



# Profile Report - State

Graduating Class 2016

Massachusetts



## 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

53% 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:** 20,298 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. 62% 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 1% of the cohort took less than three years of math courses. Of these students, 48% were college ready. 3% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 30% of these students were college ready. In comparison, 76% 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. 40% of these students were college ready. In comparison, 62% 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 19% 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

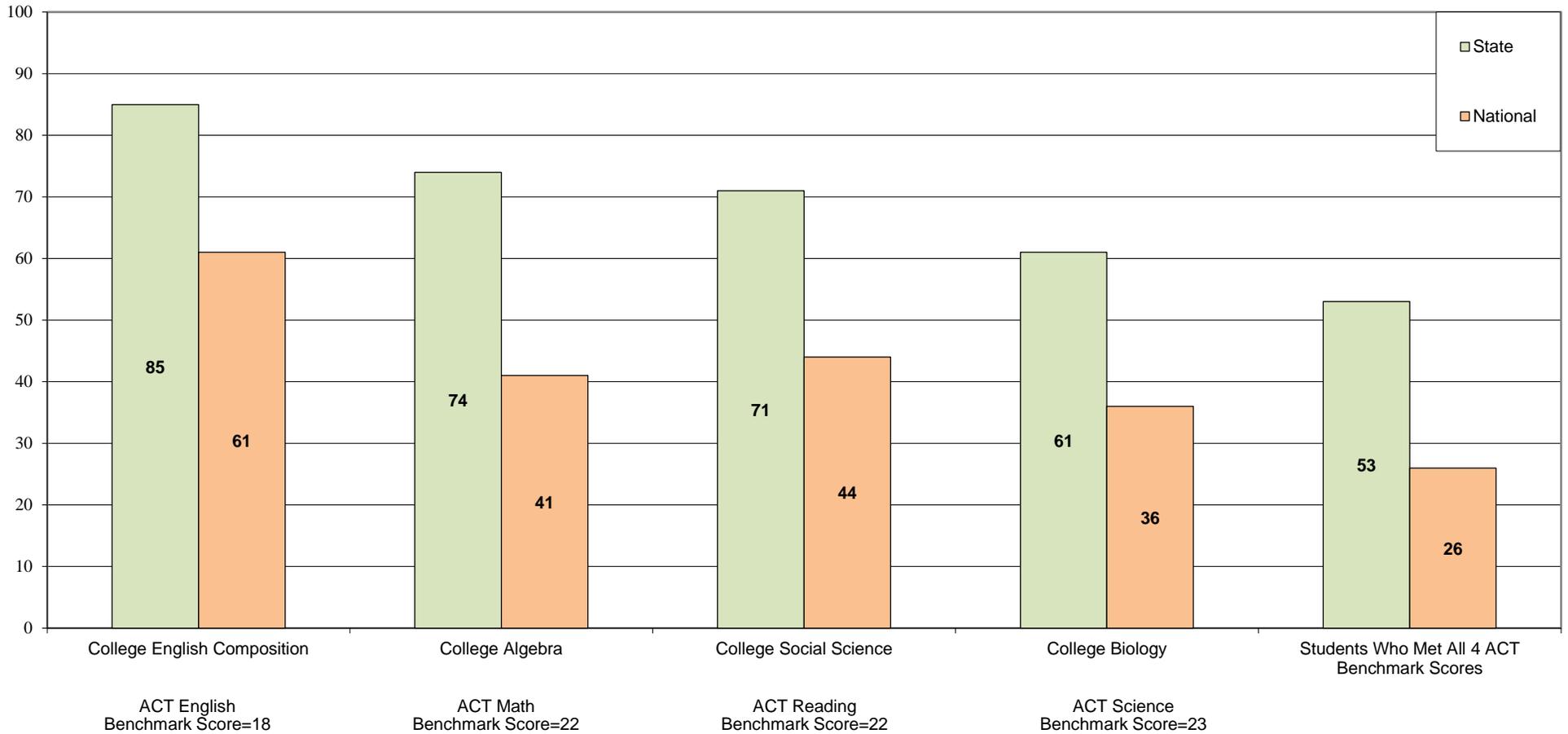
## Executive Summary

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: 20,298

**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	15,398	1,666,017	86	67	73	46	72	52	48	31	44	25
2013	16,058	1,799,243	84	64	72	44	66	44	55	36	46	26
2014	16,651	1,845,787	85	64	72	43	65	44	58	37	47	26
2015	19,617	1,924,436	85	64	71	42	67	46	61	38	51	28
<b>2016</b>	<b>20,298</b>	<b>2,090,342</b>	<b>85</b>	<b>61</b>	<b>74</b>	<b>41</b>	<b>71</b>	<b>44</b>	<b>61</b>	<b>36</b>	<b>53</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	15,398	1,666,017	23.9	20.5	24.5	21.1	24.2	21.3	23.2	20.9	24.1	21.1
2013	16,058	1,799,243	23.8	20.2	24.4	20.9	24.4	21.1	23.2	20.7	24.1	20.9
2014	16,651	1,845,787	24.0	20.3	24.6	20.9	24.5	21.3	23.5	20.8	24.3	21.0
2015	19,617	1,924,436	24.2	20.4	24.6	20.8	24.6	21.4	23.8	20.9	24.4	21.0
<b>2016</b>	<b>20,298</b>	<b>2,090,342</b>	<b>24.4</b>	<b>20.1</b>	<b>24.9</b>	<b>20.6</b>	<b>25.3</b>	<b>21.3</b>	<b>24.1</b>	<b>20.8</b>	<b>24.8</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>

**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									
	Core or More <sup>1</sup>	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
