or More" results correspond to students taking three or more years of social studies, regardless of courses taken in other content areas.

³ Zero years or no coursework information reported in the specified content area.

Total Students in Report: 27,694

Table 3.7. College Readiness Benchmark (CRB) Percent and Average ACT Scores by Common Course Patterns

Course Pattern	State				National			
	N	Percent Taking Pattern	Avg ACT English	Percent Who Met Benchmark	N	Percent Taking Pattern	Avg ACT English	Percent Who Met Benchmark
ENGLISH COURSE PATTERN								
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	5,449	20	23.9	82	323,956	17	22.1	72
Eng 9, Eng 10, Eng 11, Eng 12	21,166	76	23.3	80	1,203,175	63	20.8	64
Less than 4 years of English	487	2	19.6	61	91,187	5	16.1	34
Zero years / no English courses reported	592	2	20.4	60	296,499	15	16.9	39
MATHEMATICS COURSE PATTERN								
	N	Percent Taking Pattern	Avg ACT Math	Percent Who Met Benchmark	N	Percent Taking Pattern	Avg ACT Math	Percent Who Met Benchmark
Alg 1, Alg 2, Geom, Trig, & Calc	3,497	13	24.2	72	99,215	5	23.2	62
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,192	8	21.7	51	125,955	7	21.5	51
Alg 1, Alg 2, Geom, & Trig	1,615	6	19.5	29	89,147	5	19.0	27
Alg 1, Alg 2, Geom, & Other Adv Math	2,512	9	19.6	30	321,541	17	19.2	29
Other comb of 4 or more years of Math	14,141	51	25.2	75	609,514	32	23.8	65
Alg 1, Alg 2, & Geom	1,418	5	17.5	13	187,368	10	16.9	10
Other comb of 3 or 3.5 years of Math	1,305	5	21.6	47	95,397	5	19.6	33
Less than 3 years of Math	419	2	17.2	14	83,960	4	16.2	8
Zero years / no Math courses reported	595	2	20.5	39	302,720	16	18.1	22
SOCIAL SCIENCE COURSE PATTERN								
	N	Percent Taking Pattern	Avg ACT Reading	Percent Who Met Benchmark	N	Percent Taking Pattern	Avg ACT Reading	Percent Who Met Benchmark
US Hist, World Hist, Am Gov, & Other Hist	1,924	7	23.7	61	46,135	2	22.2	50
Other comb of 4 or more years Social Science	12,954	47	24.0	64	813,270	42	22.7	54
US Hist, World Hist, & Am Gov	1,899	7	22.9	56	111,031	6	19.7	35
Other comb of 3 or 3.5 years of Social Science	7,080	26	24.7	68	460,337	24	21.7	48
Less than 3 years of Social Science	3,248	12	23.8	62	181,701	9	19.7	35
Zero years / no Social Science courses reported	589	2	22.6	54	302,343	16	18.4	28
NATURAL SCIENCE COURSE PATTERN								
	N	Percent Taking Pattern	Avg ACT Science	Percent Who Met Benchmark	N	Percent Taking Pattern	Avg ACT Science	Percent Who Met Benchmark
Gen Sci ¹ , Bio, Chem, & Phys	16,934	61	23.9	61	705,397	37	22.4	48
Bio, Chem, Phys	3,509	13	24.6	65	193,793	10	23.3	54
Gen Sci ¹ , Bio, Chem	5,250	19	20.9	37	444,093	23	20.1	30
Other comb of 3 years of Natural Science	275	1	20.6	35	46,706	2	18.9	23
Less than 3 years of Natural Science	1,133	4	19.8	27	220,831	12	18.1	18
Zero years / no Natural Science courses reported	593	2	21.3	40	303,997	16	18.2	20

¹Includes General, Physical and Earth Sciences.

