



# Profile Report - State

Graduating Class 2016

Pennsylvania



## New to your 2016 Profile Report

In Fall 2015, ACT introduced additional test scores and indicators to provide students and educators with more insight into critical aspects of college and career readiness. Tables for these new scores and indicators (Writing scores from enhanced design, ELA score, STEM score, Understanding Complex Texts Indicator, and Progress Toward Career Readiness Indicator) are included in this report to describe available data. To determine where the new scores are summarized in this report, please consult the Table of Contents.

- **Writing scores:** Writing scores describe core writing competencies valued by high school and college educators. These competencies are summarized by the writing scores. Writing scores from test events before September 2015 will be reported on the 2-12 scale. Writing scores from test events on or after September 2015 will be reported on the 1-36 scale.
- **ELA:** The English Language Arts (ELA) score is based upon student scores in ACT English, Reading, and Writing, and is intended to represent a measure of students' overall literacy skills. This score utilizes ACT's customary 1-36 scale.
- **STEM:** In response to the national focus on student performance in Science, Technology, Engineering, and Mathematics (STEM), a STEM score was developed to gauge students' overall performance in mathematics and science. This score, driven by ACT Mathematics and Science scores, ranges from 1 to 36. Test scores from previous years have been calculated.
- **Understanding Complex Texts Indicator:** The Understanding Complex Texts indicator represents students' progress toward understanding the complex written material encountered in college and careers. The indicator is reported in three proficiency levels: Below Proficient, Proficient, and Above Proficient.
- **Progress Toward Career Readiness Indicator:** Progress toward career readiness indicator is based upon the ACT Composite score, representing the level at which students perform relative to the National Career Readiness Certificate (NCRC). Symbolizing attainment of workplace employability skills critical to job success, this indicator is reported in four levels: Progress Needs Improvement, Progress Toward Bronze NCRC, Progress Toward Silver NCRC, and Progress Toward Gold NCRC.

## Table of Contents

<b>Section I: Executive Summary</b>	<b>Page 5</b>
Percent of Your Students Ready for College-Level Coursework	
Five Year Trends—Percent of Students Who Met College Readiness Benchmarks	
Five Year Trends—Average ACT Scores	
Five Year Trends—Average ACT Scores by Level of Preparation	
Five Year Trends—Percent and Average Composite Score by Race/Ethnicity	
Five Year Trends—Achievement in STEM	
Proficiency Toward Understanding Complex Text	
Average ACT College Reportable Scores by Test Session Duration	
Percent of Students Who Met College Readiness Benchmark Scores by Test Session Duration	
<b>Section II: Academic Achievement</b>	<b>Page 11</b>
ACT Score Distributions, Cumulative Percentages, Averages, and Quartile Values	
Average ACT Composite Scores for Race/Ethnicity by Level of Preparation	
Average ACT Scores by Race/Ethnicity	
Average ACT Composite Scores for Gender by Level of Preparation	
Average ACT Scores by Gender	
<b>Section III: College Readiness &amp; Impact of Course Rigor</b>	<b>Page 17</b>
Percent of Students in College and Career Readiness Standards (CCRS) Score Ranges	
Percent of Students Who Met ACT College Readiness Benchmark Scores by Gender and Race/Ethnicity	
Progress Toward National Career Readiness Certificates	
College Readiness Benchmark Percent and Average ACT Scores by Overall High School Curriculum	
College Readiness Benchmark Percent and Average ACT Scores by Content-Specific Curriculum	
College Readiness Benchmark Percent and Average ACT Scores by Common Course Patterns	
<b>Section IV: Career and Educational Aspirations</b>	<b>Page 23</b>
Distribution of Planned Educational Majors for All Students by College Plans	
Average ACT Composite Scores for Racial/Ethnic Groups by Post-Secondary Educational Aspirations	
Students' Score Report Preferences at Time of Testing	
<b>Section V: Optional Writing Test Results</b>	<b>Page 27</b>
Average ACT Total Writing and English/Language Arts Scores by Race/Ethnicity and Gender	

This report provides information about the performance of your 2016 graduating seniors who took the ACT as sophomores, juniors, or seniors; and self-reported at the time of testing that they were scheduled to graduate in 2016. Beginning with the Graduating Class of 2013, all students whose scores are college reportable, both standard and extended time tests, are now included in the report.

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, and writing (optional)
- 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 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. *Connecting College 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](http://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 and STEM. 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

For more information, go to [www.act.org](http://www.act.org)

## How to Improve Scores and Increase College Readiness

42% 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:** 31,342 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, 17% were college ready. 6% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 13% of these students were college ready. In comparison, 65% 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. 24% of these students were college ready. In comparison, 54% 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 Readiness Standards score ranges. For example, approximately 32% 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 Readiness Standards at [www.act.org/standard](http://www.act.org/standard).

