

ACT Profile Report - State

Graduating Class 2014

Montana



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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

23% 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: 9,611 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. 49% 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 17% of the cohort took less than three years of math courses. Of these students, 5% were college ready. 19% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 16% of these students were college ready. In comparison, 59% 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 35% of the cohort took less than three years of natural science courses. 15% 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 49% 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

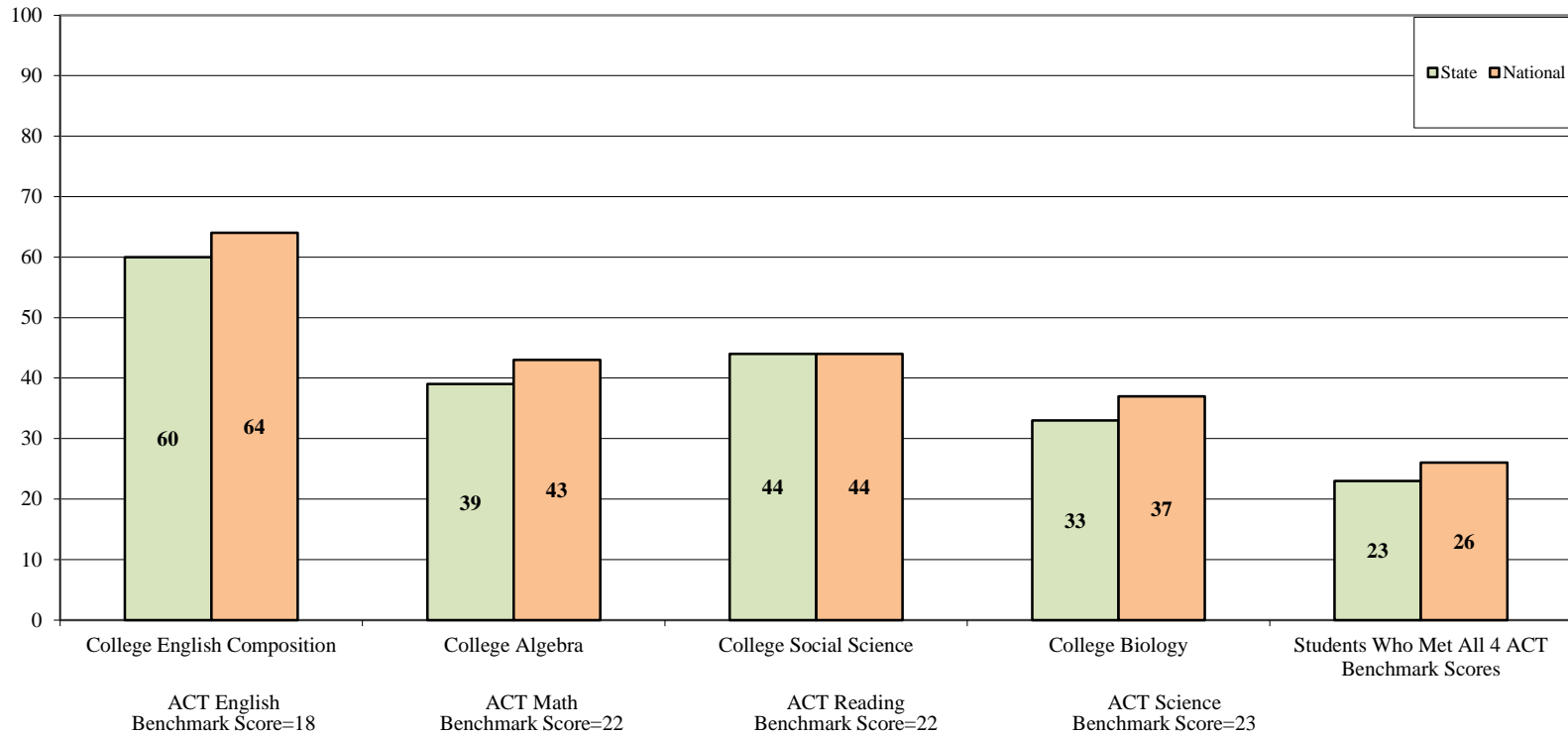
Executive Summary

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: 9,611

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

Year	Number of Students Tested		Percent Who Met Benchmarks									
	State	National	English		Mathematics		Reading		Science		Met All Four	
	State	National	State	National	State	National	State	National	State	National	State	National
2010	6,222	1,568,835	74	66	51	43	62	52	34	29	28	24
2011	6,037	1,623,112	75	66	53	45	63	52	35	30	29	25
2012	6,024	1,666,017	74	67	54	46	63	52	37	31	30	25
2013	6,631	1,799,243	66	64	49	44	50	44	39	36	28	26
2014	9,611	1,845,787	60	64	39	43	44	44	33	37	23	26

