

ACT Profile Report - State

Graduating Class 2014

Alaska



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This report provides information about the performance of your 2014 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 2014. 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/standard/infoserv.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 and Biology. These scores were empirically derived based on the actual performance of students in college. The College Readiness Benchmark Scores, updated in August of 2013, are:

College Course/Course Area	ACT Test	Benchmark Score
English Composition	English	18
Algebra	Mathematics	22
Social Sciences	Reading	22
Biology	Science	23

For more information, go to www.act.org

How to Improve Scores and Increase College Readiness

28% 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: 2,659 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 3.2 reports 8% of the cohort took less than three years of math courses. Of these students, 4% were college ready. 14% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 18% of these students were college ready. In comparison, 63% 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 3.2 reports 18% of the cohort took less than three years of natural science courses. 25% of these students were college ready. In comparison, 45% of students who took at least three years of science coursework were college ready.

EVALUATING RIGOR OF COURSES: Table 2.6 reports the percentage of students falling in each of the ACT College Readiness Standards score ranges. For example, approximately 45% 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.

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 319-337-1309 or customerservices@act.org.

Section I

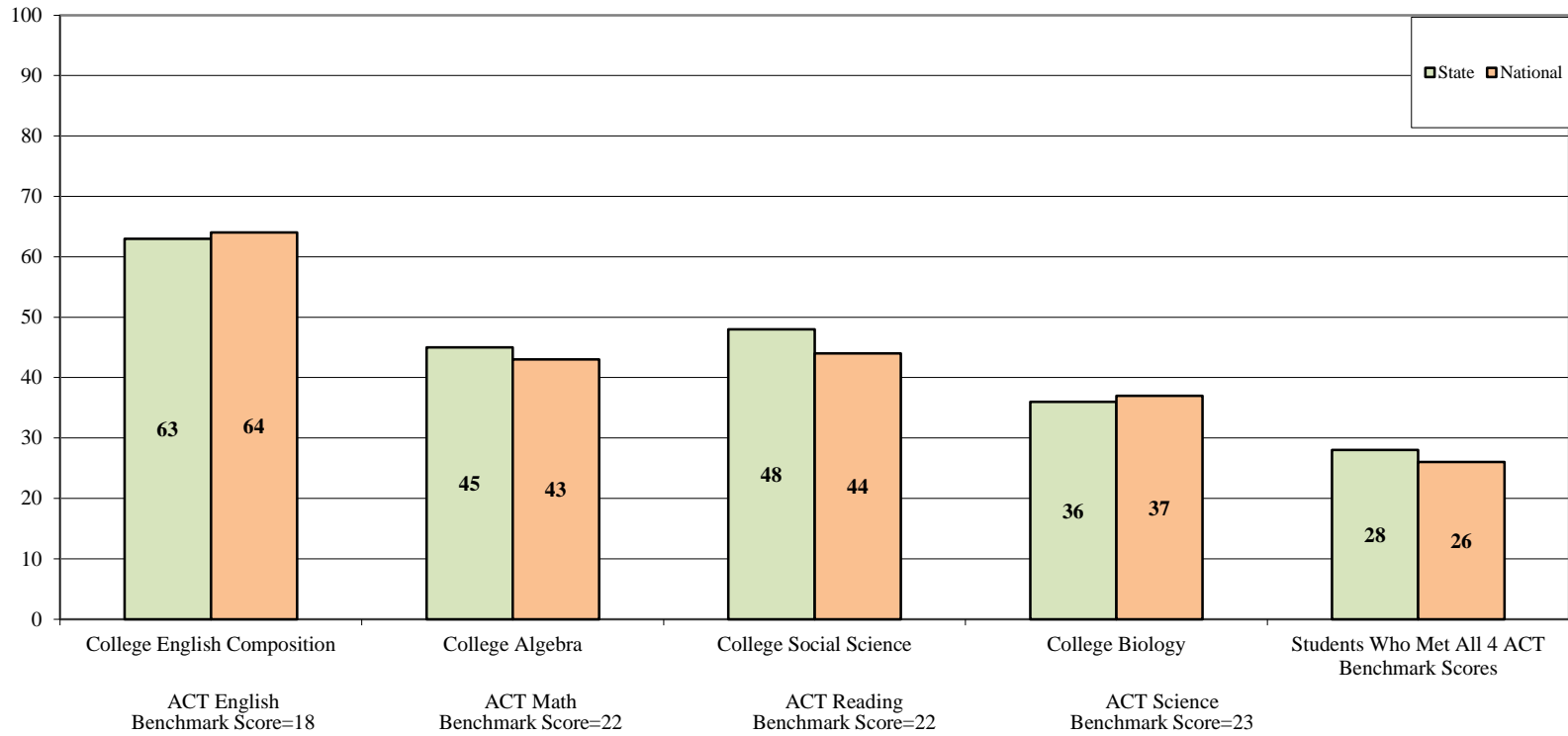
Executive Summary

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 10.

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: 2,659

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
2010	2,228	1,568,835	65	66	47	43	55	52	31	29	26	24
2011	3,022	1,623,112	65	66	47	45	56	52	30	30	25	25
2012	2,598	1,666,017	67	67	48	46	56	52	30	31	26	25
2013	2,724	1,799,243	65	64	48	44	48	44	38	36	28	26
2014	2,659	1,845,787	63	64	45	43	48	44	36	37	28	26

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
2010	2,228	1,568,835	20.3	20.5	21.2	21.0	21.7	21.3	20.9	20.9	21.1	21.0
2011	3,022	1,623,112	20.3	20.6	21.4	21.1	21.7	21.3	21.0	20.9	21.2	21.1
2012	2,598	1,666,017	20.3	20.5	21.3	21.1	21.8	21.3	20.8	20.9	21.2	21.1
2013	2,724	1,799,243	20.1	20.2	21.2	20.9	21.7	21.1	21.0	20.7	21.1	20.9
2014	2,659	1,845,787	19.9	20.3	21.1	20.9	21.6	21.3	20.8	20.8	21.0	21.0

Table 1.3. Five Year Trends—Average ACT Scores Nationwide

Year	Number of Students Tested	Average ACT Scores				
		English	Mathematics	Reading	Science	Composite
2010	1,568,835	20.5	21.0	21.3	20.9	21.0
2011	1,623,112	20.6	21.1	21.3	20.9	21.1
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

Total Students in Report: 2,659

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

Year	Number of Students Tested		Percent ²		Average ACT Scores									
	Core or More ¹	Less than Core	Core or More	Less than Core	English		Mathematics		Reading		Science		Composite	
					Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core
2010	1,275	479	57	21	22.9	19.7	23.4	19.9	24.2	21.3	22.9	20.1	23.5	20.3
2011	1,698	811	56	27	22.6	18.9	23.3	19.7	23.7	20.7	22.8	19.6	23.2	19.9
2012	1,568	695	60	27	22.5	18.8	23.2	19.3	23.8	20.3	22.5	19.5	23.1	19.6
2013	1,701	696	62	26	22.0	18.6	22.9	19.0	23.4	20.4	22.5	19.6	22.8	19.5
2014	1,646	667	62	25	21.8	18.7	22.8	19.2	23.5	20.6	22.3	19.6	22.7	19.6