2012	9,840	5,373	64	35	24.1	23.7	24.6	24.3	24.4	23.9	23.4	23.0	24.2	23.9
2013	9,979	5,708	62	36	24.1	23.3	24.6	24.3	24.7	24.0	23.4	23.0	24.3	23.8
2014	10,450	5,897	63	35	24.2	23.9	24.6	24.7	24.7	24.4	23.5	23.5	24.4	24.2
2015	12,172	7,052	62	36	24.3	24.1	24.6	24.7	24.8	24.5	23.8	23.9	24.5	24.4
<b>2016</b>	<b>12,632</b>	<b>7,202</b>	<b>62</b>	<b>35</b>	<b>24.5</b>	<b>24.3</b>	<b>24.9</b>	<b>25.0</b>	<b>25.4</b>	<b>25.2</b>	<b>24.2</b>	<b>24.2</b>	<b>24.9</b>	<b>24.8</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>15,398</b>	<b>100</b>	<b>24.1</b>	<b>16,058</b>	<b>100</b>	<b>24.1</b>	<b>16,651</b>	<b>100</b>	<b>24.3</b>	<b>19,617</b>	<b>100</b>	<b>24.4</b>	<b>20,298</b>	<b>100</b>	<b>24.8</b>
Black/African American	651	4	19.2	691	4	19.0	688	4	19.2	820	4	19.6	855	4	20.1
American Indian/Alaska Native	34	0	22.3	25	0	22.9	34	0	22.4	32	0	22.2	32	0	21.6
White	11,296	73	24.3	11,633	72	24.5	11,985	72	24.6	13,833	71	24.7	14,165	70	25.1
Hispanic/Latino	819	5	21.4	844	5	21.0	953	6	21.3	1,173	6	21.6	1,258	6	21.9
Asian	1,016	7	25.1	1,054	7	25.0	1,204	7	25.4	1,562	8	25.7	1,696	8	26.4
Native Hawaiian/Other Pacific Islander	12	0	24.4	15	0	24.8	6	0	24.2	17	0	21.8	19	0	21.9
Two or more races	361	2	24.6	353	2	23.9	404	2	24.5	480	2	25.2	482	2	25.1
Prefer not to respond/No response	1,209	8	24.9	1,443	9	24.5	1,377	8	25.2	1,700	9	24.8	1,791	9	25.3

**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	15,398	1,666,017	24.1	21.3	38	20	29.3	28.7	27.8	27.9
2013	16,058	1,799,243	24.0	21.1	38	19	29.3	28.7	28.0	28.0
2014	16,651	1,845,787	24.3	21.1	40	20	29.5	28.7	28.3	28.3
2015	19,617	1,924,436	24.4	21.1	42	20	29.3	28.7	28.4	28.4
<b>2016</b>	<b>20,298</b>	<b>2,090,342</b>	<b>24.8</b>	<b>20.9</b>	<b>44</b>	<b>20</b>	<b>29.5</b>	<b>28.7</b>	<b>28.8</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>	<b>3,441</b>	<b>485,762</b>	<b>17</b>	<b>23</b>	<b>17.5</b>	<b>17.0</b>	<b>4,002</b>	<b>322,548</b>	<b>20</b>	<b>15</b>	<b>24.1</b>	<b>23.6</b>	<b>4,702</b>	<b>235,380</b>	<b>23</b>	<b>11</b>	<b>30.9</b>	<b>30.3</b>