Table 1.2. Five Year Trends—Average ACT Scores

Year	Number of Students Tested		Average ACT Scores									
	State	National	English		Mathematics		Reading		Science		Composite	
	State	National	State	National	State	National	State	National	State	National	State	National
2010	6,222	1,568,835	21.3	20.5	21.7	21.0	22.7	21.3	21.9	20.9	22.0	21.0
2011	6,037	1,623,112	21.3	20.6	21.9	21.1	22.7	21.3	22.0	20.9	22.1	21.1
2012	6,024	1,666,017	21.1	20.5	21.9	21.1	22.6	21.3	22.0	20.9	22.0	21.1
2013	6,631	1,799,243	20.2	20.2	21.4	20.9	21.9	21.1	21.2	20.7	21.3	20.9
2014	9,611	1,845,787	19.3	20.3	20.5	20.9	21.1	21.3	20.4	20.8	20.5	21.0

Table 1.3. Five Year Trends—Average ACT Scores Nationwide

Year	Number of Students Tested		Average ACT Scores				
	State	National	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: 9,611

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	4,063	2,008	65	32	22.6	19.1	23.0	19.5	23.8	20.6	23.0	20.0	23.2	19.9
2011	4,084	1,833	68	30	22.4	19.3	23.0	19.7	23.7	20.8	23.0	20.1	23.1	20.1
2012	4,193	1,735	70	29	22.1	18.9	22.9	19.7	23.5	20.6	22.8	20.1	23.0	20.0
2013	4,043	2,321	61	35	21.9	17.9	22.9	19.2	23.3	19.9	22.7	19.3	22.8	19.2
2014	4,703	4,324	49	45	21.9	17.2	22.8	18.6	23.4	19.1	22.6	18.6	22.8	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.

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	6,222	100	22.0	6,037	100	22.1	6,024	100	22.0	6,631	100	21.3	9,611	100	20.5
Black/African American	39	1	19.1	29	0	19.2	27	0	18.2	41	1	17.2	64	1	17.0
American Indian/Alaska Native	373	6	17.8	284	5	18.0	277	5	17.6	363	5	16.3	424	4	15.9
White	5,290	85	22.4	5,065	84	22.4	4,984	83	22.4	5,323	80	21.8	7,468	78	20.9
Hispanic/Latino	124	2	21.0	195	3	20.5	205	3	20.6	266	4	19.5	461	5	18.8
Asian	83	1	22.5	56	1	22.5	64	1	21.6	70	1	21.4	89	1	21.2
Native Hawaiian/Other Pacific Islander	0	0	.	10	0	19.6	11	0	19.5	12	0	17.7	29	0	17.5
Two or more races	94	2	21.3	179	3	21.2	253	4	21.6	263	4	20.7	464	5	20.1
Prefer not to respond/No response	219	4	21.7	219	4	22.5	203	3	22.8	293	4	20.7	612	6	20.2