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

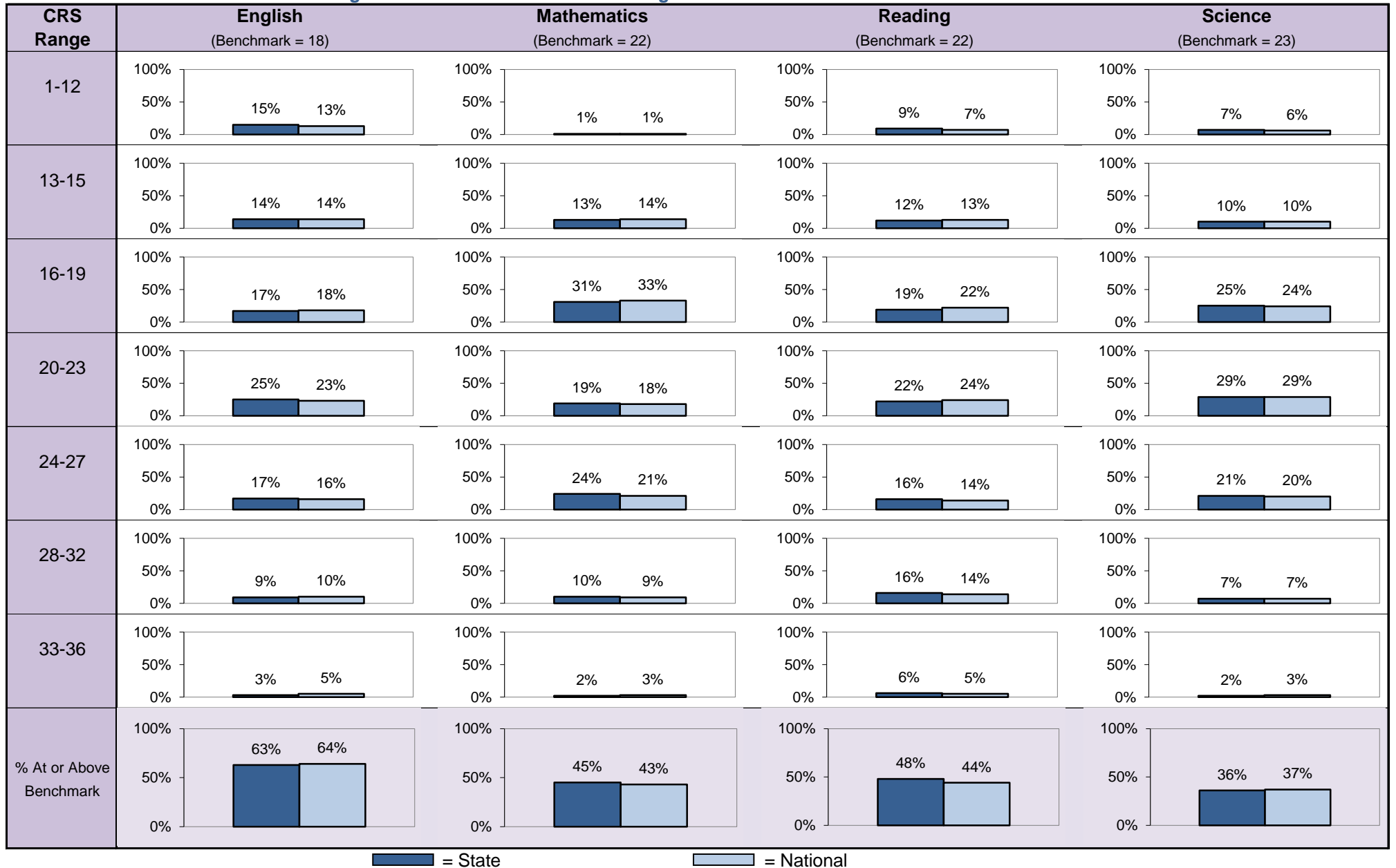
²Percent of all students tested. Numbers will not add up to 100% due to student non-response.

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

	2010			2011			2012			2013			2014		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
All Students	2,228	100	21.1	3,022	100	21.2	2,598	100	21.2	2,724	100	21.1	2,659	100	21.0
Black/African American	72	3	16.7	120	4	18.5	79	3	17.8	74	3	17.6	59	2	17.3
American Indian/Alaska Native	351	16	17.0	280	9	17.1	315	12	15.5	343	13	16.1	306	12	15.9
White	1,214	54	23.5	1,610	53	23.2	1,413	54	23.1	1,445	53	23.1	1,372	52	23.1
Hispanic/Latino	50	2	20.3	133	4	20.5	142	5	20.3	176	6	20.1	159	6	20.3
Asian	152	7	21.0	230	8	19.9	159	6	20.0	163	6	20.0	165	6	19.8
Native Hawaiian/Other Pacific Islander	0	0	.	15	0	17.7	33	1	16.6	35	1	17.5	27	1	16.2
Two or more races	59	3	22.1	226	7	20.8	246	9	21.5	270	10	20.7	286	11	21.0
Prefer not to respond/No response	330	15	17.7	408	14	18.1	211	8	19.7	218	8	20.0	285	11	18.4

Total Students in Report: 2,659

Table 1.6. Percent of Students in College Readiness Standards Score Ranges



Total Students in Report: 2,659

Table 1.7. 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	2,636	99	19.9	21.1	21.7	20.8	21.0
	Extended Time	23	1	17.3	18.3	18.6	17.6	18.0
	Total	2,659	100	19.9	21.1	21.6	20.8	21.0
National	Standard Time	1,769,033	96	20.5	21.0	21.4	20.9	21.1
	Extended Time	76,754	4	16.2	17.8	18.5	18.1	17.8
	Total	1,845,787	100	20.3	20.9	21.3	20.8	21.0

Table 1.8. 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	64	45	48	37	28
	Extended Time	48	26	30	22	17
	Total	63	45	48	36	28
National	Standard Time	65	44	45	37	27
	Extended Time	37	21	30	21	15
	Total	64	43	44	37	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: 2,659