**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](mailto:customerservices@act.org).

# Section I

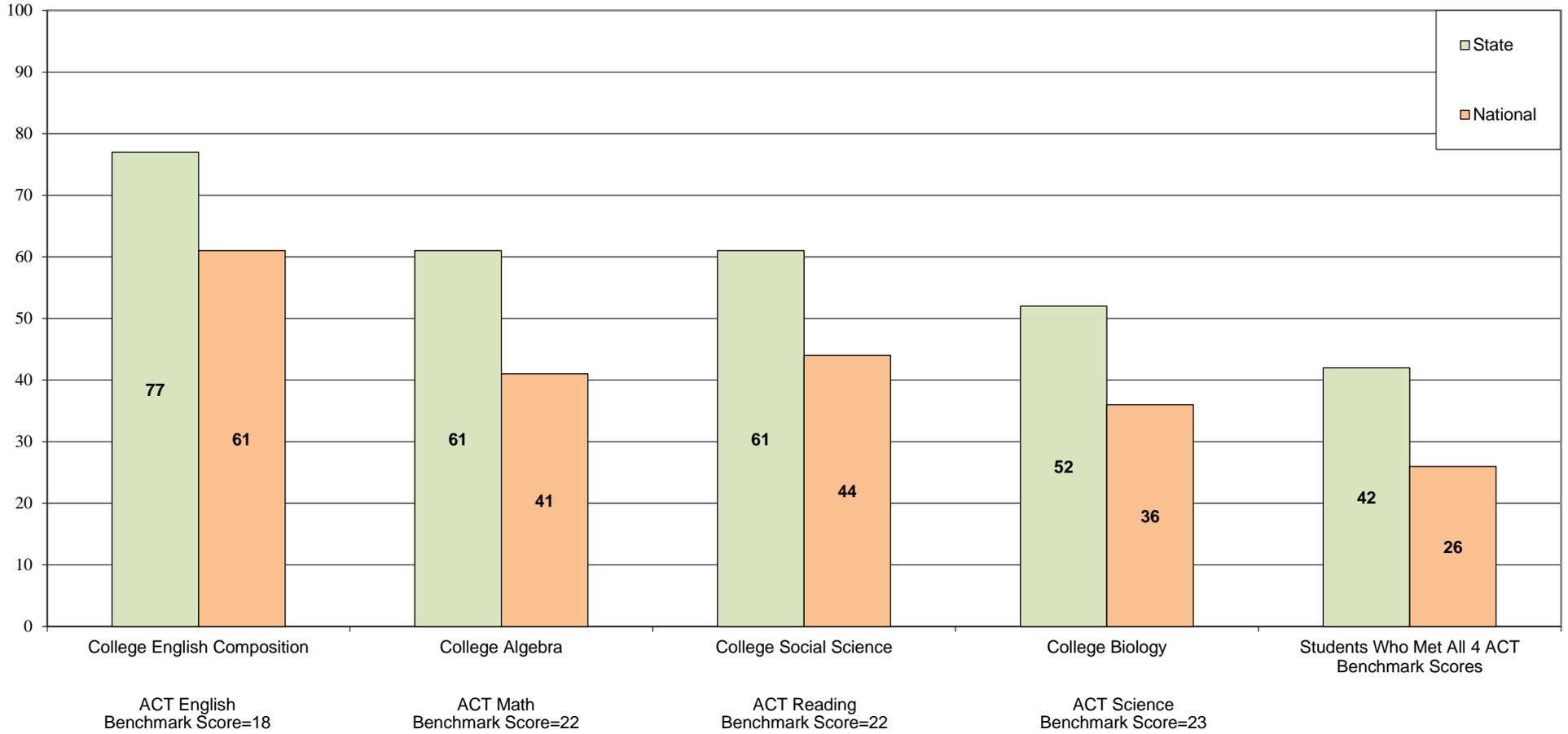
## Executive Summary

Beginning in August of 2013, all students whose scores are college reportable, both standard and extended time tests, are now included.

Also beginning in August 2013 Graduating Class data, College Readiness Benchmarks for Reading and Science were updated to reflect the most recent college coursework research.

To find the results of only standard time or extended time test takers, refer to Tables 1.7 and 1.8 on page 9.

Figure 1.1. Percent of Your Students Ready for College-Level Coursework



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 course.

Total Students in Report: 31,342

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

Year	Number of Students Tested		Percent Who Met Benchmarks									
			English		Mathematics		Reading		Science		Met All Four	
	State	National	State	National	State	National	State	National	State	National	State	National
2012	25,426	1,666,017	76	67	59	46	62	52	38	31	34	25
2013	26,171	1,799,243	77	64	61	44	57	44	47	36	38	26
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
<b>2016</b>	<b>31,342</b>	<b>2,090,342</b>	<b>77</b>	<b>61</b>	<b>61</b>	<b>41</b>	<b>61</b>	<b>44</b>	<b>52</b>	<b>36</b>	<b>42</b>	<b>26</b>

**Table 1.2. Five Year Trends—Average ACT Scores**

Year	Number of Students Tested		Average ACT Scores									
			English		Mathematics		Reading		Science		Composite	
	State	National	State	National	State	National	State	National	State	National	State	National
2012	25,426	1,666,017	22.0	20.5	22.7	21.1	22.7	21.3	21.9	20.9	22.4	21.1
2013	26,171	1,799,243	22.2	20.2	23.0	20.9	23.0	21.1	22.2	20.7	22.7	20.9
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
<b>2016</b>	<b>31,342</b>	<b>2,090,342</b>	<b>22.6</b>	<b>20.1</b>	<b>23.0</b>	<b>20.6</b>	<b>23.6</b>	<b>21.3</b>	<b>22.8</b>	<b>20.8</b>	<b>23.1</b>	<b>20.8</b>

**Table 1.3. Five Year Trends—Average ACT Scores Nationwide**

Year	Number of Students Tested	Average ACT Scores				
		English	Mathematics	Reading	Science	Composite
2012	1,666,017	20.5	21.1	21.3	20.9	21.1
2013	1,799,243	20.2	20.9	21.1	20.7	20.9
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
<b>2016</b>	<b>2,090,342</b>	<b>20.1</b>	<b>20.6</b>	<b>21.3</b>	<b>20.8</b>	<b>20.8</b>

Total Students in Report: 31,342

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

Year	Number of Students Tested		Percent <sup>2</sup>		Average ACT Scores									
					English		Mathematics		Reading		Science		Composite	
	Core or More <sup>1</sup>	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	Core or More	Less than Core	Core or More	Less than Core
2012	20,598	4,227	81	17	22.3	20.8	22.9	21.7	23.0	21.6	22.2	20.9	22.7	21.4
2013	21,156	4,395	81	17	22.5	21.0	23.3	22.1	23.3	22.0	22.4	21.3	23.0	21.7
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
<b>2016</b>	<b>25,349</b>	<b>5,357</b>	<b>81</b>	<b>17</b>	<b>22.8</b>	<b>21.7</b>	<b>23.3</b>	<b>22.2</b>	<b>23.8</b>	<b>22.7</b>	<b>23.1</b>	<b>22.0</b>	<b>23.4</b>	<b>22.3</b>

<sup>1</sup>"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.