Total Students in Report: 27,694

Table 3.8. College Readiness Benchmark (CRB) Percent and Average ACT Scores for Gender by Common Course Patterns

Course Pattern	All Students				Males				Females			
	N	Percent	ACT English	% Who Met Benchmark	N	Percent	ACT English	% Who Met Benchmark	N	Percent	ACT English	% Who Met Benchmark
ENGLISH COURSE PATTERN												
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	5,449	20	23.9	82	2,159	18	23.8	80	3,290	21	23.9	83
Eng 9, Eng 10, Eng 11, Eng 12	21,166	76	23.3	80	9,350	77	23.3	79	11,814	76	23.4	81
Less than 4 years of English	487	2	19.6	61	231	2	19.5	57	255	2	19.7	64
Zero years / no English courses reported	592	2	20.4	60	353	3	19.8	59	239	2	21.3	62
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	3,497	13	24.2	72	1,381	11	24.8	76	2,116	14	23.8	70
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,192	8	21.7	51	721	6	22.0	53	1,471	9	21.5	50
Alg 1, Alg 2, Geom, & Trig	1,615	6	19.5	29	603	5	20.0	35	1,012	6	19.2	25
Alg 1, Alg 2, Geom, & Other Adv Math	2,512	9	19.6	30	854	7	19.7	33	1,657	11	19.5	29
Other comb of 4 or more years of Math	14,141	51	25.2	75	6,910	57	26.1	80	7,230	46	24.3	71
Alg 1, Alg 2, & Geom	1,418	5	17.5	13	565	5	17.7	15	852	5	17.3	12
Other comb of 3 or 3.5 years of Math	1,305	5	21.6	47	521	4	21.8	47	784	5	21.4	47
Less than 3 years of Math	419	2	17.2	14	186	2	17.9	17	233	1	16.7	11
Zero years / no Math courses reported	595	2	20.5	39	352	3	20.8	42	243	2	20.1	35
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	1,924	7	23.7	61	944	8	23.6	60	980	6	23.7	62
Other comb of 4 or more years Social Science	12,954	47	24.0	64	5,639	47	24.0	63	7,315	47	24.1	65
US Hist, World Hist, & Am Gov	1,899	7	22.9	56	817	7	23.0	57	1,081	7	22.9	55
Other comb of 3 or 3.5 years of Social Science	7,080	26	24.7	68	2,950	24	24.8	68	4,128	26	24.6	68
Less than 3 years of Social Science	3,248	12	23.8	62	1,393	12	24.0	63	1,855	12	23.7	61
Zero years / no Social Science courses reported	589	2	22.6	54	350	3	22.1	50	239	2	23.4	59
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ¹ , Bio, Chem, & Phys	16,934	61	23.9	61	7,863	65	24.5	66	9,071	58	23.3	57
Bio, Chem, Phys	3,509	13	24.6	65	1,590	13	25.5	71	1,919	12	23.9	60
Gen Sci ² , Bio, Chem	5,250	19	20.9	37	1,729	14	20.4	34	3,518	23	21.1	39
Other comb of 3 years of Natural Science	275	1	20.6	35	149	1	21.2	42	126	1	20.0	27
Less than 3 years of Natural Science	1,133	4	19.8	27	411	3	19.1	23	722	5	20.2	30
Zero years / no Natural Science courses reported	593	2	21.3	40	351	3	21.3	41	242	2	21.4	40