Total Students in Report: 9,611

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

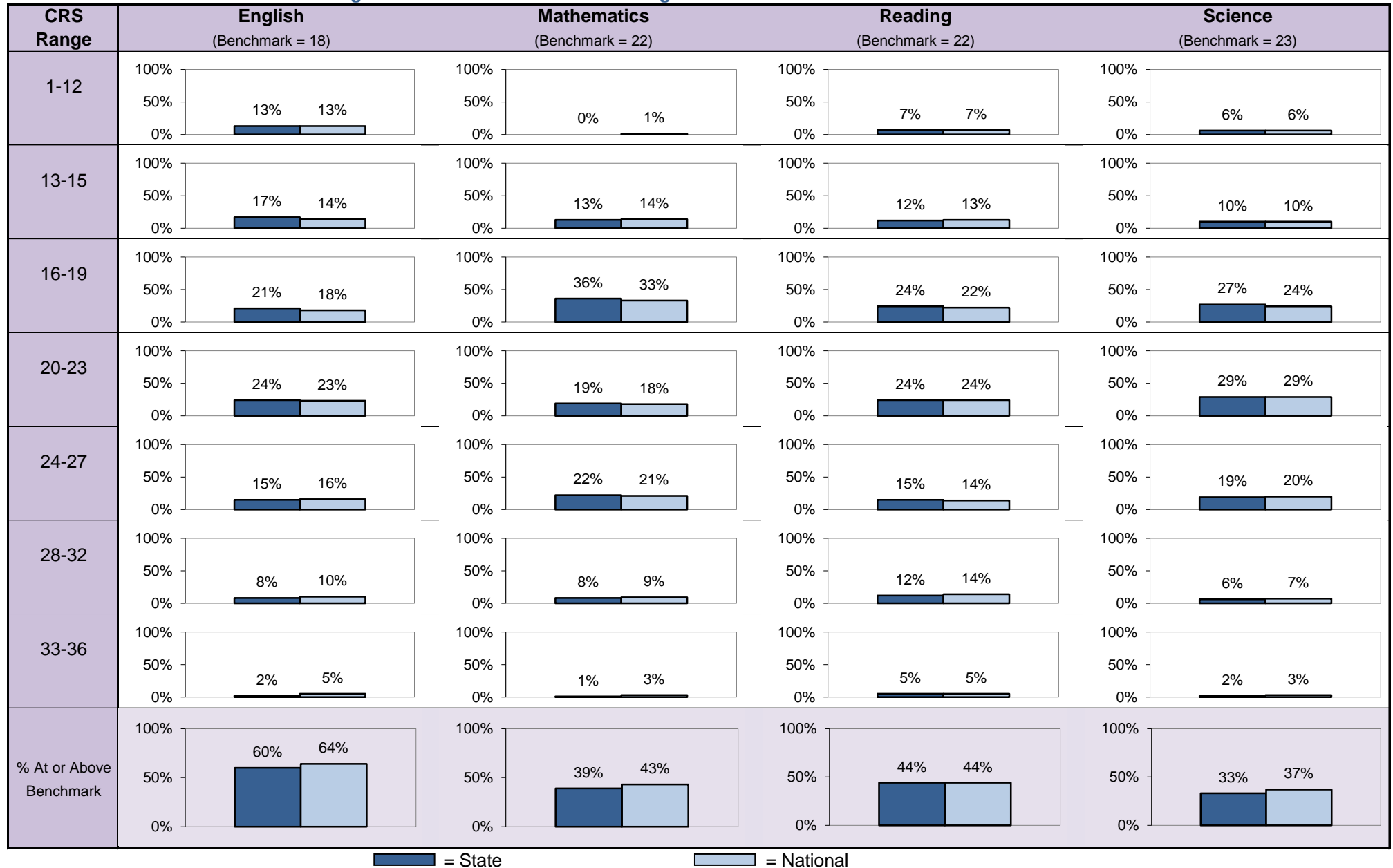


Table 1.7. Average ACT College Reportable Scores by Test Session Duration

Student Group	Test Session Duration	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Standard Time	9,269	96	19.5	20.7	21.2	20.5	20.6
	Extended Time	342	4	14.7	16.7	16.8	16.8	16.3
	Total	9,611	100	19.3	20.5	21.1	20.4	20.5
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	61	40	44	34	24
	Extended Time	25	13	18	13	7
	Total	60	39	44	33	23
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: 9,611