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

ACT Score	English		Mathematics		Reading		Science		Composite		ACT Score
	N	CP	N	CP	N	CP	N	CP	N	CP	
36	4	100	1	100	18	100	13	100	1	100	36
35	24	100	11	100	24	99	18	100	5	100	35
34	33	99	15	100	49	98	17	99	16	100	34
33	32	98	26	99	59	97	17	98	14	99	33
32	38	97	21	98	78	94	24	98	26	99	32
31	29	95	21	97	100	91	38	97	49	98	31
30	47	94	46	96	94	88	27	95	48	96	30
29	64	92	69	95	76	84	30	94	79	94	29
28	67	90	104	92	81	81	62	93	108	91	28
27	68	87	137	88	86	78	101	91	122	87	27
26	110	85	144	83	94	75	96	87	118	82	26
25	128	81	160	78	108	71	159	83	158	78	25
24	145	76	204	72	150	67	195	77	127	72	24
23	145	70	135	64	138	62	172	70	158	67	23
22	183	65	110	59	126	57	222	64	178	61	22
21	149	58	129	55	203	52	198	55	204	55	21
20	200	52	125	50	122	44	177	48	160	47	20
19	111	45	142	45	174	40	230	41	157	41	19
18	111	41	154	40	124	33	164	32	161	35	18
17	87	37	234	34	102	28	142	26	161	29	17
16	130	33	292	25	108	25	122	21	132	23	16
15	141	28	217	14	100	20	88	16	111	18	15
14	125	23	100	6	123	17	91	13	119	14	14
13	97	18	34	2	83	12	83	10	112	9	13
12	78	15	15	1	99	9	73	7	74	5	12
11	59	12	6	1	56	5	43	4	36	2	11
10	105	10	3	1	39	3	29	2	14	1	10
9	51	6	2	1	27	2	14	1	6	1	9
8	47	4	2	1	7	1	7	1	4	1	8
7	27	2	0	1	5	1	4	1	0	1	7
6	14	1	0	1	0	1	0	1	1	1	6
5	6	1	0	1	1	1	2	1	0	1	5
4	3	1	0	1	2	1	1	1	0	1	4
3	1	1	0	1	1	1	0	1	0	1	3
2	0	1	0	1	1	1	0	1	0	1	2
1	0	1	0	1	1	1	0	1	0	1	1
Avg (SD)	19.9 (6.6)		21.1 (5.2)		21.6 (6.6)		20.8 (5.3)		21.0 (5.4)		Avg (SD)

¹CP 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: 2,659

Table 2.2. ACT Subscore Distributions, Cumulative Percentages (CP¹), 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	73	100	10	100	78	100	80	100	64	100	10	100	14	100	18
17	117	97	39	100	144	97	195	97	102	98	25	100	12	99	17
16	89	93	98	98	192	92	182	90	152	94	52	99	102	99	16
15	126	90	181	94	128	84	152	83	154	88	137	97	148	95	15
14	101	85	190	88	198	80	142	77	207	82	258	92	208	90	14
13	175	81	252	81	241	72	224	72	249	74	308	82	225	82	13
12	180	74	269	71	260	63	218	63	262	65	277	70	330	73	12
11	273	68	271	61	212	53	252	55	204	55	273	60	312	61	11
10	262	57	260	51	222	45	179	46	186	48	374	50	325	49	10
9	252	47	265	41	198	37	299	39	232	41	326	36	374	37	9
8	230	38	240	31	261	30	154	28	282	32	233	23	233	23	8
7	170	29	171	22	223	20	145	22	287	21	166	15	131	14	7
6	174	23	92	16	136	11	124	16	173	10	109	8	88	9	6
5	173	16	137	12	85	6	191	12	64	4	37	4	75	6	5
4	118	10	109	7	32	3	68	5	30	2	39	3	21	3	4
3	93	5	59	3	29	2	35	2	7	1	16	1	40	2	3
2	42	2	12	1	9	1	17	1	4	1	16	1	6	1	2
1	11	1	4	1	11	1	2	1	0	1	3	1	15	1	1
Avg (SD)	9.8 (4.0)		10.2 (3.5)		11.0 (3.8)		10.9 (4.0)		10.9 (3.5)		10.6 (3.0)		10.6 (3.1)		Avg (SD)

¹CP 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)	24	25	27	24	25
Q2 (50th Percentile)	20	21	21	21	21
Q1 (25th Percentile)	15	16	17	17	17

Total Students in Report: 2,659

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 ¹	Average ACT Composite Score	
				Core or More	Less Than Core
State	All Students	2,659	62	22.7	19.6
	Black/African American	59	56	18.3	16.0
	American Indian/Alaska Native	306	32	18.9	15.2
	White	1,372	72	23.9	21.1
	Hispanic/Latino	159	68	21.2	18.5
	Asian	165	71	20.2	19.4
	Native Hawaiian/Other Pac. Isl.	27	44	17.6	15.7
	Two or more races	286	67	21.8	19.5
	Prefer not/No Response	285	34	23.8	20.4
National	All Students	1,845,787	73	21.8	18.9
	Black/African American	241,678	68	17.6	15.7
	American Indian/Alaska Native	14,263	62	19.0	16.5
	White	1,038,435	76	23.1	20.2
	Hispanic/Latino	281,216	71	19.5	17.3
	Asian	80,370	79	24.2	21.6
	Native Hawaiian/Other Pac. Isl.	5,676	65	20.0	16.6
	Two or more races	70,013	74	22.0	19.2
	Prefer not/No Response	114,136	56	22.6	18.5

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

Table 2.5. Average ACT Scores by Race/Ethnicity

Student Group	Race/Ethnicity	English	Mathematics	Reading	Science	Composite
State	All Students	19.9	21.1	21.6	20.8	21.0
	Black/African American	15.6	17.3	17.9	17.7	17.3
	American Indian/Alaska Native	13.8	17.4	16.0	16.1	15.9
	White	22.4	22.7	24.1	22.7	23.1
	Hispanic/Latino	19.1	20.1	21.3	20.1	20.3
	Asian	18.1	21.0	19.4	20.1	19.8
	Native Hawaiian/Other Pac. Isl.	13.9	17.8	15.5	17.1	16.2
	Two or more races	20.1	20.9	21.8	20.6	21.0
	Prefer not/No Response	16.8	18.9	18.7	18.6	18.4
National	All Students	20.3	20.9	21.3	20.8	21.0
	Black/African American	15.8	17.2	17.3	17.0	17.0
	American Indian/Alaska Native	16.6	18.1	18.4	18.3	18.0
	White	22.0	22.0	22.8	22.1	22.3
	Hispanic/Latino	17.7	19.2	19.1	18.8	18.8
	Asian	22.8	24.9	22.8	23.2	23.5
	Native Hawaiian/Other Pac. Isl.	17.5	19.2	18.7	18.6	18.6
	Two or more races	20.6	20.9	21.7	21.0	21.2
	Prefer not/No Response	20.0	20.7	21.1	20.5	20.7

Total Students in Report: 2,659

Table 2.6. Percent of Students in College Readiness Standards (CRS) Score Ranges

Student Group	CRS Range	English		Mathematics		Reading		Science	
		N	%	N	%	N	%	N	%
State	33 to 36	93	3	53	2	150	6	65	2
	28 to 32	245	9	261	10	429	16	181	7
	24 to 27	451	17	645	24	438	16	551	21
	20 to 23	677	25	499	19	589	22	769	29
	16 to 19	439	17	822	31	508	19	658	25
	13 to 15	363	14	351	13	306	12	262	10
	01 to 12	391	15	28	1	239	9	173	7
National	33 to 36	92,922	5	55,103	3	97,714	5	55,222	3
	28 to 32	185,768	10	174,260	9	257,722	14	128,357	7
	24 to 27	302,723	16	383,630	21	263,034	14	367,160	20
	20 to 23	431,178	23	336,283	18	445,726	24	542,581	29
	16 to 19	330,518	18	616,601	33	409,685	22	448,064	24
	13 to 15	264,127	14	266,401	14	240,948	13	186,262	10
	01 to 12	238,551	13	13,509	1	130,958	7	118,141	6