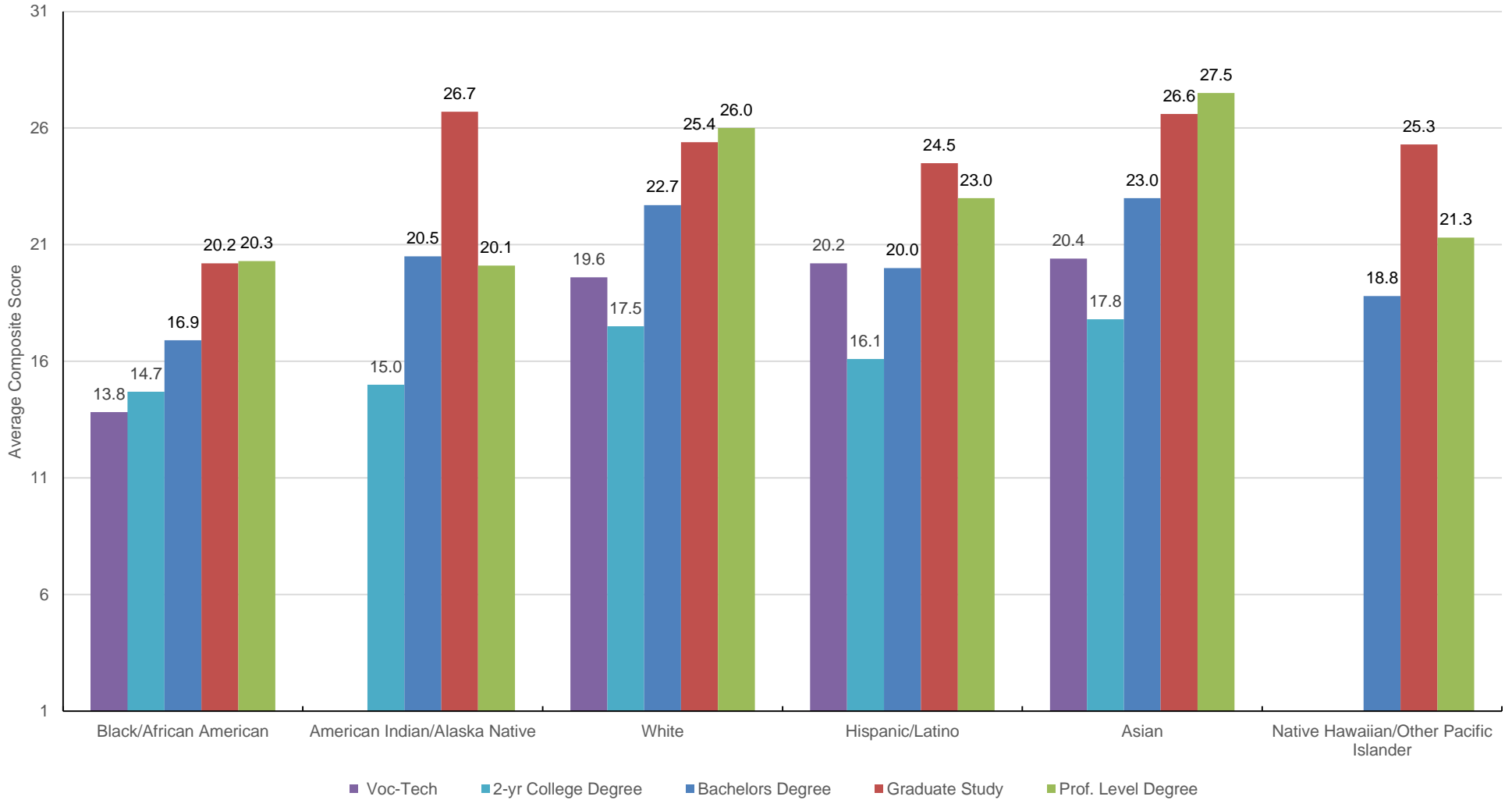
¹Includes General, Physical and Earth Sciences.

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Section IV

Career and Educational Aspirations

Figure 4.1. Average ACT Composite Scores by Race and Student Postsecondary Aspirations*



*Missing columns reflect combinations of race/ethnicity and postsecondary aspiration in which one or both indicators are missing.

Total Students in Report: 27,694

Table 4.1. Distribution of Planned Educational Majors for All Students by College Plans

Planned Educational Major	All Students			Plan on 2 Years or Less of College			Plan on 4 Years or More of College		
	N ¹	Percent ²	Avg ACT Comp	N	Percent	Avg ACT Comp	N	Percent	Avg ACT Comp
Agriculture & Natural Resources Conservation	256	1	22.8	11	3	18.7	230	1	23.1
Architecture	245	1	23.1	6	2	16.8	219	1	23.5
Area, Ethnic, & Multidisciplinary Studies	31	0	23.4	0	0	.	31	0	23.4
Arts: Visual & Performing	1,041	4	22.1	21	6	16.7	887	4	22.4
Business	3,337	12	22.9	52	15	17.7	3,037	13	23.1
Communications	574	2	22.6	3	1	20.0	535	2	22.7
Community, Family, & Personal Services	212	1	19.0	13	4	16.2	174	1	19.7
Computer Science & Mathematics	1,133	4	25.6	13	4	18.5	1,022	4	25.8
Education	1,054	4	21.3	13	4	14.5	985	4	21.4
Engineering	3,060	11	26.2	7	2	20.3	2,865	12	26.2
Engineering Technology & Drafting	230	1	22.0	7	2	14.3	198	1	22.7
English & Foreign Languages	295	1	25.8	2	1	20.0	270	1	26.0
Health Administration & Assisting	514	2	19.7	20	6	15.8	436	2	20.3
Health Sciences & Technologies	5,067	18	22.9	52	15	17.0	4,724	19	23.0
Philosophy, Religion, & Theology	67	0	21.8	0	0	.	60	0	21.9
Repair, Production, & Construction	50	0	17.8	24	7	17.7	20	0	18.4
Sciences: Biological & Physical	3,327	12	25.4	8	2	15.1	3,145	13	25.5
Social Sciences & Law	2,089	8	23.7	12	4	18.6	1,900	8	23.8
Undecided	4,636	17	23.0	66	19	17.5	3,515	14	23.8
No Response	473	2	21.6	6	2	14.7	33	0	18.9

¹2-Year and 4-Year "N" counts do not reflect "Missing" and "Other" college plans, therefore they may not add up to the N count for All Students.