<sup>2</sup>Percent 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**

	2012			2013			2014			2015			2016		
	N	%	Avg												
<b>All Students</b>	<b>25,426</b>	<b>100</b>	<b>22.4</b>	<b>26,171</b>	<b>100</b>	<b>22.7</b>	<b>27,136</b>	<b>100</b>	<b>22.7</b>	<b>29,776</b>	<b>100</b>	<b>22.9</b>	<b>31,342</b>	<b>100</b>	<b>23.1</b>
Black/African American	2,705	11	17.0	2,384	9	17.1	2,800	10	17.0	2,887	10	17.1	2,918	9	17.5
American Indian/Alaska Native	43	0	20.7	37	0	19.0	61	0	19.3	60	0	18.7	51	0	18.7
White	18,638	73	23.3	19,396	74	23.4	19,517	72	23.5	21,164	71	23.7	22,447	72	23.9
Hispanic/Latino	1,055	4	19.8	1,092	4	20.0	1,227	5	20.3	1,462	5	20.2	1,451	5	21.0
Asian	1,100	4	23.4	1,120	4	24.1	1,332	5	23.6	1,547	5	24.5	1,660	5	24.6
Native Hawaiian/Other Pacific Islander	28	0	20.6	27	0	20.9	29	0	22.2	21	0	21.1	41	0	23.5
Two or more races	591	2	21.5	674	3	22.0	741	3	21.6	865	3	22.2	935	3	21.9
Prefer not to respond/No response	1,266	5	23.6	1,441	6	23.8	1,429	5	23.4	1,770	6	23.8	1,839	6	23.7

**Table 1.6. Five Year Trends—Achievement in STEM<sup>1</sup>**

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
2012	25,426	1,666,017	22.5	21.3	28	20	28.8	28.7	27.7	27.9
2013	26,171	1,799,243	22.8	21.1	30	19	29.0	28.7	27.9	28.0
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
<b>2016</b>	<b>31,342</b>	<b>2,090,342</b>	<b>23.2</b>	<b>20.9</b>	<b>33</b>	<b>20</b>	<b>28.8</b>	<b>28.7</b>	<b>28.6</b>	<b>28.6</b>

<sup>1</sup>The STEM score describes students' overall proficiency in mathematics and science.

**Table 1.7. Proficiency In Understanding Complex Texts<sup>1</sup>**

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	
2012	0	0	0	0	.	.	0	0	0	0	.	.	0	0	0	0	.	.
2013	0	0	0	0	.	.	0	0	0	0	.	.	0	0	0	0	.	.
2014	0	0	0	0	.	.	0	0	0	0	.	.	0	0	0	0	.	.
2015	0	0	0	0	.	.	0	0	0	0	.	.	0	0	0	0	.	.
<b>2016</b>	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

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

Total Students in Report: 31,342

**Table 1.8. Average ACT College Reportable Scores by Test Session Duration**

Student Group	Test Session Duration	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Standard Time	30,255	97	22.6	23.1	23.6	22.9	23.2
	Extended Time	1,087	3	20.4	20.7	22.6	21.1	21.3
	Total	31,342	100	22.6	23.0	23.6	22.8	23.1
National	Standard Time	1,985,389	95	20.3	20.7	21.4	20.9	21.0
	Extended Time	104,953	5	16.6	18.0	18.9	18.2	18.0
	Total	2,090,342	100	20.1	20.6	21.3	20.8	20.8

**Table 1.9. Percent of Students Who Met College Readiness Benchmark Scores by Test Session Duration**

Student Group	Test Session Duration	Percent of Students				Met All Four
		English	Mathematics	Reading	Science	
State	Standard Time	77	61	61	53	42
	Extended Time	62	42	51	41	31
	Total	77	61	61	52	42
National	Standard Time	63	42	45	37	27
	Extended Time	39	22	31	23	16
	Total	61	41	44	36	26

# Section II

## Academic Achievement

Beginning with the Graduating Class of 2013, all students whose scores are college reportable, both standard and extended time tests, are now included.

Also beginning with the 2013 Graduating Class data, College Readiness Benchmarks for Reading and Science were updated to reflect the most recent college coursework research.

Total Students in Report: 31,342

Table 2.1. ACT Score Distributions, Cumulative Percentages (CP<sup>1</sup>), and Score Averages

ACT Score	English		Mathematics		Reading		Science		Composite		STEM		ACT Score
	N	CP	N	CP	N	CP	N	CP	N	CP	N	CP	
36	225	100	191	100	421	100	344	100	52	100	144	100	36
35	942	99	413	99	733	99	413	99	266	99	326	99	35
34	685	96	429	98	912	96	535	98	457	99	412	99	34
33	828	94	534	97	1,255	93	572	96	684	98	535	97	33
32	636	91	502	95	1,265	89	635	94	798	95	651	95	32
31	820	89	656	93	1,078	85	638	92	882	93	839	93	31
30	846	87	758	91	1,267	82	549	90	1,133	90	872	91	30
29	781	84	1,270	89	972	78	938	88	1,286	86	1,099	88	29
28	1,259	82	1,833	85	1,226	75	1,096	85	1,446	82	1,356	84	28
27	1,253	78	2,233	79	1,347	71	1,204	82	1,697	78	1,856	80	27
26	1,521	74	2,393	72	1,527	67	1,731	78	1,934	72	2,253	74	26
25	1,759	69	1,817	64	1,333	62	2,624	72	2,035	66	2,425	67	25
24	2,113	63	2,598	58	1,658	57	2,785	64	2,097	60	2,449	59	24
23	2,189	56	1,879	50	2,120	52	2,348	55	2,250	53	2,159	51	23
22	1,964	49	1,536	44	1,945	45	2,654	48	2,134	46	2,007	45	22
21	2,013	43	1,071	39	1,957	39	1,738	39	1,928	39	1,815	38	21
20	1,792	37	1,268	36	1,584	33	2,366	34	1,855	33	1,731	32	20
19	1,257	31	1,395	32	1,438	28	1,626	26	1,622	27	1,824	27	19
18	1,165	27	1,916	27	1,524	23	1,448	21	1,467	22	1,728	21	18
17	1,173	23	2,054	21	1,056	18	1,056	16	1,402	17	1,492	16	17
16	1,393	20	2,141	15	995	15	1,386	13	1,141	12	1,272	11	16
15	1,276	15	1,348	8	1,026	12	740	8	977	9	915	7	15
14	929	11	603	4	787	9	641	6	730	6	584	4	14
13	615	8	305	2	692	6	410	4	554	3	318	2	13
12	474	6	116	1	624	4	337	3	278	2	152	1	12
11	595	5	52	1	244	2	194	2	142	1	70	1	11
10	376	3	15	1	181	1	147	1	58	1	34	1	10
9	221	1	5	1	76	1	87	1	23	1	15	1	9
8	119	1	3	1	33	1	50	1	9	1	3	1	8
7	81	1	3	1	28	1	27	1	5	1	4	1	7
6	23	1	2	1	21	1	6	1	0	1	1	1	6
5	12	1	2	1	6	1	7	1	0	1	1	1	5
4	4	1	1	1	8	1	0	1	0	1	0	1	4
3	2	1	0	1	1	1	7	1	0	1	0	1	3
2	1	1	0	1	2	1	0	1	0	1	0	1	2
1	0	1	0	1	0	1	3	1	0	1	0	1	1
Avg (SD)	22.6 (6.4)		23.0 (5.5)		23.6 (6.4)		22.8 (5.5)		23.1 (5.4)		23.2 (5.2)		Avg (SD)

<sup>1</sup>CP is the cumulative percent of students at or below a score point.