Table 2.7. Average ACT Scores by Gender

Student Group	Gender	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Males	1,155	43	19.7	21.7	21.5	21.2	21.1
	Females	1,504	57	20.0	20.6	21.8	20.4	20.8
	Missing	0	0
National	Males	856,651	46	20.0	21.4	21.1	21.2	21.1
	Females	977,127	53	20.7	20.5	21.5	20.5	20.9
	Missing	12,009	1	15.7	17.8	17.3	17.4	17.2

Table 2.8. 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	62	50	47	40	30
	Females	65	42	49	34	26
National	Males	62	47	43	40	29
	Females	66	40	45	34	25

Total Students in Report: 2,659

Table 2.9. College Readiness Benchmark (CRB) Percent and Average ACT Scores by Overall High School Curriculum

Student Group	Curriculum Taken ¹	N	English		Mathematics		Reading		Science		Composite	
			CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB % ⁴	Avg
State	Core or More ²	1,646	76	21.8	59	22.8	59	23.5	47	22.3	37	22.7
	Less than Core	667	56	18.7	28	19.2	41	20.6	27	19.6	17	19.6
	Missing ³	346	17	12.9	11	16.6	10	14.9	7	15.7	3	15.1
National	Core or More	1,347,997	71	21.4	50	21.7	50	22.2	42	21.6	31	21.8
	Less than Core	405,073	48	17.9	27	18.9	30	19.2	23	18.9	15	18.9
	Missing	92,717	36	16.0	18	17.7	23	17.7	16	17.6	10	17.4

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

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

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

⁴ Composite CRB% results reflect students who met all four subject-area benchmarks.

Table 2.10. College Readiness Benchmark (CRB) Percent and Average ACT Scores by Content-Specific Curriculum

Student Group	Curriculum Taken ¹	English			Mathematics			Reading			Science		
		N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg
State	Core or More ²	2,241	71	21.0	2,091	55	22.3	2,213	54	22.7	1,833	45	22.1
	Less than Core	78	51	18.3	223	4	16.4	104	42	21.0	483	25	19.4
	Missing ³	340	16	12.9	345	11	16.6	342	10	14.9	343	6	15.7
National	Core or More	1,676,095	67	20.8	1,686,194	46	21.3	1,580,108	47	21.7	1,538,158	41	21.4
	Less than Core	88,420	36	15.9	74,627	8	16.4	180,385	32	19.4	220,701	17	18.1
	Missing	81,272	38	16.3	84,966	19	17.8	85,294	24	17.8	86,928	17	17.7

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

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

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

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

Section III

College 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.