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

ACT Scale Score	English		Mathematics		Reading		Science		Composite		ACT Scale Score
	N	CP	N	CP	N	CP	N	CP	N	CP	
36	10	100	12	100	44	100	21	100	2	100	36
35	49	100	20	100	18	100	27	100	12	100	35
34	83	99	61	100	128	99	54	100	33	100	34
33	65	99	43	99	257	98	49	99	48	100	33
32	123	98	59	99	235	95	79	98	70	99	32
31	97	97	71	98	211	93	60	98	133	98	31
30	120	96	158	97	245	91	146	97	153	97	30
29	161	94	204	96	249	88	125	95	194	95	29
28	227	93	232	93	232	86	200	94	263	93	28
27	203	90	387	91	300	83	272	92	337	91	27
26	309	88	553	87	344	80	277	89	399	87	26
25	420	85	493	81	357	76	634	86	465	83	25
24	473	81	684	76	446	73	683	80	540	78	24
23	443	76	506	69	665	68	560	73	600	72	23
22	620	71	308	64	453	61	878	67	649	66	22
21	628	65	505	61	804	56	809	58	681	59	21
20	660	58	505	55	430	48	573	49	672	52	20
19	618	51	584	50	784	44	832	43	653	45	19
18	455	45	617	44	412	35	492	35	669	39	18
17	282	40	1,057	38	418	31	800	30	664	32	17
16	644	37	1,226	27	679	27	424	21	642	25	16
15	676	30	829	14	367	20	355	17	570	18	15
14	593	23	340	5	558	16	328	13	465	12	14
13	386	17	114	2	271	10	309	10	377	7	13
12	341	13	24	1	351	7	214	6	231	3	12
11	369	10	14	1	154	4	156	4	62	1	11
10	290	6	2	1	124	2	114	3	17	1	10
9	157	3	0	1	36	1	99	1	5	1	9
8	58	1	3	1	10	1	27	1	3	1	8
7	39	1	0	1	13	1	7	1	1	1	7
6	7	1	0	1	5	1	1	1	1	1	6
5	3	1	0	1	8	1	4	1	0	1	5
4	0	1	0	1	1	1	1	1	0	1	4
3	1	1	0	1	1	1	0	1	0	1	3
2	1	1	0	1	0	1	1	1	0	1	2
1	0	1	0	1	1	1	0	1	0	1	1
Avg (SD)	19.3 (6.0)		20.5 (4.9)		21.1 (6.1)		20.4 (5.1)		20.5 (5.0)		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: 9,611

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	149	100	60	100	187	100	214	100	198	100	42	100	40	100	18
17	377	98	47	99	522	98	459	98	280	98	25	100	14	100	17
16	247	95	315	99	469	93	531	93	411	95	111	99	304	99	16
15	463	92	499	96	464	88	575	87	480	91	366	98	461	96	15
14	334	87	419	90	618	83	608	81	669	86	744	94	833	91	14
13	658	84	818	86	1,164	76	744	75	1,074	79	915	87	753	83	13
12	666	77	789	78	847	64	732	67	849	68	807	77	859	75	12
11	868	70	1,115	69	730	56	758	60	706	59	1,395	69	1,425	66	11
10	893	61	941	58	812	48	738	52	666	51	1,191	54	920	51	10
9	902	52	1,353	48	875	40	1,353	44	1,109	45	1,795	42	1,551	42	9
8	1,112	42	917	34	885	30	648	30	1,116	33	998	23	1,342	26	8
7	796	31	762	24	1,109	21	561	23	954	21	597	13	542	12	7
6	773	22	664	16	441	10	543	18	617	11	130	7	52	6	6
5	578	14	470	9	258	5	740	12	367	5	336	5	287	5	5
4	384	8	353	5	144	2	204	4	79	1	14	2	51	2	4
3	334	4	76	1	63	1	133	2	23	1	119	2	118	2	3
2	70	1	10	1	12	1	64	1	11	1	0	1	28	1	2
1	7	1	3	1	11	1	6	1	2	1	26	1	31	1	1
Avg (SD)	9.6 (3.8)		9.9 (3.2)		10.8 (3.6)		10.5 (3.8)		10.6 (3.4)		10.3 (2.7)		10.4 (2.9)		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)	23	24	25	24	24
Q2 (50th Percentile)	19	19	21	21	20
Q1 (25th Percentile)	15	16	16	17	17

Total Students in Report: 9,611

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	9,611	49	22.8	18.5
	Black/African American	64	30	19.3	16.2
	American Indian/Alaska Native	424	34	17.1	15.8
	White	7,468	51	23.1	18.8
	Hispanic/Latino	461	42	21.0	17.4
	Asian	89	57	22.2	19.9
	Native Hawaiian/Other Pac. Isl.	29	52	18.5	17.4
	Two or more races	464	51	22.0	18.4
	Prefer not/No Response	612	41	23.7	18.0
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	19.3	20.5	21.1	20.4	20.5
	Black/African American	15.7	17.5	17.2	17.2	17.0
	American Indian/Alaska Native	14.1	16.6	16.2	16.2	15.9
	White	19.8	20.9	21.5	20.8	20.9
	Hispanic/Latino	17.7	19.0	19.3	18.7	18.8
	Asian	20.0	23.1	20.8	20.6	21.2
	Native Hawaiian/Other Pac. Isl.	16.0	18.0	18.0	17.7	17.5
	Two or more races	18.9	20.2	20.9	20.1	20.1
	Prefer not/No Response	19.2	20.2	20.9	20.0	20.2
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: 9,611