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

Total Students in Report: 31,342

**Table 2.2. ACT Subscore Distributions, Cumulative Percentages (CP<sup>1</sup>), and Subscore Averages**

ACT Scale Score	English				Reading				Mathematics						ACT Scale Score
	Usage/ Mechanics		Rhetorical Skills		Social Studies/ Sciences		Arts/ Literature		Pre/Elementary Algebra		Algebra/ Coordinate Geometry		Plane Geometry/ Trigonometry		
	N	CP	N	CP	N	CP	N	CP	N	CP	N	CP	N	CP	
18	1,852	100	522	100	1,438	100	1,967	100	1,601	100	517	100	598	100	18
17	2,473	94	1,031	98	2,466	95	2,507	94	2,385	95	519	98	118	98	17
16	1,810	86	2,084	95	2,727	88	3,050	86	2,322	87	1,496	97	2,025	98	16
15	2,152	80	2,858	88	1,741	79	3,082	76	2,798	80	2,583	92	2,697	91	15
14	1,742	74	2,809	79	3,578	73	2,295	66	2,973	71	3,849	84	3,634	83	14
13	2,542	68	2,655	70	2,237	62	1,866	59	3,771	61	3,868	71	3,407	71	13
12	2,804	60	4,284	62	3,221	55	2,776	53	2,518	49	4,415	59	2,986	60	12
11	3,230	51	2,794	48	2,384	44	2,955	44	2,947	41	3,274	45	2,843	51	11
10	2,960	41	2,985	39	2,839	37	2,716	35	1,973	32	3,273	35	4,722	42	10
9	2,561	31	3,087	30	2,790	28	1,774	26	2,338	26	3,124	24	3,244	27	9
8	2,070	23	2,307	20	2,277	19	1,765	20	1,962	18	1,931	14	2,261	16	8
7	1,554	16	1,391	13	1,417	12	1,323	15	2,123	12	1,179	8	1,110	9	7
6	1,314	11	1,033	8	1,033	7	1,605	10	883	5	548	4	402	5	6
5	1,184	7	819	5	612	4	963	5	472	2	362	2	725	4	5
4	661	3	450	2	327	2	463	2	179	1	152	1	118	2	4
3	324	1	169	1	86	1	167	1	67	1	172	1	268	1	3
2	97	1	55	1	113	1	62	1	29	1	19	1	36	1	2
1	12	1	9	1	56	1	6	1	1	1	61	1	148	1	1
Avg (SD)	11.5 (3.9)		11.4 (3.3)		11.9 (3.6)		12.1 (3.9)		12.2 (3.5)		11.6 (2.9)		11.4 (3.1)		Avg (SD)

<sup>1</sup>CP is the cumulative percent of students at or below a score point.

**Table 2.3. ACT Score Quartile Values**

Quartile	English	Mathematics	Reading	Science	Composite
Q3 (75th Percentile)	27	27	29	26	27
Q2 (50th Percentile)	23	23	23	23	23
Q1 (25th Percentile)	18	18	19	19	19

Total Students in Report: 31,342

**Table 2.4. Average ACT Composite Scores for Race/Ethnicity by Level of Preparation**

Student Group	Race/Ethnicity	Number of Students Tested	Percent Taking Core or More <sup>1</sup>	Average ACT Composite Score	
				Core or More	Less Than Core
State	<b>All Students</b>	<b>31,342</b>	<b>81</b>	<b>23.4</b>	<b>22.3</b>
	Black/African American	2,918	73	17.7	17.1
	American Indian/Alaska Native	51	67	19.3	18.4
	White	22,447	84	24.0	23.4
	Hispanic/Latino	1,451	77	21.4	20.1
	Asian	1,660	71	25.2	23.8
	Native Hawaiian/Other Pac. Isl.	41	88	23.9	27.3
	Two or More Races	935	82	22.3	20.6
	Prefer not/No Response	1,839	71	24.4	23.0
National	<b>All Students</b>	<b>2,090,342</b>	<b>69</b>	<b>21.9</b>	<b>18.7</b>
	Black/African American	272,363	64	17.8	15.7
	American Indian/Alaska Native	16,183	57	18.9	16.3
	White	1,119,398	73	23.2	20.0
	Hispanic/Latino	337,280	69	19.5	17.3
	Asian	93,493	78	24.7	22.1
	Native Hawaiian/Other Pac. Isl.	6,797	61	20.1	16.6
	Two or More Races	85,494	70	21.9	19.0
	Prefer not/No Response	159,334	48	22.3	18.2

<sup>1</sup>"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 Race/Ethnicity**

Student Group	Race/Ethnicity	N	Percent	English	Mathematics	Reading	Science	Composite	STEM
State	<b>All Students</b>	<b>31,342</b>	<b>100</b>	22.6	23.0	23.6	22.8	23.1	23.2
	Black/African American	2,918	9	16.4	17.8	17.8	17.5	17.5	17.9
	American Indian/Alaska Native	51	0	17.6	19.4	18.4	19.0	18.7	19.5
	White	22,447	72	23.4	23.6	24.4	23.6	23.9	23.9
	Hispanic/Latino	1,451	5	20.3	20.9	21.5	20.9	21.0	21.1
	Asian	1,660	5	23.7	26.1	24.1	24.1	24.6	25.3
	Native Hawaiian/Other Pac. Isl.	41	0	22.8	23.4	24.4	23.0	23.5	23.5
	Two or More Races	935	3	21.3	21.7	22.5	21.8	21.9	22.0
	Prefer not/No Response	1,839	6	23.4	23.4	24.2	23.2	23.7	23.6
National	<b>All Students</b>	<b>2,090,342</b>	<b>100</b>	20.1	20.6	21.3	20.8	20.8	20.9
	Black/African American	272,363	13	15.8	17.0	17.4	17.2	17.0	17.3
	American Indian/Alaska Native	16,183	1	16.3	17.7	18.2	18.1	17.7	18.2
	White	1,119,398	54	21.9	21.7	22.8	22.1	22.2	22.1
	Hispanic/Latino	337,280	16	17.6	18.8	19.2	18.9	18.7	19.1
	Asian	93,493	4	23.3	25.0	23.7	23.6	24.0	24.6
	Native Hawaiian/Other Pac. Isl.	6,797	0	17.4	18.9	18.9	18.6	18.6	19.0
	Two or More Races	85,494	4	20.4	20.5	21.6	20.9	21.0	21.0
	Prefer not/No Response	159,334	8	19.3	20.0	20.6	20.0	20.1	20.3