<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: 20,298

**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	19,041	94	24.5	25.0	25.2	24.2	24.9
	Extended Time	1,257	6	23.5	23.2	25.7	23.6	24.2
	Total	20,298	100	24.4	24.9	25.3	24.1	24.8
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	86	75	71	61	53
	Extended Time	80	61	70	56	47
	Total	85	74	71	61	53
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: 20,298

**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	248	100	302	100	433	100	395	100	66	100	214	100	36
35	994	99	508	99	810	98	395	98	376	99	425	99	35
34	729	94	471	96	906	94	561	96	564	98	484	97	34
33	694	90	585	94	1,089	89	518	93	660	95	496	94	33
32	595	87	468	91	1,083	84	602	91	771	92	582	92	32
31	766	84	656	89	854	79	512	88	876	88	763	89	31
30	702	80	724	85	1,047	75	381	85	903	84	773	85	30
29	647	77	1,168	82	820	69	781	83	1,082	79	949	82	29
28	971	74	1,531	76	888	65	861	80	1,160	74	1,167	77	28
27	937	69	1,730	68	948	61	955	75	1,345	68	1,389	71	27
26	1,165	64	1,780	60	1,042	56	1,280	71	1,355	62	1,741	64	26
25	1,290	58	1,328	51	918	51	1,881	64	1,437	55	1,680	56	25
24	1,478	52	1,745	45	1,032	47	1,856	55	1,554	48	1,642	47	24
23	1,438	45	1,105	36	1,408	42	1,412	46	1,344	40	1,400	39	23
22	1,239	38	929	31	1,117	35	1,757	39	1,266	34	1,226	32	22
21	1,131	32	576	26	1,130	29	1,031	30	1,113	27	990	26	21
20	1,038	26	711	23	797	24	1,339	25	972	22	987	22	20
19	663	21	782	20	787	20	880	19	856	17	897	17	19
18	603	18	898	16	820	16	747	14	691	13	732	12	18
17	555	15	837	11	461	12	504	11	561	9	650	9	17
16	614	12	775	7	478	9	628	8	489	7	486	5	16
15	596	9	425	3	412	7	295	5	357	4	288	3	15
14	398	6	159	1	371	5	274	4	226	2	168	2	14
13	244	4	70	1	245	3	148	2	170	1	96	1	13
12	163	3	18	1	211	2	104	2	61	1	44	1	12
11	189	2	6	1	85	1	76	1	18	1	11	1	11
10	101	1	5	1	49	1	62	1	12	1	5	1	10
9	57	1	2	1	31	1	26	1	8	1	8	1	9
8	31	1	2	1	7	1	17	1	2	1	2	1	8
7	15	1	1	1	5	1	8	1	1	1	2	1	7
6	6	1	1	1	5	1	1	1	1	1	0	1	6
5	0	1	0	1	6	1	4	1	1	1	0	1	5
4	1	1	0	1	0	1	0	1	0	1	1	1	4
3	0	1	0	1	2	1	4	1	0	1	0	1	3
2	0	1	0	1	0	1	1	1	0	1	0	1	2
1	0	1	0	1	1	1	2	1	0	1	0	1	1
Avg (SD)	24.4 (6.2)		24.9 (5.3)		25.3 (6.3)		24.1 (5.5)		24.8 (5.3)		24.8 (5.1)		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: 20,298