Figure 3.1. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: ENGLISH

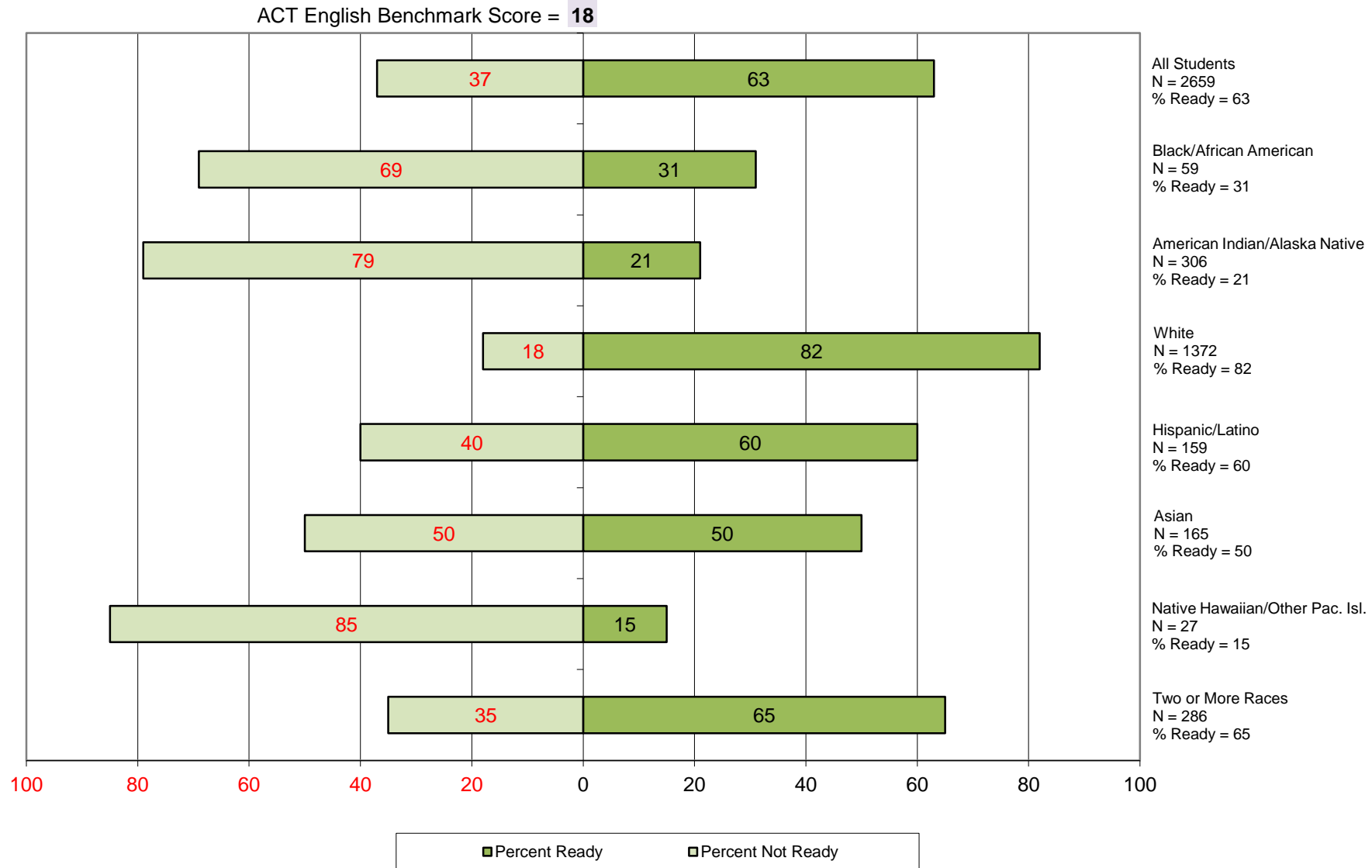


Figure 3.2. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

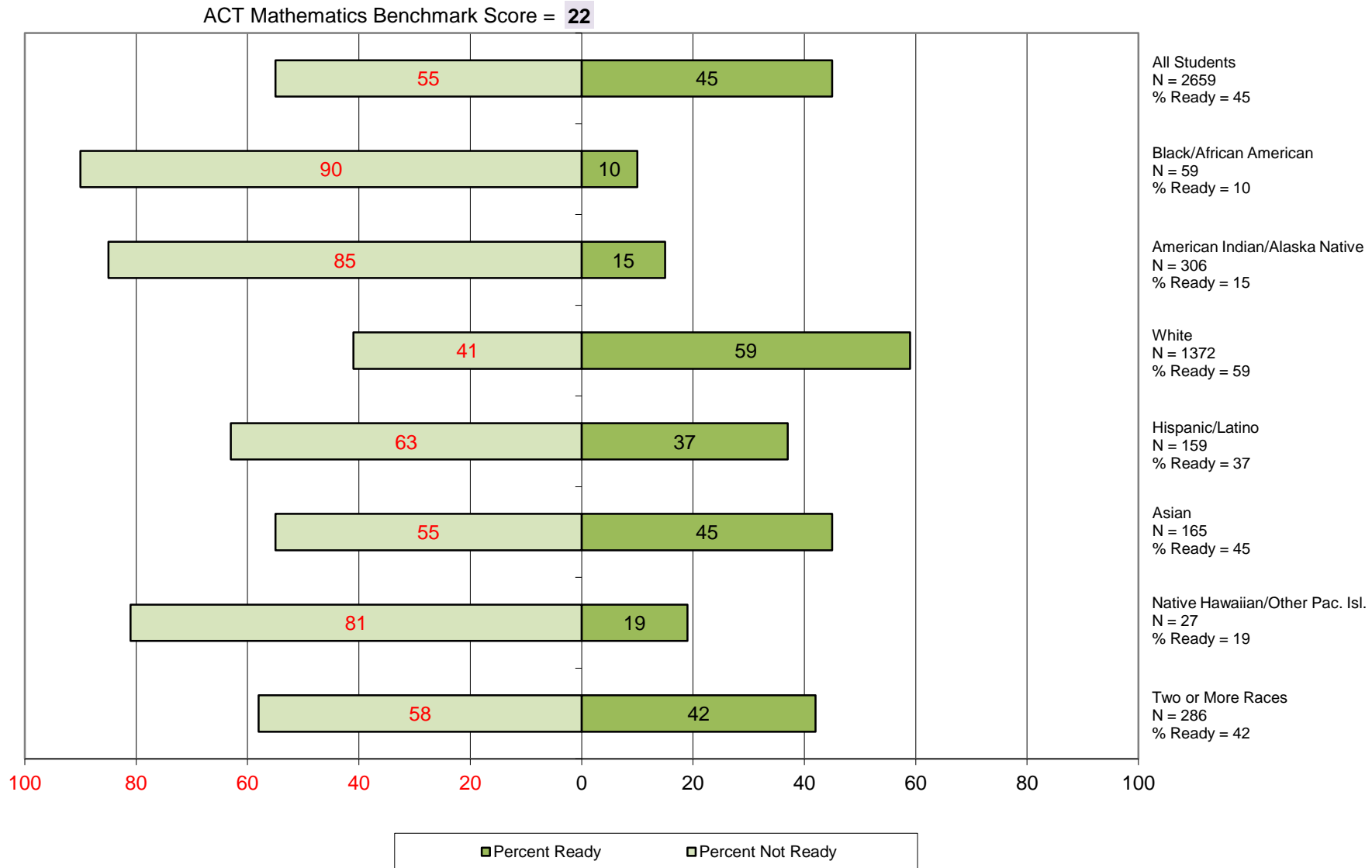