Total Students in Report: 31,342

**Table 2.6. Average ACT Composite Scores for Gender by Level of Preparation**

Student Group	Gender	Number of Students Tested	Percent Taking Core or More <sup>1</sup>	Average ACT Composite Score	
				Core or More	Less Than Core
State	Males	13,996	81	23.8	22.6
	Females	17,344	81	23.1	22.0
	No Response	2	50	15.0	13.0
National	Males	971,383	68	22.1	18.5
	Females	1,074,049	72	21.7	19.1
	No Response	44,910	28	19.3	16.5

**Table 2.7. Average ACT Scores by Gender**

Student Group	Gender	N	Percent	English	Mathematics	Reading	Science	Composite	STEM
State	Males	13,996	45	22.5	23.9	23.6	23.5	23.5	23.9
	Females	17,344	55	22.7	22.3	23.6	22.4	22.9	22.6
	No Response	2	0	10.5	16.0	16.0	13.5	14.0	15.0
National	Males	971,383	46	19.8	21.0	21.0	21.1	20.9	21.3
	Females	1,074,049	51	20.6	20.3	21.6	20.6	20.9	20.7
	No Response	44,910	2	16.5	17.9	18.0	17.9	17.7	18.2

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# Section III

## College and Career Readiness and the Impact of Course Rigor

Beginning with the Graduating Class of 2013, all students whose scores are college reportable, both standard and extended time tests, are now included.

Also beginning with the 2013 Graduating Class data, College Readiness Benchmarks for Reading and Science were updated to reflect the most recent college coursework research.

Total Students in Report: 31,342

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

Student Group	CRS Range	English		Mathematics		Reading		Science	
		N	%	N	%	N	%	N	%
State	33 to 36	2,680	9	1,567	5	3,321	11	1,864	6
	28 to 32	4,342	14	5,019	16	5,808	19	3,856	12
	24 to 27	6,646	21	9,041	29	5,865	19	8,344	27
	20 to 23	7,958	25	5,754	18	7,606	24	9,106	29
	16 to 19	4,988	16	7,506	24	5,013	16	5,516	18
	13 to 15	2,820	9	2,256	7	2,505	8	1,791	6
	01 to 12	1,908	6	199	1	1,224	4	865	3
National	33 to 36	116,080	6	59,483	3	130,942	6	72,515	3
	28 to 32	200,641	10	192,181	9	275,075	13	157,797	8
	24 to 27	315,883	15	404,868	19	295,645	14	407,121	19
	20 to 23	472,860	23	351,510	17	483,472	23	578,034	28
	16 to 19	378,663	18	701,208	34	451,883	22	502,407	24
	13 to 15	317,275	15	353,660	17	297,137	14	234,398	11
	01 to 12	288,940	14	27,432	1	156,188	7	138,070	7

**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	76	66	61	57	46
	Females	77	56	61	49	39
	No Response	0	0	0	0	0
National	Males	59	44	43	39	28
	Females	64	39	47	34	25
	No Response	39	21	24	18	11

Total Students in Report: 31,342

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

Student Group	N	English Benchmark=18 %	Mathematics Benchmark=22 %	Reading Benchmark=22 %	Science Benchmark=23 %	All Four %	STEM Benchmark=26 %	
<b>State</b>	<b>All Students</b>	<b>31,342</b>	<b>77</b>	<b>61</b>	<b>61</b>	<b>52</b>	<b>42</b>	<b>33</b>
	Black/African American	2,918	37	19	22	13	8	6
	American Indian/Alaska Native	51	53	35	31	29	20	16
	White	22,447	83	67	67	58	47	36
	Hispanic/Latino	1,451	62	44	48	36	27	19
	Asian	1,660	79	78	62	60	50	48
	Native Hawaiian/Other Pac. Isl	41	78	66	66	54	46	37
	Two or More Races	935	67	48	53	44	34	27
	Prefer Not to Respond	1,839	77	61	63	55	46	39
<b>National</b>	<b>All Students</b>	<b>2,090,342</b>	<b>61</b>	<b>41</b>	<b>44</b>	<b>36</b>	<b>26</b>	<b>20</b>
	Black/African American	272,363	33	13	19	11	6	3
	American Indian/Alaska Native	16,183	37	18	25	16	9	6
	White	1,119,398	73	50	55	46	34	25
	Hispanic/Latino	337,280	46	27	30	21	14	9
	Asian	93,493	75	70	59	56	46	44
	Native Hawaiian/Other Pac. Isl	6,797	45	29	30	23	16	11
	Two or More Races	85,494	64	40	46	36	26	19
	Prefer Not to Respond	159,334	55	36	40	32	24	19

**Table 3.4. Progress Toward Career Readiness<sup>1</sup>**

Student Group	Progress Toward NCRC <sup>2</sup> Level	N	%	Average Composite
<b>State</b>	Gold	26,023	83	24.8
	Silver	4,250	14	15.8
	Bronze	832	3	12.7
	Needs Improvement	237	1	10.4
<b>National</b>	Gold	1,418,678	68	23.7
	Silver	496,817	24	15.6
	Bronze	142,375	7	12.6
	Needs Improvement	32,472	2	10.4

<sup>1</sup> Progress reflects degree to which students are on track for attaining workplace employability skills critical to job success.

<sup>2</sup> Additional information on the ACT NCRC (National Career Readiness Certificate) can be found at [www.act.org](http://www.act.org).

Total Students in Report: 31,342

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

Student Group	Curriculum Taken <sup>1</sup>	N	English		Mathematics		Reading		Science		Composite <sup>4</sup>		STEM	
			%	Avg	%	Avg	%	Avg	%	Avg	%	Avg	%	Avg
State	Core or More <sup>2</sup>	25,349	79	22.8	63	23.3	63	23.8	54	23.1	44	23.4	34	23.4
	Less than Core	5,357	69	21.7	53	22.2	54	22.7	45	22.0	37	22.3	31	22.4
	Missing <sup>3</sup>	636	54	18.8	32	19.5	39	20.4	31	19.7	20	19.7	16	19.8
National	Core or More	1,441,538	69	21.3	48	21.5	51	22.3	43	21.7	32	21.9	24	21.9
	Less than Core	483,335	46	17.8	26	18.7	31	19.2	23	18.8	15	18.7	11	19.0
	Missing	165,469	38	16.4	20	17.7	24	18.0	18	17.8	11	17.6	8	18.0

<sup>1</sup> "Curriculum Taken" reflects overall high school curriculum in this table.