**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	1,849	100	586	100	1,446	100	1,970	100	1,702	100	601	100	748	100	18
17	2,218	91	1,011	97	2,139	93	2,250	90	2,069	92	584	97	168	96	17
16	1,511	80	1,976	92	2,295	82	2,434	79	1,932	81	1,469	94	2,270	95	16
15	1,703	73	2,338	82	1,368	71	2,208	67	2,352	72	2,290	87	2,519	84	15
14	1,211	64	2,165	71	2,597	64	1,494	56	2,190	60	3,157	76	2,880	72	14
13	1,914	58	1,886	60	1,415	51	1,198	49	2,536	50	2,710	60	2,332	58	13
12	1,888	49	2,783	51	1,986	45	1,752	43	1,553	37	2,842	47	2,075	46	12
11	1,932	39	1,763	37	1,404	35	1,797	34	1,694	29	1,981	33	1,691	36	11
10	1,795	30	1,736	29	1,558	28	1,528	26	1,059	21	1,597	23	2,614	28	10
9	1,312	21	1,482	20	1,573	20	887	18	1,176	16	1,396	15	1,389	15	9
8	999	15	1,019	13	1,003	12	802	14	863	10	875	8	803	8	8
7	719	10	671	8	614	7	631	10	745	6	404	4	318	4	7
6	550	6	389	4	420	4	723	7	236	2	159	2	152	2	6
5	396	3	312	2	260	2	422	3	127	1	114	1	199	2	5
4	194	1	121	1	125	1	139	1	44	1	48	1	33	1	4
3	77	1	40	1	33	1	45	1	12	1	52	1	51	1	3
2	29	1	20	1	36	1	16	1	6	1	1	1	8	1	2
1	1	1	0	1	26	1	2	1	2	1	18	1	48	1	1
Avg (SD)	12.6 (3.7)		12.3 (3.2)		12.8 (3.5)		13.0 (3.7)		13.2 (3.2)		12.5 (2.8)		12.5 (2.9)		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)	29	28	31	27	29
Q2 (50th Percentile)	24	25	25	24	25
Q1 (25th Percentile)	20	21	21	20	21

Total Students in Report: 20,298

**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>20,298</b>	<b>62</b>	<b>24.9</b>	<b>24.8</b>
	Black/African American	855	54	20.3	19.9
	American Indian/Alaska Native	32	56	22.9	19.3
	White	14,165	65	25.1	25.2
	Hispanic/Latino	1,258	60	22.3	21.4
	Asian	1,696	55	26.4	26.4
	Native Hawaiian/Other Pac. Isl.	19	58	20.5	24.9
	Two or More Races	482	59	25.1	25.2
	Prefer not/No Response	1,791	57	26.0	25.6
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>20,298</b>	<b>100</b>	24.4	24.9	25.3	24.1	24.8	24.8
	Black/African American	855	4	19.4	20.7	20.3	19.6	20.1	20.4
	American Indian/Alaska Native	32	0	20.8	21.4	21.7	22.0	21.6	21.9
	White	14,165	70	24.8	25.0	25.7	24.4	25.1	25.0
	Hispanic/Latino	1,258	6	21.1	22.2	22.4	21.4	21.9	22.0
	Asian	1,696	8	25.5	28.0	25.8	25.7	26.4	27.1
	Native Hawaiian/Other Pac. Isl.	19	0	21.3	22.3	23.2	20.5	21.9	21.6
	Two or More Races	482	2	25.0	25.1	25.6	24.4	25.1	25.0
	Prefer not/No Response	1,791	9	25.1	25.2	26.0	24.6	25.3	25.1
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: 20,298

**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	9,199	64	25.2	25.2
	Females	11,099	61	24.7	24.5
	No Response	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	9,199	45	24.3	25.7	25.3	24.7	25.1	25.4
	Females	11,099	55	24.5	24.3	25.3	23.7	24.6	24.2
	No Response	0	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

This page intentionally left blank.

# 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: 20,298

**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	2,665	13	1,866	9	3,238	16	1,869	9
	28 to 32	3,681	18	4,547	22	4,692	23	3,137	15
	24 to 27	4,870	24	6,583	32	3,940	19	5,972	29
	20 to 23	4,846	24	3,321	16	4,452	22	5,539	27
	16 to 19	2,435	12	3,292	16	2,546	13	2,759	14
	13 to 15	1,238	6	654	3	1,028	5	717	4
	01 to 12	563	3	35	0	402	2	305	2
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	85	78	71	65	56
	Females	86	71	71	58	50
	No Response	.	.	.	.	.
National	Males	59	44	43	39	28
	Females	64	39	47	34	25
	No Response	39	21	24	18	11