Figure 3.3. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: READING

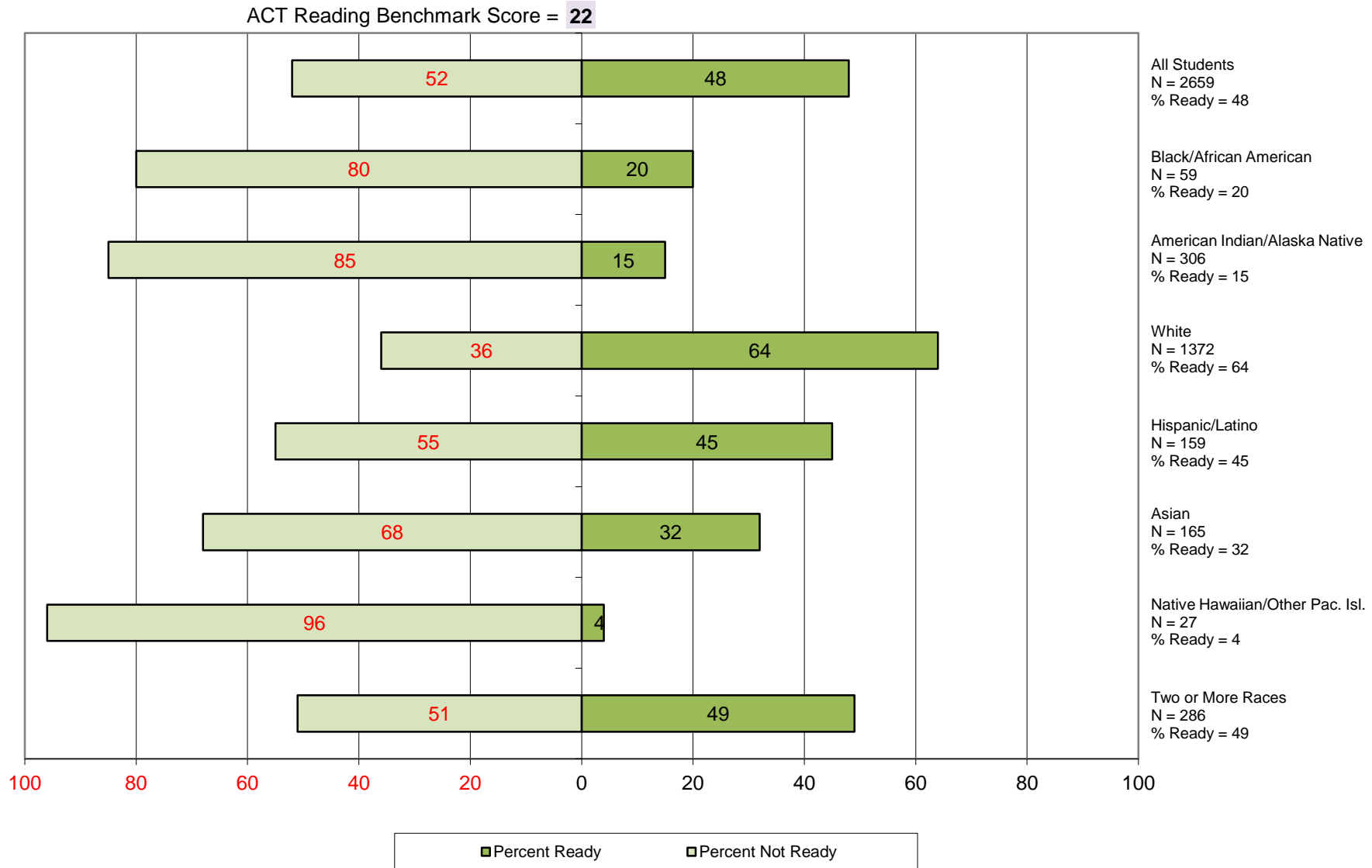


Figure 3.4. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

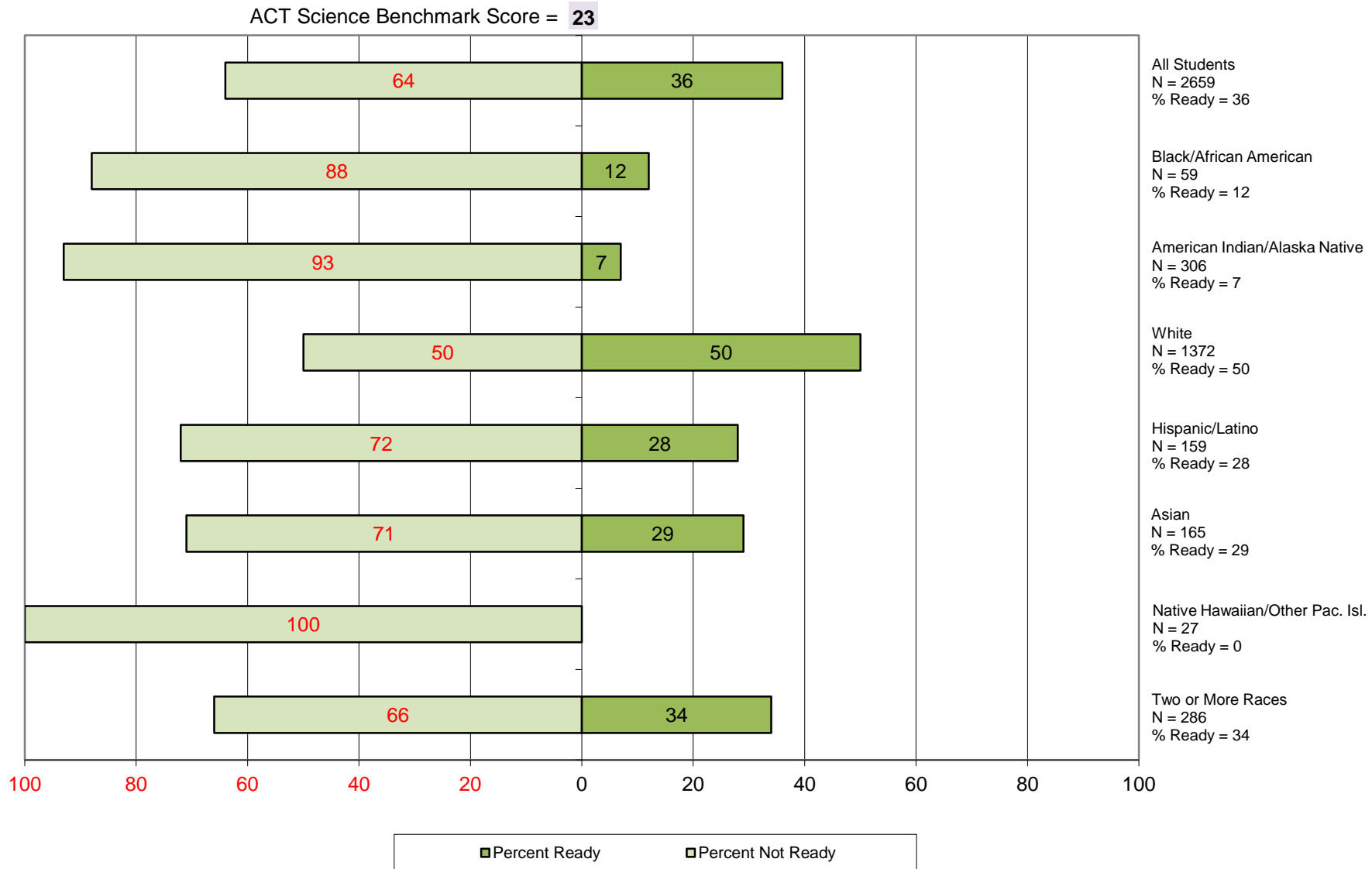
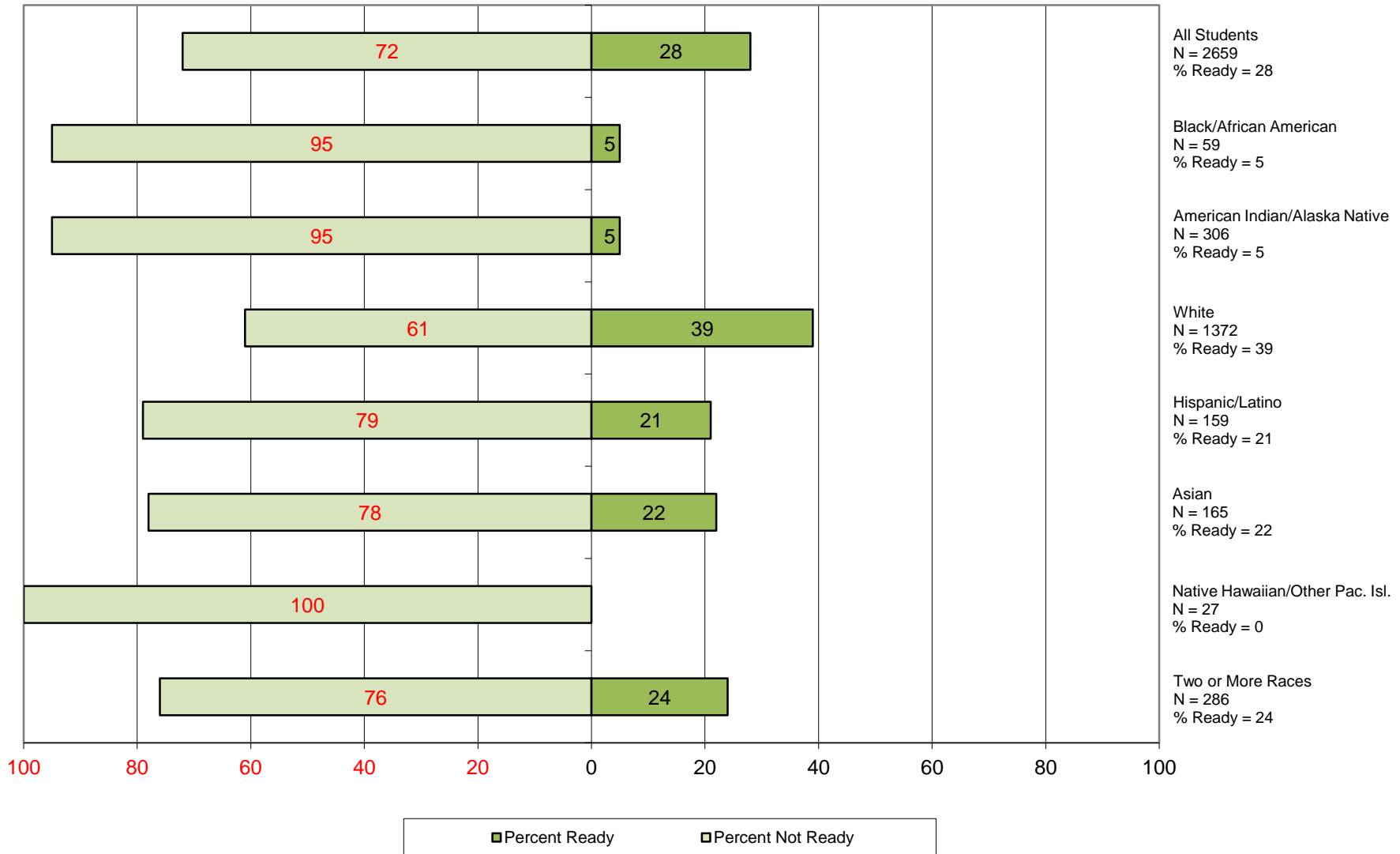