<sup>2</sup> "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.

<sup>3</sup> Zero years or no coursework information reported in one or more content areas.

<sup>4</sup> 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 <sup>1</sup>	English			Mathematics			Reading			Science		
		N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
State	Core or More <sup>2</sup>	30,168	77	22.7	30,232	62	23.2	26,872	61	23.6	29,437	54	23.1
	Less than Core	564	61	19.9	496	17	17.5	3,854	60	23.6	1,288	24	19.1
	Missing <sup>3</sup>	610	55	18.9	614	32	19.6	616	39	20.5	617	32	19.7
National	Core or More	1,821,855	65	20.7	1,834,921	44	21.0	1,707,404	48	21.8	1,679,561	41	21.4
	Less than Core	121,175	34	15.8	101,097	8	16.1	229,685	32	19.2	255,155	17	18.0
	Missing	147,312	40	16.6	154,324	20	17.8	153,253	25	18.2	155,626	19	18.0

<sup>1</sup> "Curriculum Taken" reflects content-specific curriculum in this table.

<sup>2</sup> "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.

<sup>3</sup> Zero years or no coursework information reported in the specified content area.

Total Students in Report: 31,342

**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
<b>ENGLISH COURSE PATTERN</b>								
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	6,391	20	23.0	78	385,251	18	21.7	71
Eng 9, Eng 10, Eng 11, Eng 12	23,777	76	22.6	77	1,436,604	69	20.4	63
Less than 4 years of English	564	2	19.9	61	121,175	6	15.8	34
Zero years / no English courses reported	610	2	18.9	55	147,312	7	16.6	40
<b>MATHEMATICS COURSE PATTERN</b>								
Alg 1, Alg 2, Geom, Trig, & Calc	3,928	13	24.8	78	125,390	6	23.2	63
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,761	9	21.6	53	163,212	8	21.6	52
Alg 1, Alg 2, Geom, & Trig	1,966	6	19.7	33	126,596	6	18.9	27
Alg 1, Alg 2, Geom, & Other Adv Math	2,929	9	19.6	33	379,347	18	19.3	30
Other comb of 4 or more years of Math	15,484	49	25.0	76	689,169	33	23.6	64
Alg 1, Alg 2, & Geom	1,806	6	17.2	13	243,569	12	16.8	10
Other comb of 3 or 3.5 years of Math	1,358	4	21.6	51	107,638	5	19.5	32
Less than 3 years of Math	496	2	17.5	17	101,097	5	16.1	8
Zero years / no Math courses reported	614	2	19.6	32	154,324	7	17.8	20
<b>SOCIAL SCIENCE COURSE PATTERN</b>								
US Hist, World Hist, Am Gov, & Other Hist	2,127	7	23.7	61	51,783	2	22.1	50
Other comb of 4 or more years Social Science	14,719	47	23.6	61	979,530	47	22.3	51
US Hist, World Hist, & Am Gov	1,885	6	22.5	53	120,501	6	19.6	33
Other comb of 3 or 3.5 years of Social Science	8,141	26	24.0	64	555,590	27	21.4	45
Less than 3 years of Social Science	3,854	12	23.6	60	229,685	11	19.2	32
Zero years / no Social Science courses reported	616	2	20.5	39	153,253	7	18.2	25
<b>NATURAL SCIENCE COURSE PATTERN</b>								
Gen Sci <sup>1</sup> , Bio, Chem, & Phys	19,632	63	23.5	58	844,557	40	22.1	46
Bio, Chem, Phys	3,721	12	24.6	65	233,024	11	23.0	52
Gen Sci <sup>1</sup> , Bio, Chem	5,799	19	20.7	35	542,380	26	20.0	29
Other comb of 3 years of Natural Science	285	1	20.4	33	59,600	3	19.0	23
Less than 3 years of Natural Science	1,288	4	19.1	24	255,155	12	18.0	17
Zero years / no Natural Science courses reported	617	2	19.7	32	155,626	7	18.0	19

<sup>1</sup>Includes General, Physical and Earth Sciences.

Total Students in Report: 31,342

**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
<b>ENGLISH COURSE PATTERN</b>												
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	6,391	20	23.0	78	2,682	19	22.8	77	3,709	21	23.2	79
Eng 9, Eng 10, Eng 11, Eng 12	23,777	76	22.6	77	10,695	76	22.6	77	13,080	75	22.6	77
Less than 4 years of English	564	2	19.9	61	268	2	19.6	59	296	2	20.1	62
Zero years / no English courses reported	610	2	18.9	55	351	3	18.8	52	259	1	19.1	58
<b>MATHEMATICS COURSE PATTERN</b>												
Alg 1, Alg 2, Geom, Trig, & Calc	3,928	13	24.8	78	1,676	12	25.4	82	2,252	13	24.3	75
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,761	9	21.6	53	955	7	22.1	59	1,806	10	21.4	50
Alg 1, Alg 2, Geom, & Trig	1,966	6	19.7	33	778	6	20.1	37	1,188	7	19.4	30
Alg 1, Alg 2, Geom, & Other Adv Math	2,929	9	19.6	33	1,027	7	19.8	35	1,902	11	19.4	31
Other comb of 4 or more years of Math	15,484	49	25.0	76	7,678	55	25.8	80	7,806	45	24.2	71
Alg 1, Alg 2, & Geom	1,806	6	17.2	13	713	5	17.3	13	1,092	6	17.2	13
Other comb of 3 or 3.5 years of Math	1,358	4	21.6	51	587	4	21.8	52	771	4	21.4	50
Less than 3 years of Math	496	2	17.5	17	230	2	17.8	19	265	2	17.3	15
Zero years / no Math courses reported	614	2	19.6	32	352	3	20.0	36	262	2	19.0	27
<b>SOCIAL SCIENCE COURSE PATTERN</b>												
US Hist, World Hist, Am Gov, & Other Hist	2,127	7	23.7	61	1,090	8	23.4	60	1,037	6	24.0	62
Other comb of 4 or more years Social Science	14,719	47	23.6	61	6,525	47	23.6	61	8,194	47	23.6	62
US Hist, World Hist, & Am Gov	1,885	6	22.5	53	914	7	22.6	54	971	6	22.4	53
Other comb of 3 or 3.5 years of Social Science	8,141	26	24.0	64	3,380	24	24.1	65	4,760	27	23.9	63
Less than 3 years of Social Science	3,854	12	23.6	60	1,732	12	23.7	60	2,121	12	23.5	60
Zero years / no Social Science courses reported	616	2	20.5	39	355	3	20.1	37	261	2	21.0	42
<b>NATURAL SCIENCE COURSE PATTERN</b>												
Gen Sci <sup>1</sup> , Bio, Chem, & Phys	19,632	63	23.5	58	9,308	67	24.1	62	10,323	60	23.0	54
Bio, Chem, Phys	3,721	12	24.6	65	1,736	12	25.6	72	1,985	11	23.8	60
Gen Sci <sup>2</sup> , Bio, Chem	5,799	19	20.7	35	1,954	14	20.5	33	3,844	22	20.8	36
Other comb of 3 years of Natural Science	285	1	20.4	33	152	1	20.6	34	133	1	20.1	32
Less than 3 years of Natural Science	1,288	4	19.1	24	492	4	18.5	20	796	5	19.5	26
Zero years / no Natural Science courses reported	617	2	19.7	32	354	3	19.8	32	263	2	19.6	31