Total Students in Report: 20,298

**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>20,298</b>	<b>85</b>	<b>74</b>	<b>71</b>	<b>61</b>	<b>53</b>	44
	Black/African American	855	56	42	38	27	21	16
	American Indian/Alaska Native	32	72	44	50	44	25	22
	White	14,165	88	76	74	64	55	45
	Hispanic/Latino	1,258	68	55	52	38	31	24
	Asian	1,696	86	87	71	70	60	62
	Native Hawaiian/Other Pac. Isl	19	74	53	68	47	47	21
	Two or More Races	482	88	73	72	61	54	47
	Prefer Not to Respond	1,791	87	74	74	64	56	47
<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>	20
	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	18,391	91	25.8
	Silver	1,633	8	15.8
	Bronze	231	1	12.7
	Needs Improvement	43	0	9.9
<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).

**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>	12,632	87	24.5	75	24.9	72	25.4	61	24.2	53	24.9	44	24.8
	Less than Core	7,202	84	24.3	74	25.0	70	25.2	61	24.2	53	24.8	46	24.9
	Missing <sup>3</sup>	464	72	22.2	50	21.8	58	23.8	51	22.5	39	22.7	30	22.4
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>	19,471	86	24.5	19,656	75	25.0	13,205	71	25.3	19,103	62	24.3
	Less than Core	377	71	22.0	190	48	21.4	6,645	71	25.3	740	40	21.6
	Missing <sup>3</sup>	450	73	22.4	452	50	21.8	448	59	23.9	455	51	22.6
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: 20,298

**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	5,103	25	24.7	87	385,251	18	21.7	71
Eng 9, Eng 10, Eng 11, Eng 12	14,368	71	24.5	86	1,436,604	69	20.4	63
Less than 4 years of English	377	2	22.0	71	121,175	6	15.8	34
Zero years / no English courses reported	450	2	22.4	73	147,312	7	16.6	40
<b>MATHEMATICS COURSE PATTERN</b>								
Alg 1, Alg 2, Geom, Trig, & Calc	2,229	11	26.3	86	125,390	6	23.2	63
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	1,465	7	22.8	64	163,212	8	21.6	52
Alg 1, Alg 2, Geom, & Trig	736	4	21.0	46	126,596	6	18.9	27
Alg 1, Alg 2, Geom, & Other Adv Math	2,284	11	21.2	49	379,347	18	19.3	30
Other comb of 4 or more years of Math	11,099	55	26.6	85	689,169	33	23.6	64
Alg 1, Alg 2, & Geom	644	3	19.2	30	243,569	12	16.8	10
Other comb of 3 or 3.5 years of Math	1,199	6	23.8	69	107,638	5	19.5	32
Less than 3 years of Math	190	1	21.4	48	101,097	5	16.1	8
Zero years / no Math courses reported	452	2	21.8	50	154,324	7	17.8	20
<b>SOCIAL SCIENCE COURSE PATTERN</b>								
US Hist, World Hist, Am Gov, & Other Hist	911	4	25.8	74	51,783	2	22.1	50
Other comb of 4 or more years Social Science	5,444	27	25.1	70	979,530	47	22.3	51
US Hist, World Hist, & Am Gov	767	4	24.7	66	120,501	6	19.6	33
Other comb of 3 or 3.5 years of Social Science	6,083	30	25.5	73	555,590	27	21.4	45
Less than 3 years of Social Science	6,645	33	25.3	71	229,685	11	19.2	32
Zero years / no Social Science courses reported	448	2	23.9	59	153,253	7	18.2	25
<b>NATURAL SCIENCE COURSE PATTERN</b>								
Gen Sci <sup>1</sup> , Bio, Chem, & Phys	12,635	62	24.6	64	844,557	40	22.1	46
Bio, Chem, Phys	4,087	20	24.8	66	233,024	11	23.0	52
Gen Sci <sup>1</sup> , Bio, Chem	2,144	11	21.7	42	542,380	26	20.0	29
Other comb of 3 years of Natural Science	237	1	22.6	51	59,600	3	19.0	23
Less than 3 years of Natural Science	740	4	21.6	40	255,155	12	18.0	17
Zero years / no Natural Science courses reported	455	2	22.6	51	155,626	7	18.0	19