Figure 3.5. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR



Total Students in Report: 2,659

Table 3.1. Average ACT Scores and Average ACT Score Changes by Common Course Patterns

Course Pattern	All Students				Males				Females			
	N	Percent	ACT English	Course Value Added ¹	N	Percent	ACT English	Course Value Added ¹	N	Percent	ACT English	Course Value Added ¹
ENGLISH COURSE PATTERN												
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	686	26	20.7	2.4	282	24	20.3	1.2	404	27	21.0	3.2
Eng 9, Eng 10, Eng 11, Eng 12	1,555	58	21.1	2.8	695	60	21.0	1.9	860	57	21.2	3.4
Less than 4 years of English	78	3	18.3	-	29	3	19.1	-	49	3	17.8	-
Zero years / no English courses reported	340	13	12.9	-	149	13	12.3	-	191	13	13.3	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	197	7	25.7	9.3	93	8	26.8	10.6	104	7	24.8	8.3
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	216	8	22.8	6.4	87	8	23.3	7.1	129	9	22.5	6.0
Alg 1, Alg 2, Geom, & Trig	190	7	21.0	4.6	83	7	21.6	5.4	107	7	20.6	4.1
Alg 1, Alg 2, Geom, & Other Adv Math	274	10	21.2	4.8	111	10	21.6	5.4	163	11	20.9	4.4
Other comb of 4 or more years of Math	775	29	24.1	7.7	366	32	24.6	8.4	409	27	23.5	7.0
Alg 1, Alg 2, & Geom	362	14	18.3	1.9	142	12	18.9	2.7	220	15	18.0	1.5
Other comb of 3 or 3.5 years of Math	77	3	20.4	4.0	38	3	20.8	4.6	39	3	20.0	3.5
Less than 3 years of Math	223	8	16.4	-	85	7	16.2	-	138	9	16.5	-
Zero years / no Math courses reported	345	13	16.6	-	150	13	16.6	-	195	13	16.5	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	216	8	22.9	1.9	95	8	22.5	1.3	121	8	23.3	2.4
Other comb of 4 or more years Social Science	1,389	52	22.7	1.7	607	53	22.7	1.5	782	52	22.6	1.7
US Hist, World Hist, & Am Gov	123	5	23.2	2.2	51	4	23.1	1.9	72	5	23.3	2.4
Other comb of 3 or 3.5 years of Social Science	485	18	22.6	1.6	200	17	22.4	1.2	285	19	22.8	1.9
Less than 3 years of Social Science	104	4	21.0	-	53	5	21.2	-	51	3	20.9	-
Zero years / no Social Science courses reported	342	13	14.9	-	149	13	14.3	-	193	13	15.4	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	829	31	22.5	3.1	453	39	23.2	3.7	376	25	21.7	2.4
Bio, Chem, Phys	209	8	24.8	5.4	97	8	25.1	5.6	112	7	24.5	5.2
Gen Sci ² , Bio, Chem	714	27	21.0	1.6	235	20	20.9	1.4	479	32	21.1	1.8
Other comb of 3 years of Natural Science	81	3	20.4	1.0	45	4	20.4	0.9	36	2	20.4	1.1
Less than 3 years of Natural Science	483	18	19.4	-	175	15	19.5	-	308	20	19.3	-
Zero years / no Natural Science courses reported	343	13	15.7	-	150	13	15.4	-	193	13	15.9	-

¹Course value added is defined as the average ACT score change compared to course sequences in which students took

less than four years of English or less than three years of Mathematics, Social Science or Natural Science.

²Includes General, Physical and Earth Sciences.

Total Students in Report: 2,659

Table 3.2. College Readiness Percents by Common Course Patterns

Course Pattern	State				National			
	N	Percent Taking Pattern	Avg ACT English	Percent Who Met Benchmark	N	Percent Taking Pattern	Avg ACT English	Percent Who Met Benchmark
ENGLISH COURSE PATTERN								
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	686	26	20.7	67	370,875	20	21.7	73
Eng 9, Eng 10, Eng 11, Eng 12	1,555	58	21.1	73	1,305,220	71	20.5	65
Less than 4 years of English	78	3	18.3	51	88,420	5	15.9	36
Zero years / no English courses reported	340	13	12.9	16	81,272	4	16.3	38
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	197	7	25.7	83	118,677	6	23.8	67
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	216	8	22.8	64	157,764	9	21.8	55
Alg 1, Alg 2, Geom, & Trig	190	7	21.0	46	120,160	7	19.3	30
Alg 1, Alg 2, Geom, & Other Adv Math	274	10	21.2	48	356,555	19	19.4	31
Other comb of 4 or more years of Math	775	29	24.1	70	622,896	34	23.7	65
Alg 1, Alg 2, & Geom	362	14	18.3	18	220,037	12	17.1	11
Other comb of 3 or 3.5 years of Math	77	3	20.4	31	90,105	5	19.8	35
Less than 3 years of Math	223	8	16.4	4	74,627	4	16.4	8
Zero years / no Math courses reported	345	13	16.6	11	84,966	5	17.8	19
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	216	8	22.9	57	48,992	3	22.3	50
Other comb of 4 or more years Social Science	1,389	52	22.7	54	921,129	50	22.2	50
US Hist, World Hist, & Am Gov	123	5	23.2	58	105,110	6	19.6	33
Other comb of 3 or 3.5 years of Social Science	485	18	22.6	52	504,877	27	21.3	43
Less than 3 years of Social Science	104	4	21.0	42	180,385	10	19.4	32
Zero years / no Social Science courses reported	342	13	14.9	10	85,294	5	17.8	24
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	829	31	22.5	49	781,043	42	22.1	46
Bio, Chem, Phys	209	8	24.8	68	199,419	11	23.1	54
Gen Sci ¹ , Bio, Chem	714	27	21.0	35	505,460	27	20.0	28
Other comb of 3 years of Natural Science	81	3	20.4	33	52,236	3	19.2	24
Less than 3 years of Natural Science	483	18	19.4	25	220,701	12	18.1	17
Zero years / no Natural Science courses reported	343	13	15.7	6	86,928	5	17.7	17

¹Includes 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: 2,659

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

Planned Educational Major	All Students			Plan on 2 Years or Less of College			Plan on 4 Years or More of College		
	N ¹	Percent ²	Avg ACT Comp	N	Percent ²	Avg ACT Comp	N	Percent ²	Avg ACT Comp
Agriculture & Natural Resources Conservation	32	1	20.8	4	3	17.8	24	1	22.2
Architecture	19	1	22.5	1	1	18.0	17	1	22.4
Area, Ethnic, & Multidisciplinary Studies	5	0	21.2	0	0	.	5	0	21.2
Arts: Visual & Performing	129	5	21.1	8	5	18.1	103	5	21.3
Business	189	7	20.2	10	6	17.2	159	8	20.6
Communications	30	1	22.4	1	1	15.0	29	1	22.7
Community, Family, & Personal Services	43	2	18.7	7	5	14.7	31	2	20.2
Computer Science & Mathematics	72	3	23.4	4	3	17.5	56	3	23.6
Education	100	4	20.1	1	1	22.0	94	5	20.3
Engineering	295	11	24.2	8	5	17.3	267	13	24.7
Engineering Technology & Drafting	48	2	19.4	8	5	16.6	36	2	20.1
English & Foreign Languages	43	2	23.9	1	1	14.0	39	2	24.3
Health Administration & Assisting	71	3	17.8	8	5	13.0	51	3	19.0
Health Sciences & Technologies	480	18	21.1	16	10	16.8	409	20	21.6
Philosophy, Religion, & Theology	17	1	20.6	2	1	18.0	12	1	21.6
Repair, Production, & Construction	56	2	17.4	25	16	16.9	25	1	18.7
Sciences: Biological & Physical	220	8	23.4	1	1	13.0	199	10	23.7
Social Sciences & Law	147	6	21.5	6	4	17.0	127	6	22.2
Undecided	490	18	20.7	40	26	15.9	336	17	22.0
No Response	169	6	14.9	1	1	12.0	13	1	17.8