<sup>1</sup>Includes General, Physical and Earth Sciences.

# Section IV

## Career and Educational Aspirations

Beginning with the Graduating Class of 2013, all students whose scores are college reportable, both standard and extended time tests, are now included.

Also beginning with the 2013 Graduating Class data, College Readiness Benchmarks for Reading and Science were updated to reflect the most recent college coursework research.

Total Students in Report: 31,342

**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 <sup>1</sup>	Percent <sup>2</sup>	Avg ACT Comp	N	Percent	Avg ACT Comp	N	Percent	Avg ACT Comp
Agriculture & Natural Resources Conservation	287	1	22.3	13	3	17.8	245	1	22.5
Architecture	302	1	22.6	3	1	16.0	267	1	23.1
Area, Ethnic, & Multidisciplinary Studies	37	0	23.9	0	0	.	32	0	24.1
Arts: Visual & Performing	1,229	4	21.8	23	6	17.3	1,059	4	22.2
Business	4,179	13	22.5	68	17	18.2	3,684	14	22.7
Communications	732	2	21.9	10	2	15.7	650	2	22.1
Community, Family, & Personal Services	268	1	19.4	11	3	19.4	215	1	20.0
Computer Science & Mathematics	1,164	4	25.1	14	3	17.9	1,052	4	25.3
Education	1,305	4	21.0	6	1	14.5	1,190	4	21.2
Engineering	3,427	11	25.7	12	3	16.8	3,151	12	25.8
Engineering Technology & Drafting	261	1	21.0	10	2	17.6	230	1	21.4
English & Foreign Languages	328	1	25.6	3	1	19.7	303	1	25.6
Health Administration & Assisting	569	2	19.1	17	4	18.0	465	2	19.6
Health Sciences & Technologies	5,447	17	22.4	73	18	17.0	4,960	18	22.6
Philosophy, Religion, & Theology	92	0	21.8	2	0	18.5	75	0	22.4
Repair, Production, & Construction	71	0	17.5	33	8	17.9	28	0	17.3
Sciences: Biological & Physical	3,461	11	25.2	10	2	19.0	3,166	12	25.2
Social Sciences & Law	2,391	8	22.9	14	3	18.7	2,141	8	23.2
Undecided	5,317	17	23.0	73	18	19.3	4,096	15	23.3
No Response	474	2	20.0	6	1	14.3	34	0	20.5

<sup>1</sup>2-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.

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

Total Students in Report: 31,342

**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	120	18.6	19	14.7	1	9.0	60	19.5	9	16.0
2-yr College Degree	281	17.6	33	14.9	1	12.0	206	18.1	14	16.5
Bachelors Degree	12,466	21.7	959	16.4	28	19.9	9,688	22.3	549	19.4
Graduate Study	7,321	24.7	384	19.6	4	18.8	5,810	25.1	277	23.2
Prof. Level Degree	7,257	25.1	684	19.9	7	23.4	4,839	25.8	404	23.0
Other	244	20.0	27	15.6	1	13.0	157	20.5	14	20.3
No Response	3,653	21.8	812	16.0	9	13.9	1,687	24.3	184	18.8

Educational Degree Aspirations	All Racial/Ethnic Groups Combined		Asian		Native Hawaiian/ Pacific Islander		Two or more races		Prefer not to respond/ No Response	
	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	120	18.6	16	21.1	0	.	3	23.7	12	18.9
2-yr College Degree	281	17.6	5	16.0	0	.	14	18.2	8	18.4
Bachelors Degree	12,466	21.7	415	22.1	12	21.8	349	20.2	466	21.8
Graduate Study	7,321	24.7	314	25.9	9	25.4	181	24.0	342	24.9
Prof. Level Degree	7,257	25.1	592	26.6	14	23.7	269	24.0	448	26.2
Other	244	20.0	15	20.2	0	.	7	18.4	23	22.0
No Response	3,653	21.8	303	23.7	6	23.7	112	19.8	540	22.7