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

Total Students in Report: 20,298

**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	5,103	25	24.7	87	2,112	23	24.4	85	2,991	27	24.8	88
Eng 9, Eng 10, Eng 11, Eng 12	14,368	71	24.5	86	6,631	72	24.4	85	7,737	70	24.5	86
Less than 4 years of English	377	2	22.0	71	183	2	21.4	64	194	2	22.5	77
Zero years / no English courses reported	450	2	22.4	73	273	3	22.2	73	177	2	22.7	72
<b>MATHEMATICS COURSE PATTERN</b>												
Alg 1, Alg 2, Geom, Trig, & Calc	2,229	11	26.3	86	945	10	26.9	88	1,284	12	25.9	84
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	1,465	7	22.8	64	518	6	23.5	69	947	9	22.4	61
Alg 1, Alg 2, Geom, & Trig	736	4	21.0	46	283	3	21.6	52	453	4	20.7	42
Alg 1, Alg 2, Geom, & Other Adv Math	2,284	11	21.2	49	800	9	21.7	55	1,484	13	20.9	46
Other comb of 4 or more years of Math	11,099	55	26.6	85	5,544	60	27.2	87	5,555	50	26.0	82
Alg 1, Alg 2, & Geom	644	3	19.2	30	245	3	19.2	30	399	4	19.2	30
Other comb of 3 or 3.5 years of Math	1,199	6	23.8	69	510	6	23.9	70	689	6	23.8	69
Less than 3 years of Math	190	1	21.4	48	81	1	22.0	57	109	1	21.0	42
Zero years / no Math courses reported	452	2	21.8	50	273	3	21.9	50	179	2	21.7	50
<b>SOCIAL SCIENCE COURSE PATTERN</b>												
US Hist, World Hist, Am Gov, & Other Hist	911	4	25.8	74	463	5	25.4	71	448	4	26.2	77
Other comb of 4 or more years Social Science	5,444	27	25.1	70	2,703	29	25.0	70	2,741	25	25.2	71
US Hist, World Hist, & Am Gov	767	4	24.7	66	389	4	24.1	61	378	3	25.3	71
Other comb of 3 or 3.5 years of Social Science	6,083	30	25.5	73	2,556	28	25.7	74	3,527	32	25.4	72
Less than 3 years of Social Science	6,645	33	25.3	71	2,815	31	25.4	71	3,830	35	25.2	70
Zero years / no Social Science courses reported	448	2	23.9	59	273	3	23.7	57	175	2	24.4	62
<b>NATURAL SCIENCE COURSE PATTERN</b>												
Gen Sci <sup>1</sup> , Bio, Chem, & Phys	12,635	62	24.6	64	5,911	64	25.0	67	6,724	61	24.1	62
Bio, Chem, Phys	4,087	20	24.8	66	1,942	21	25.7	71	2,145	19	24.0	61
Gen Sci <sup>2</sup> , Bio, Chem	2,144	11	21.7	42	681	7	21.4	42	1,463	13	21.9	43
Other comb of 3 years of Natural Science	237	1	22.6	51	132	1	23.6	58	105	1	21.3	44
Less than 3 years of Natural Science	740	4	21.6	40	257	3	21.2	37	483	4	21.8	42
Zero years / no Natural Science courses reported	455	2	22.6	51	276	3	22.7	53	179	2	22.4	50

<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: 20,298

**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	143	1	23.8	1	1	17.0	123	1	23.7
Architecture	152	1	23.4	1	1	19.0	134	1	23.6
Area, Ethnic, & Multidisciplinary Studies	41	0	23.5	0	0	.	34	0	23.1
Arts: Visual & Performing	729	4	23.7	4	4	18.8	641	4	23.6
Business	2,852	14	23.9	28	29	20.8	2,433	15	23.9
Communications	475	2	23.5	2	2	18.0	417	2	23.4
Community, Family, & Personal Services	144	1	20.7	3	3	19.3	126	1	20.7
Computer Science & Mathematics	840	4	26.6	8	8	20.4	709	4	26.6
Education	653	3	22.2	3	3	21.0	583	3	22.2
Engineering	1,951	10	26.6	4	4	26.5	1,718	10	26.5
Engineering Technology & Drafting	142	1	23.0	1	1	20.0	121	1	23.0
English & Foreign Languages	299	1	26.4	2	2	19.5	255	2	26.3
Health Administration & Assisting	227	1	20.7	2	2	17.0	192	1	20.8
Health Sciences & Technologies	2,664	13	23.8	6	6	21.8	2,401	14	23.8
Philosophy, Religion, & Theology	41	0	24.7	0	0	.	38	0	24.5
Repair, Production, & Construction	16	0	20.8	5	5	17.6	7	0	23.3
Sciences: Biological & Physical	2,268	11	26.3	5	5	19.0	2,013	12	26.3
Social Sciences & Law	1,552	8	24.4	3	3	24.0	1,390	8	24.4
Undecided	4,719	23	25.4	19	19	21.8	3,417	20	25.2
No Response	389	2	23.3	0	0	.	25	0	24.5