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

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

Total Students in Report: 2,659

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	36	16.2	0	.	19	13.4	9	20.7	2	17.5
2-yr College Degree	118	16.4	0	.	43	13.7	41	18.7	5	16.4
Bachelors Degree	1,263	20.8	27	17.3	135	17.0	729	22.2	76	19.1
Graduate Study	350	24.4	1	34.0	14	17.9	227	25.1	20	22.7
Prof. Level Degree	420	24.1	14	18.5	22	18.9	250	25.1	36	22.8
Other	53	16.4	3	14.7	22	12.9	14	21.8	2	17.5
No Response	419	17.7	14	15.2	51	15.4	102	22.5	18	19.1

Educational Degree Aspirations	All Racial/Ethnic Groups Combined		Asian		Native Hawaiian/ Other Pacific Islander		Two or more races		Prefer not to respond/ No Response	
	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	36	16.2	0	.	0	.	5	17.2	1	22.0
2-yr College Degree	118	16.4	6	16.5	5	15.8	14	17.9	4	16.8
Bachelors Degree	1,263	20.8	72	19.1	16	16.2	154	20.3	54	21.6
Graduate Study	350	24.4	26	23.8	0	.	38	23.7	24	24.3
Prof. Level Degree	420	24.1	25	22.1	2	18.5	43	24.0	28	26.0
Other	53	16.4	2	19.5	1	14.0	5	16.2	4	16.8
No Response	419	17.7	34	17.1	3	16.3	27	19.7	170	15.3

Total Students in Report: 2,659

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
UNIVERSITY OF ALASKA ANCHORAGE	Alaska	807	463	344	8	20	27	26	15	4	0
UNIVERSITY OF ALASKA FAIRBANKS	Alaska	636	330	306	10	20	23	23	17	8	0
UNIVERSITY OF ALASKA SOUTHEAST	Alaska	140	35	105	11	27	29	16	13	5	0
UNIVERSITY OF WASHINGTON	Washington	74	17	57	0	3	12	32	20	27	5
MONTANA STATE UNIVERSITY-BOZEMAN	Montana	73	22	51	1	0	12	33	34	19	0
ALASKA PACIFIC UNIVERSITY	Alaska	53	13	40	9	26	23	25	13	4	0
KUSKOKWIM CAMPUS UAF-CRCD	Alaska	51	15	36	33	49	14	4	0	0	0
WASHINGTON STATE UNIVERSITY	Washington	48	11	37	2	2	17	33	35	8	2
NORTHERN ARIZONA UNIVERSITY	Arizona	46	11	35	0	4	9	35	33	20	0
BRIGHAM YOUNG UNIVERSITY	Utah	45	27	18	0	9	7	31	24	27	2
OREGON STATE UNIVERSITY	Oregon	43	10	33	2	2	28	28	28	9	2
UNIVERSITY OF OREGON	Oregon	42	11	31	2	0	17	38	26	17	0
FORT LEWIS COLLEGE	Colorado	40	13	27	18	23	35	18	3	5	0
NCAA ELIGIBILITY CENTER	Indiana	40	23	17	3	10	18	30	28	10	3
BRIGHAM YOUNG UNIVERSITY-IDAHO	Idaho	39	10	29	0	13	8	33	23	21	3
WESTERN WASHINGTON UNIVERSITY	Washington	38	5	33	0	0	13	34	32	21	0
ARIZONA STATE UNIVERSITY	Arizona	37	11	26	5	8	27	30	16	14	0
COLORADO STATE UNIVERSITY	Colorado	35	16	19	0	3	11	40	37	9	0
KENAI PENINSULA COLLEGE	Alaska	35	19	16	9	9	49	23	9	3	0
MATANUSKA-SUSITNA COLLEGE/UAA	Alaska	32	17	15	6	9	28	47	9	0	0
UNIVERSITY OF MONTANA	Montana	31	10	21	3	10	10	45	26	3	3
BOISE STATE UNIVERSITY	Idaho	30	9	21	0	3	17	43	30	7	0
EASTERN WASHINGTON UNIVERSITY	Washington	28	10	18	7	4	39	32	11	7	0
UNIVERSITY OF IDAHO	Idaho	26	7	19	0	8	12	38	27	15	0
UNIVERSITY OF HAWAII AT MANOA	Hawaii	25	8	17	0	4	36	28	20	12	0
SEATTLE UNIVERSITY	Washington	24	1	23	0	8	17	25	29	17	4
UNIVERSITY OF PORTLAND	Oregon	23	9	14	0	4	22	30	22	17	4
PORTLAND STATE UNIVERSITY	Oregon	22	2	20	0	0	14	32	41	14	0
SOUTHERN OREGON UNIVERSITY	Oregon	22	3	19	5	5	18	50	18	5	0
STANFORD UNIVERSITY	California	22	3	19	0	0	9	9	14	55	14
All Other Institutions		1,773	472	1,301	2	8	18	25	23	20	3
Total		4,380	1,613	2,767	5	13	21	26	20	13	2

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: 2,659

Table 5.1. Average ACT English and Writing Scores by Race/Ethnicity and Gender for students who took ACT Writing

	N		Average ACT Scores					
			English		Essay		English/Writing Combined	
	State	National	State	National	State	National	State	National
All Students	1,728	976,031	20.6	21.3	7.0	7.1	20.0	20.6
Black/African American	49	114,263	15.4	16.4	6.6	6.3	15.8	16.3
American Indian/Alaska Native	171	6,408	14.6	16.8	5.4	6.2	14.1	16.5
White	901	520,054	23.1	23.1	7.4	7.3	22.3	22.1
Hispanic/Latino	106	167,575	19.5	18.5	7.1	6.9	19.3	18.4
Asian	125	61,663	18.8	23.7	7.3	7.7	19.0	22.9
Native Hawaiian/Other Pac. Isl.	21	3,742	13.7	17.7	6.2	6.6	14.2	17.6
Two or more races	189	39,565	20.4	21.4	7.1	7.1	19.9	20.7
Prefer not/No Response	166	62,761	18.1	21.6	6.0	7.1	17.2	20.9
Males	733	438,500	20.3	21.1	6.7	6.9	19.6	20.2
Females	995	530,240	20.8	21.6	7.2	7.3	20.4	21.1
Missing	0	7,291	.	16.0	.	5.9	.	15.7