²Percent of students tested within College Plan groups (All Students, 2-Year, 4-Year).

Total Students in Report: 27,694

Table 4.2. Average ACT Composite Scores for Racial/Ethnic Groups by Post-Secondary Educational Aspirations

Educational Degree Aspirations	All Racial/Ethnic Groups Combined		Black/African American		American Indian/ Alaska Native		White		Hispanic/Latino	
	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	116	17.7	33	13.8	0	.	62	19.6	6	20.2
2-yr College Degree	223	16.8	36	14.7	1	15.0	154	17.5	16	16.1
Bachelors Degree	10,811	22.1	882	16.9	17	20.5	8,335	22.7	520	20.0
Graduate Study	6,388	25.2	293	20.2	7	26.7	5,043	25.4	250	24.5
Prof. Level Degree	7,087	25.5	631	20.3	8	20.1	4,786	26.0	431	23.0
Other	233	21.0	39	15.5	2	16.5	125	22.2	17	20.6
No Response	2,836	21.7	559	15.9	6	19.2	1,140	24.5	154	19.1

Educational Degree Aspirations	All Racial/Ethnic Groups Combined		Asian		Native Hawaiian/ Other Pacific Islander		Two or more races		Prefer not to respond/ No Response	
	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	116	17.7	8	20.4	0	.	1	14.0	6	15.0
2-yr College Degree	223	16.8	5	17.8	0	.	5	16.0	6	15.7
Bachelors Degree	10,811	22.1	387	23.0	10	18.8	320	21.8	340	22.4
Graduate Study	6,388	25.2	338	26.6	4	25.3	190	25.3	263	25.5
Prof. Level Degree	7,087	25.5	621	27.5	8	21.3	247	25.3	355	26.4
Other	233	21.0	14	26.1	0	.	13	19.6	23	22.5
No Response	2,836	21.7	178	24.8	1	17.0	78	21.4	720	21.5