<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: 20,298

**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	58	21.3	1	12.0	2	16.0	33	22.4	2	16.0
2-yr College Degree	40	19.8	3	13.7	0	.	21	18.7	7	17.4
Bachelors Degree	6,840	22.9	244	18.0	15	19.6	5,229	23.3	431	20.4
Graduate Study	5,495	25.7	149	21.3	8	25.6	4,191	25.8	280	23.3
Prof. Level Degree	4,442	26.5	302	21.7	6	24.2	2,742	27.0	332	23.4
Other	188	23.1	9	18.2	0	.	110	23.4	13	22.2
No Response	3,235	25.3	147	19.3	1	15.0	1,839	26.2	193	20.8

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	58	21.3	14	20.4	1	17.0	1	29.0	4	23.3
2-yr College Degree	40	19.8	6	28.5	0	.	2	21.0	1	21.0
Bachelors Degree	6,840	22.9	398	23.5	8	22.8	167	22.8	348	23.7
Graduate Study	5,495	25.7	363	27.3	3	25.3	119	25.9	382	26.1
Prof. Level Degree	4,442	26.5	547	27.8	3	19.3	135	26.9	375	27.2
Other	188	23.1	26	23.6	0	.	8	23.3	22	23.1
No Response	3,235	25.3	342	26.8	4	20.8	50	26.5	659	24.7

Total Students in Report: 20,298

**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
UNIV OF MASSACHUSETTS AMHERST	Massachusetts	1,230	379	851	0	3	11	26	33	23	4
NORTHEASTERN UNIVERSITY	Massachusetts	631	201	430	0	2	7	16	34	32	9
BOSTON UNIVERSITY	Massachusetts	486	155	331	1	2	9	19	34	29	6
UNIV OF MASSACHUSETTS LOWELL	Massachusetts	463	104	359	0	6	19	31	28	13	2
UNIVERSITY OF NEW HAMPSHIRE	New Hampshire	371	78	293	0	2	16	35	33	14	1
BOSTON COLLEGE	Massachusetts	288	90	198	1	2	8	16	31	35	8
WORCESTER POLYTECHNIC INST	Massachusetts	280	74	206	0	1	4	15	31	36	13
UNIV OF MASSACHUSETTS-DARTMOUTH	Massachusetts	264	60	204	0	11	23	34	25	6	1
BRIDGEWATER STATE UNIVERSITY	Massachusetts	254	78	176	1	10	37	33	16	3	0
SALEM STATE UNIVERSITY	Massachusetts	248	74	174	1	13	37	30	15	4	0
UNIVERSITY OF RHODE ISLAND	Rhode Island	244	43	201	0	4	17	33	29	15	2
UNIVERSITY OF CONNECTICUT	Connecticut	241	44	197	0	1	9	26	40	22	2
UNIV OF MASSACHUSETTS BOSTON	Massachusetts	218	46	172	1	14	28	28	19	9	0
TUFTS UNIVERSITY	Massachusetts	214	92	122	0	1	7	12	21	41	18
UNIVERSITY OF VERMONT	Vermont	214	43	171	0	0	7	20	38	31	3
WESTFIELD STATE UNIVERSITY	Massachusetts	210	50	160	1	12	33	36	14	4	0
WORCESTER STATE UNIVERSITY	Massachusetts	185	43	142	2	14	31	34	16	3	0
FRAMINGHAM STATE UNIVERSITY	Massachusetts	161	41	120	2	16	34	31	15	2	0
QUINNIPIAC UNIVERSITY	Connecticut	156	24	132	0	1	15	34	35	13	2
BROWN UNIVERSITY	Rhode Island	150	63	87	0	0	1	11	21	47	21
WENTWORTH INSTITUTE OF TECHNOLOGY	Massachusetts	147	38	109	1	3	13	35	34	12	3
FITCHBURG STATE UNIVERSITY	Massachusetts	145	40	105	1	13	37	30	14	6	0
BENTLEY UNIVERSITY	Massachusetts	137	51	86	0	2	11	26	42	18	1
ENDICOTT COLLEGE	Massachusetts	137	35	102	1	5	22	45	25	3	0
SUFFOLK UNIVERSITY	Massachusetts	126	32	94	2	10	26	31	22	6	2
MASSACHUSETTS COLL PHARM/HLTH SCIENCES	Massachusetts	124	38	86	0	4	23	31	30	12	0
HARVARD COLLEGE	Massachusetts	117	47	70	1	2	7	10	21	39	20
MERRIMACK COLLEGE	Massachusetts	116	19	97	0	4	28	34	22	10	1
ROGER WILLIAMS UNIVERSITY	Rhode Island	111	30	81	1	2	14	41	29	14	1
NCAA ELIGIBILITY CENTER	Indiana	110	89	21	2	4	9	24	37	15	9
All Other Institutions		8,106	2,219	5,887	1	3	13	22	30	24	7
<b>Total</b>		<b>15,884</b>	<b>4,420</b>	<b>11,464</b>	<b>1</b>	<b>4</b>	<b>14</b>	<b>24</b>	<b>29</b>	<b>22</b>	<b>6</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.