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	207	2	136	1	447	5	151	2
	28 to 32	728	8	724	8	1,172	12	610	6
	24 to 27	1,405	15	2,117	22	1,447	15	1,866	19
	20 to 23	2,351	24	1,824	19	2,352	24	2,820	29
	16 to 19	1,999	21	3,484	36	2,293	24	2,548	27
	13 to 15	1,655	17	1,283	13	1,196	12	992	10
	01 to 12	1,266	13	43	0	704	7	624	6
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	4,769	50	18.8	20.8	20.7	20.5	20.3
	Females	4,652	48	20.0	20.3	21.5	20.4	20.7
	Missing	190	2	17.2	19.3	19.4	18.9	18.9
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	57	41	41	34	24
	Females	64	38	46	32	23
National	Males	62	47	43	40	29
	Females	66	40	45	34	25

Total Students in Report: 9,611

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	4,703	78	21.9	59	22.8	59	23.4	49	22.6	37	22.8
	Less than Core	4,324	45	17.2	22	18.6	30	19.1	19	18.6	10	18.5
	Missing ³	584	27	14.9	12	17.1	17	17.0	13	16.6	5	16.5
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	8,282	64	19.9	7,513	49	21.6	7,542	49	21.8	5,791	45	22.1
	Less than Core	981	36	16.1	1,593	5	16.5	1,665	27	18.5	3,370	15	18.0
	Missing ³	348	31	15.5	505	12	17.0	404	19	17.4	450	15	17.1
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

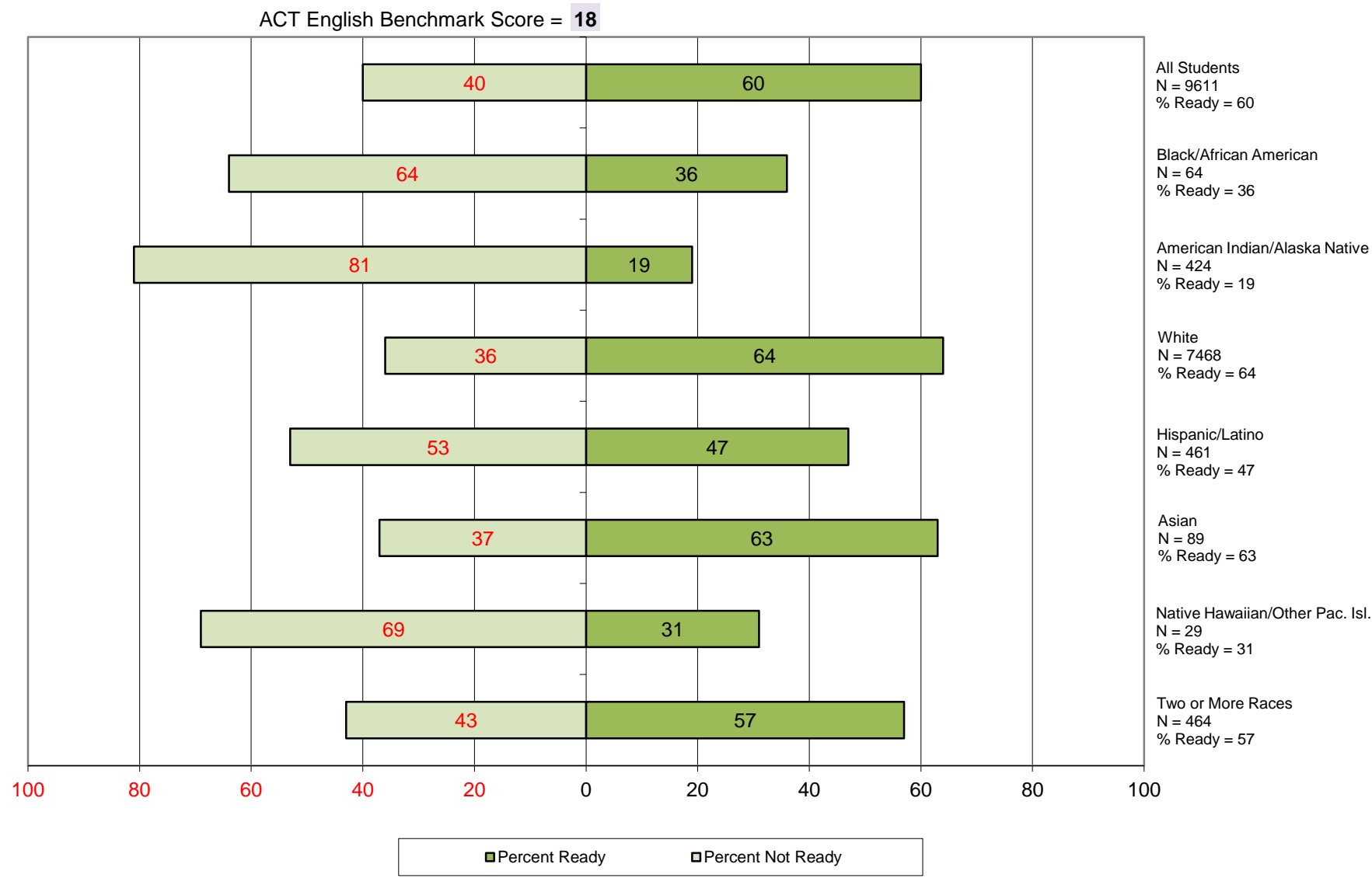
College Readiness and the Impact of Course Rigor