Total Students in Report: 27,694

Table 4.3. Students' Score Report Preferences at Time of Testing

Name	State	Number of Students			Percent of Students in College Readiness Standards Ranges						
		Total	1st Choice	2nd-6th Choice	01-12	13-15	16-19	20-23	24-27	28-32	33-36
PENN STATE-UNIVERSITY PARK CAMPUS	Pennsylvania	2,419	866	1,553	0	4	14	28	30	19	4
UNIVERSITY OF PITTSBURGH	Pennsylvania	2,080	837	1,243	0	2	9	26	33	24	6
TEMPLE UNIVERSITY	Pennsylvania	1,147	379	768	1	6	19	33	26	13	2
WEST CHESTER UNIVERSITY OF PENNSYLVANIA	Pennsylvania	750	215	535	1	6	25	38	22	7	1
DUQUESNE UNIVERSITY	Pennsylvania	648	212	436	0	1	13	30	33	21	2
DREXEL UNIVERSITY	Pennsylvania	630	170	460	0	3	12	30	27	22	5
SLIPPERY ROCK UNIVERSITY OF PENN	Pennsylvania	559	199	360	2	10	28	32	21	7	0
UNIVERSITY OF PENNSYLVANIA	Pennsylvania	558	204	354	0	2	7	15	23	34	19
BLOOMSBURG UNIVERSITY OF PENNSYLVANIA	Pennsylvania	436	133	303	2	9	30	36	19	4	0
INDIANA UNIVERSITY OF PENNSYLVANIA	Pennsylvania	429	102	327	3	13	32	33	14	5	0
WEST VIRGINIA UNIVERSITY	West Virginia	410	170	240	1	3	18	34	28	15	1
NCAA ELIGIBILITY CENTER	Indiana	389	232	157	1	6	22	30	24	14	2
KUTZTOWN UNIVERSITY OF PENNSYLVANIA	Pennsylvania	354	103	251	3	17	29	32	14	5	1
ROBERT MORRIS UNIVERSITY	Pennsylvania	346	83	263	1	9	24	34	22	9	1
UNIVERSITY OF DELAWARE	Delaware	345	74	271	0	2	12	27	32	23	3
VILLANOVA UNIVERSITY	Pennsylvania	345	88	257	0	2	8	21	31	32	6
LEHIGH UNIVERSITY	Pennsylvania	335	74	261	0	1	5	15	37	34	8
MILLERSVILLE UNIVERSITY OF PENNSYLVANIA	Pennsylvania	317	88	229	1	9	24	32	22	11	0
CARNEGIE MELLON UNIVERSITY	Pennsylvania	316	89	227	0	0	7	12	25	36	20
OHIO STATE UNIVERSITY THE	Ohio	313	91	222	1	3	12	21	31	28	5
GANNON UNIVERSITY	Pennsylvania	309	122	187	3	10	23	28	22	12	1
SHIPPENSBURG UNIVERSITY OF PENNSYLVANIA	Pennsylvania	271	56	215	1	14	28	30	21	5	1
BUCKNELL UNIVERSITY	Pennsylvania	249	63	186	0	2	7	14	35	32	9
KENT STATE UNIVERSITY	Ohio	249	90	159	1	9	19	35	27	8	0
EDINBORO UNIVERSITY OF PENNSYLVANIA	Pennsylvania	234	77	157	5	19	32	28	9	6	1
UNIVERSITY OF MARYLAND COLLEGE PARK	Maryland	229	41	188	1	1	10	18	31	31	7
NEW YORK UNIVERSITY	New York	197	61	136	0	2	7	19	32	32	8
VIRGINIA TECH	Virginia	184	32	152	0	2	4	16	36	34	8
EAST STROUDSBURG UNIVERSITY OF PENN	Pennsylvania	183	39	144	4	11	39	25	16	3	1
UNIVERSITY OF SCRANTON	Pennsylvania	182	44	138	0	2	14	37	29	15	3
All Other Institutions		18,477	5,411	13,066	1	6	17	26	25	20	6
Total		33,890	10,445	23,445	1	5	17	27	26	19	5

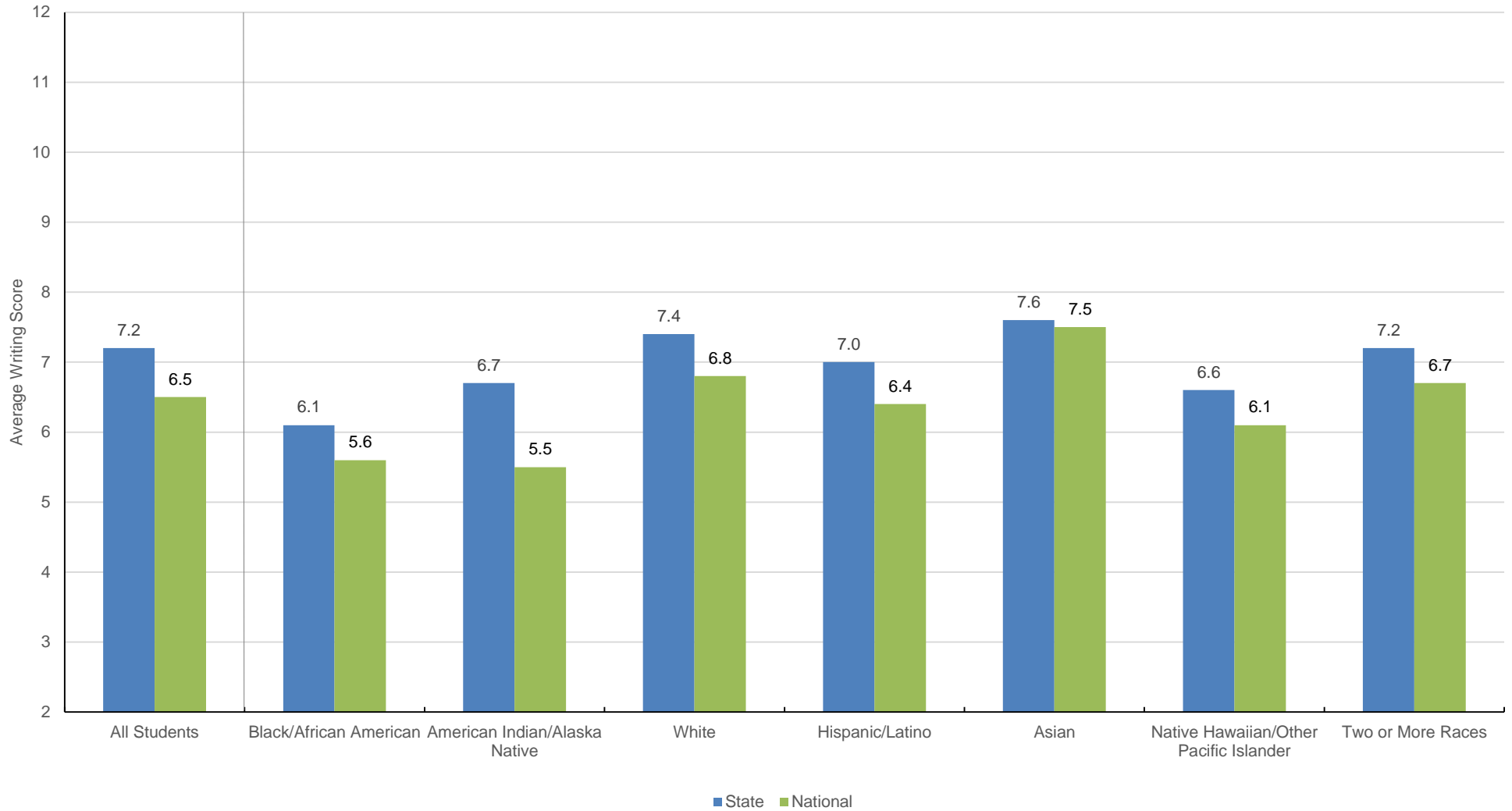
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Section V