**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>**

	N		Average ACT Scores							
			Writing		English		Reading		English / Language Arts	
			State	National	State	National	State	National	State	National
<b>All Students</b>	<b>10,352</b>	<b>519,922</b>	<b>22.1</b>	<b>19.3</b>	<b>24.5</b>	<b>21.8</b>	<b>25.3</b>	<b>22.9</b>	<b>24.0</b>	<b>21.3</b>
Black/African American	515	67,101	19.3	16.2	19.8	17.6	20.6	19.1	19.9	17.6
American Indian/Alaska Native	13	3,056	19.6	16.1	21.5	17.6	22.0	19.3	21.1	17.7
White	6,831	234,063	22.4	20.4	25.0	23.9	25.8	24.7	24.4	23.0
Hispanic/Latino	724	116,135	20.7	17.8	21.3	18.8	22.5	20.3	21.5	19.0
Asian	1,092	44,606	22.4	21.5	25.1	24.5	25.3	24.7	24.2	23.6
Native Hawaiian/Other Pac. Isl.	9	1,742	19.1	19.3	21.6	20.6	21.4	21.4	20.8	20.4
Two or More Races	281	21,475	22.4	19.9	24.8	22.6	25.4	23.6	24.2	22.0
Prefer not/No Response	887	31,744	22.3	19.9	25.1	22.8	26.1	23.8	24.5	22.2
Males	4,329	220,204	21.8	18.9	24.5	21.9	25.3	22.9	23.9	21.2
Females	6,023	298,512	22.3	19.6	24.5	21.8	25.3	22.8	24.0	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>**

	N		Average ACT Scores					
			English		Writing		English / Writing Combined	
			State	National	State	National	State	National
<b>All Students</b>	<b>7,356</b>	<b>754,169</b>	<b>25.4</b>	<b>19.6</b>	<b>7.8</b>	<b>6.2</b>	<b>24.3</b>	<b>18.6</b>
Black/African American	204	85,940	20.2	14.6	6.9	5.1	19.7	13.9
American Indian/Alaska Native	13	5,558	20.3	15.2	6.9	5.0	19.8	14.2
White	5,402	407,944	25.6	21.4	7.8	6.5	24.4	20.2
Hispanic/Latino	370	115,338	21.9	17.1	7.2	6.0	21.2	16.5
Asian	480	30,233	27.7	23.2	8.1	7.1	26.2	22.0
Native Hawaiian/Other Pac. Isl.	8	3,063	21.9	15.9	6.9	5.6	20.6	15.3
Two or More Races	150	32,453	26.5	19.6	7.8	6.2	25.2	18.5
Prefer not/No Response	729	73,640	25.8	18.8	7.7	6.0	24.5	17.7
Males	3,525	367,696	25.2	19.2	7.6	5.9	24.0	18.0
Females	3,831	356,634	25.6	20.3	7.9	6.6	24.5	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.