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.

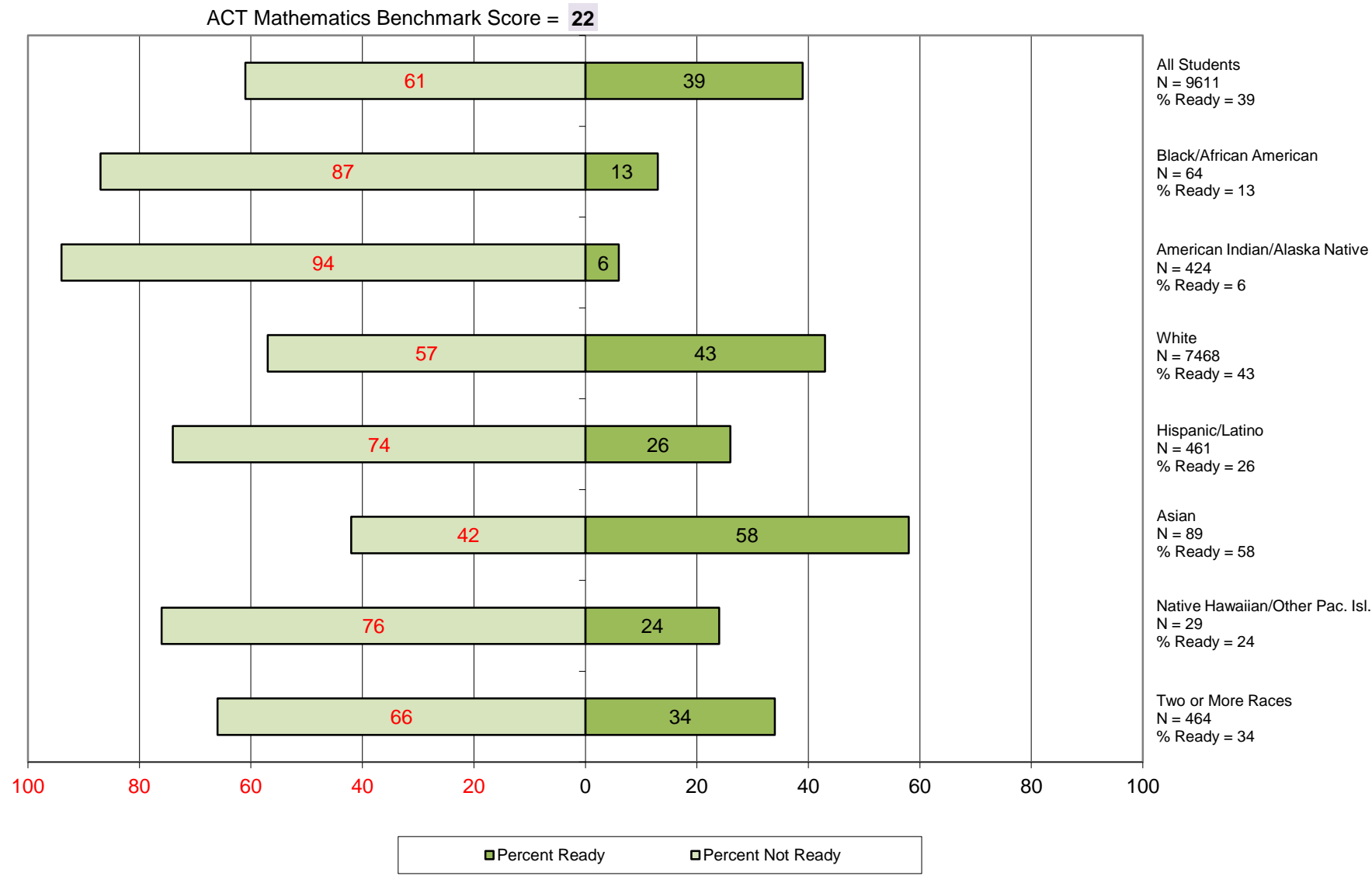
Total Students in Report: 9,611