Optional Writing Test Results

Total Students in Report: 27,694

Figure 5.1. Average ACT Writing Scores by Race/Ethnicity*



*Missing columns reflect race/ethnicity groupings that are missing.

Total Students in Report: 27,694

Table 5.1. Average ACT English Language Arts Constituent Scores by Race/Ethnicity and Gender for Students Who Took ACT Writing

	N		Average ACT Scores					
			English		Reading		Writing	
			State	National	State	National	State	National
All Students	13,366	903,603	24.3	20.7	24.8	21.8	7.2	6.5
Black/African American	1,419	103,370	17.4	15.9	18.4	17.3	6.1	5.6
American Indian/Alaska Native	18	6,413	19.7	15.6	20.9	17.5	6.7	5.5
White	8,710	426,803	25.4	22.5	26.0	23.4	7.4	6.8
Hispanic/Latino	734	177,117	21.8	18.2	23.0	19.6	7.0	6.4
Asian	985	63,636	26.6	25.2	26.0	25.1	7.6	7.5
Native Hawaiian/Other Pacific Islander	9	3,602	22.7	17.3	22.7	18.2	6.6	6.1
Two or More Races	446	43,115	24.5	21.2	24.8	22.3	7.2	6.7
Prefer not/No Response	1,045	79,547	23.5	19.9	24.1	21.1	6.9	6.3
Males	5,744	421,102	24.3	20.3	24.9	21.5	7.0	6.3
Females	7,622	472,773	24.2	21.2	24.7	22.1	7.3	6.8
No Response	0	9,728	.	15.8	.	17.5	.	5.3

Table 5.2. Average ACT English Language Arts Outcomes by Race/Ethnicity and Gender for Students Who Took ACT Writing

	N		Average ACT Scores			
			Average ELA Score		Percent Who Met ELA Benchmark	
			State	National	State	National
All Students	13,366	903,603	22.9	19.9	72	50
Black/African American	1,419	103,370	17.1	15.6	29	21
American Indian/Alaska Native	18	6,413	19.6	15.5	39	20
White	8,710	426,803	23.9	21.3	80	61
Hispanic/Latino	734	177,117	21.1	18.0	60	37
Asian	985	63,636	24.6	23.6	80	73
Native Hawaiian/Other Pacific Islander	9	3,602	20.8	17.0	56	31
Two or More Races	446	43,115	23.0	20.3	72	53
Prefer not/No Response	1,045	79,547	22.1	19.1	63	45
Males	5,744	421,102	22.8	19.3	72	47
Females	7,622	472,773	23.0	20.5	73	54
No Response	0	9,728	.	15.2	.	21