Total Students in Report: 31,342

**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	3,219	1,208	2,011	1	6	16	28	30	17	3
UNIVERSITY OF PITTSBURGH	Pennsylvania	2,491	968	1,523	0	2	10	24	35	24	4
TEMPLE UNIVERSITY	Pennsylvania	1,382	458	924	1	7	20	31	26	13	2
WEST CHESTER UNIVERSITY OF PENNSYLVANIA	Pennsylvania	1,062	243	819	2	7	27	34	23	7	1
DREXEL UNIVERSITY	Pennsylvania	801	207	594	0	4	13	28	31	21	3
DUQUESNE UNIVERSITY	Pennsylvania	744	213	531	0	1	13	31	36	17	1
INDIANA UNIVERSITY OF PENNSYLVANIA	Pennsylvania	702	207	495	2	11	36	34	14	4	0
UNIVERSITY OF PENNSYLVANIA	Pennsylvania	693	258	435	1	2	6	16	26	34	15
BLOOMSBURG UNIVERSITY OF PENNSYLVANIA	Pennsylvania	690	228	462	2	16	33	34	12	3	0
SLIPPERY ROCK UNIVERSITY OF PENN	Pennsylvania	662	206	456	2	12	35	31	16	3	0
NCAA ELIGIBILITY CENTER	Indiana	574	323	251	2	10	24	26	23	12	2
KUTZTOWN UNIVERSITY OF PENNSYLVANIA	Pennsylvania	528	158	370	2	16	38	27	14	3	0
MILLERSVILLE UNIVERSITY OF PENNSYLVANIA	Pennsylvania	485	150	335	2	13	28	28	21	8	1
UNIVERSITY OF DELAWARE	Delaware	454	104	350	0	1	6	26	41	23	2
SHIPPENSBURG UNIVERSITY OF PENNSYLVANIA	Pennsylvania	445	97	348	3	14	34	29	16	3	0
WEST VIRGINIA UNIVERSITY	West Virginia	443	163	280	0	4	27	31	26	10	1
ROBERT MORRIS UNIVERSITY	Pennsylvania	437	127	310	1	7	27	37	20	7	1
LEHIGH UNIVERSITY	Pennsylvania	396	105	291	1	1	4	18	34	36	7
VILLANOVA UNIVERSITY	Pennsylvania	390	95	295	1	2	10	19	34	31	3
OHIO STATE UNIVERSITY THE	Ohio	366	91	275	1	3	9	22	37	22	5
CARNEGIE MELLON UNIVERSITY	Pennsylvania	358	116	242	0	1	3	10	28	33	25
GANNON UNIVERSITY	Pennsylvania	346	99	247	3	15	21	34	19	7	1
EDINBORO UNIVERSITY OF PENNSYLVANIA	Pennsylvania	332	122	210	5	23	37	23	10	3	0
CALIFORNIA UNIVERSITY OF PENNSYLVANIA	Pennsylvania	289	111	178	7	14	39	23	14	3	0
UNIVERSITY OF MARYLAND COLLEGE PARK	Maryland	286	48	238	1	1	6	22	37	28	6
BUCKNELL UNIVERSITY	Pennsylvania	282	62	220	0	0	5	15	31	40	8
EAST STROUDSBURG UNIVERSITY OF PENN	Pennsylvania	281	76	205	4	16	39	30	10	2	0
CLARION UNIVERSITY OF PENNSYLVANIA	Pennsylvania	259	84	175	3	10	44	24	14	3	0
KENT STATE UNIVERSITY	Ohio	254	80	174	0	2	22	41	27	7	0
UNIVERSITY OF SCRANTON	Pennsylvania	246	60	186	1	4	17	35	28	14	1
All Other Institutions		22,221	6,517	15,704	1	6	17	26	25	20	5
<b>Total</b>		<b>42,118</b>	<b>12,984</b>	<b>29,134</b>	<b>1</b>	<b>6</b>	<b>18</b>	<b>27</b>	<b>26</b>	<b>18</b>	<b>4</b>

# Section V

## Optional Writing Test Results

Beginning with the Graduating Class of 2013, all students whose scores are college reportable, both standard and extended time tests, are now included.

Also beginning with the 2013 Graduating Class data, College Readiness Benchmarks for Reading and Science were updated to reflect the most recent college coursework research.

Total Students in Report: 31,342

**Table 5.1. Average ACT Writing and English/Language Arts Scores by Race/Ethnicity and Gender for students who took ACT Writing<sup>1</sup>**

	Average ACT Scores									
	N		Writing		English		Reading		English / Language Arts	
	State	National	State	National	State	National	State	National	State	National
<b>All Students</b>	<b>12,762</b>	<b>519,922</b>	<b>20.3</b>	<b>19.3</b>	<b>22.8</b>	<b>21.8</b>	<b>23.8</b>	<b>22.9</b>	<b>22.3</b>	<b>21.3</b>
Black/African American	1,468	67,101	16.4	16.2	17.0	17.6	18.4	19.1	17.3	17.6
American Indian/Alaska Native	21	3,056	18.3	16.1	19.3	17.6	19.4	19.3	19.1	17.7
White	8,419	234,063	21.1	20.4	24.0	23.9	24.9	24.7	23.3	23.0
Hispanic/Latino	691	116,135	18.8	17.8	20.2	18.8	21.4	20.3	20.1	19.0
Asian	957	44,606	21.1	21.5	24.1	24.5	24.2	24.7	23.1	23.6
Native Hawaiian/Other Pac. Isl.	14	1,742	23.1	19.3	23.7	20.6	25.3	21.4	24.1	20.4
Two or More Races	428	21,475	18.7	19.9	21.3	22.6	22.4	23.6	20.8	22.0
Prefer not/No Response	764	31,744	20.3	19.9	23.2	22.8	24.0	23.8	22.5	22.2
Males	5,340	220,204	20.0	18.9	22.9	21.9	23.9	22.9	22.3	21.2
Females	7,422	298,512	20.5	19.6	22.8	21.8	23.7	22.8	22.3	21.4
No Response	0	1,206	.	16.3	.	16.8	.	19.0	.	17.3

<sup>1</sup>Results based on students with ACT Writing scores from test events beginning September 2015. Score scale is 1-36.

**Table 5.2. Average ACT English and Writing Scores by Race/Ethnicity and Gender for students who took ACT Writing<sup>1</sup>**

	Average ACT Scores							
	N		English		Writing		English / Writing Combined	
	State	National	State	National	State	National	State	National
<b>All Students</b>	<b>10,293</b>	<b>754,169</b>	<b>24.1</b>	<b>19.6</b>	<b>7.3</b>	<b>6.2</b>	<b>22.9</b>	<b>18.6</b>
Black/African American	737	85,940	16.6	14.6	5.8	5.1	16.0	13.9
American Indian/Alaska Native	14	5,558	16.1	15.2	5.6	5.0	15.4	14.2
White	7,680	407,944	24.8	21.4	7.5	6.5	23.6	20.2
Hispanic/Latino	418	115,338	22.0	17.1	6.9	6.0	21.0	16.5
Asian	471	30,233	25.3	23.2	7.7	7.1	24.1	22.0
Native Hawaiian/Other Pac. Isl.	18	3,063	23.4	15.9	7.5	5.6	22.4	15.3
Two or More Races	293	32,453	22.8	19.6	7.0	6.2	21.6	18.5
Prefer not/No Response	662	73,640	25.1	18.8	7.5	6.0	23.7	17.7
Males	4,756	367,696	24.1	19.2	7.2	5.9	22.7	18.0
Females	5,537	356,634	24.1	20.3	7.5	6.6	23.0	19.4
No Response	0	29,839	.	16.7	.	5.5	.	15.8

<sup>1</sup>Results based on students with ACT Writing scores from test events before September 2015. Score scale is 2-12.