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



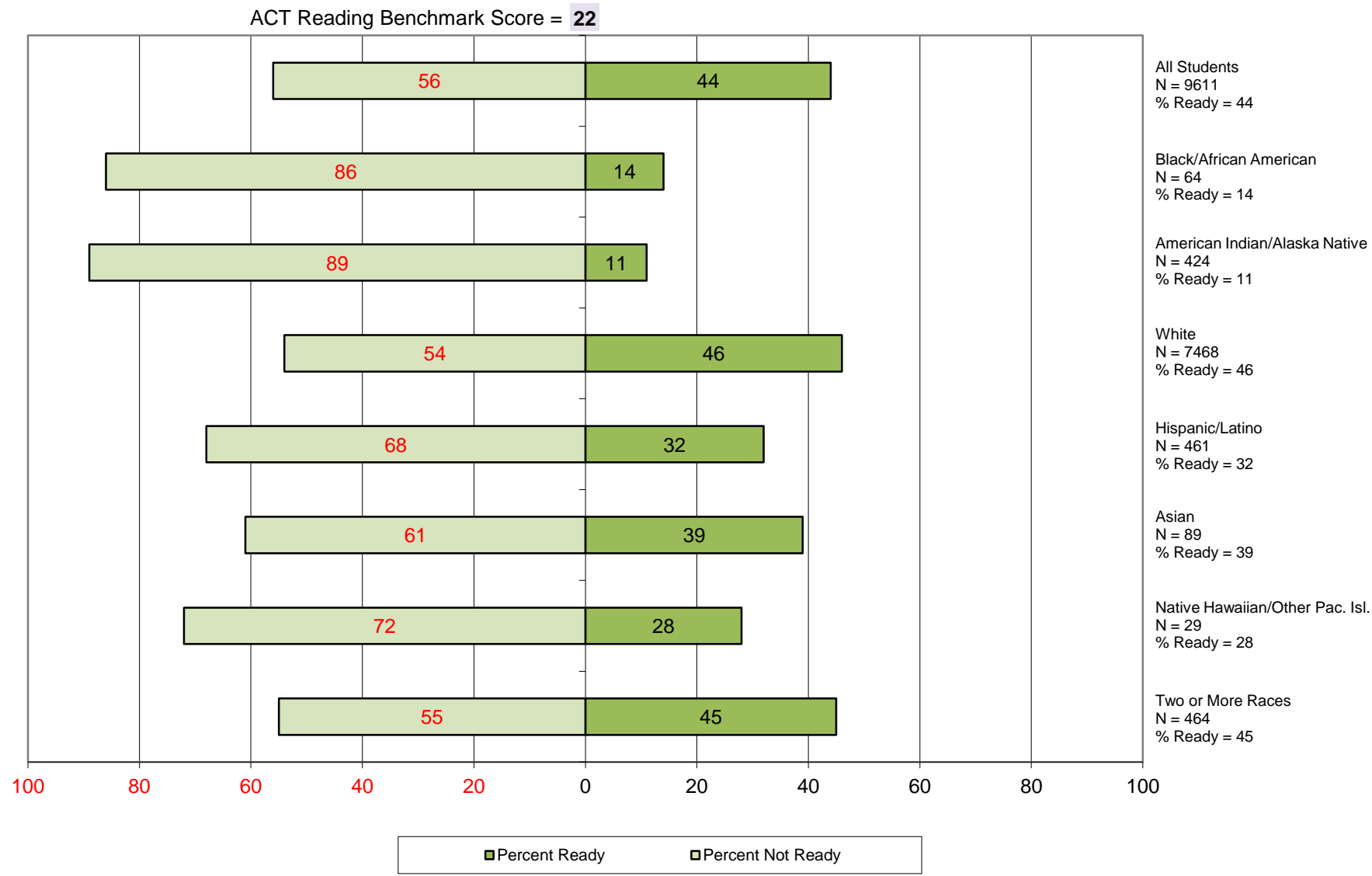
Total Students in Report: 9,611

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



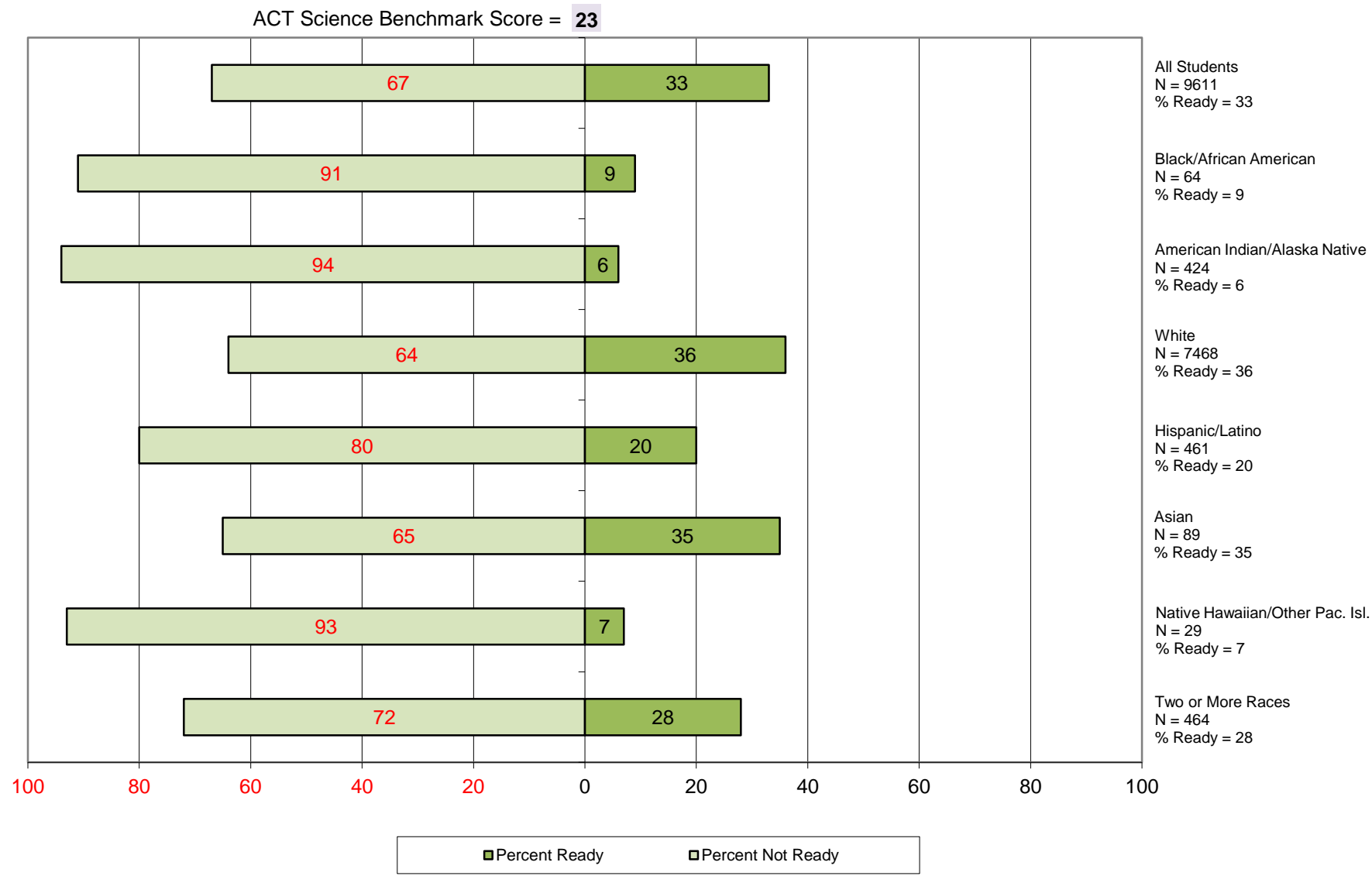
Total Students in Report: 9,611

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



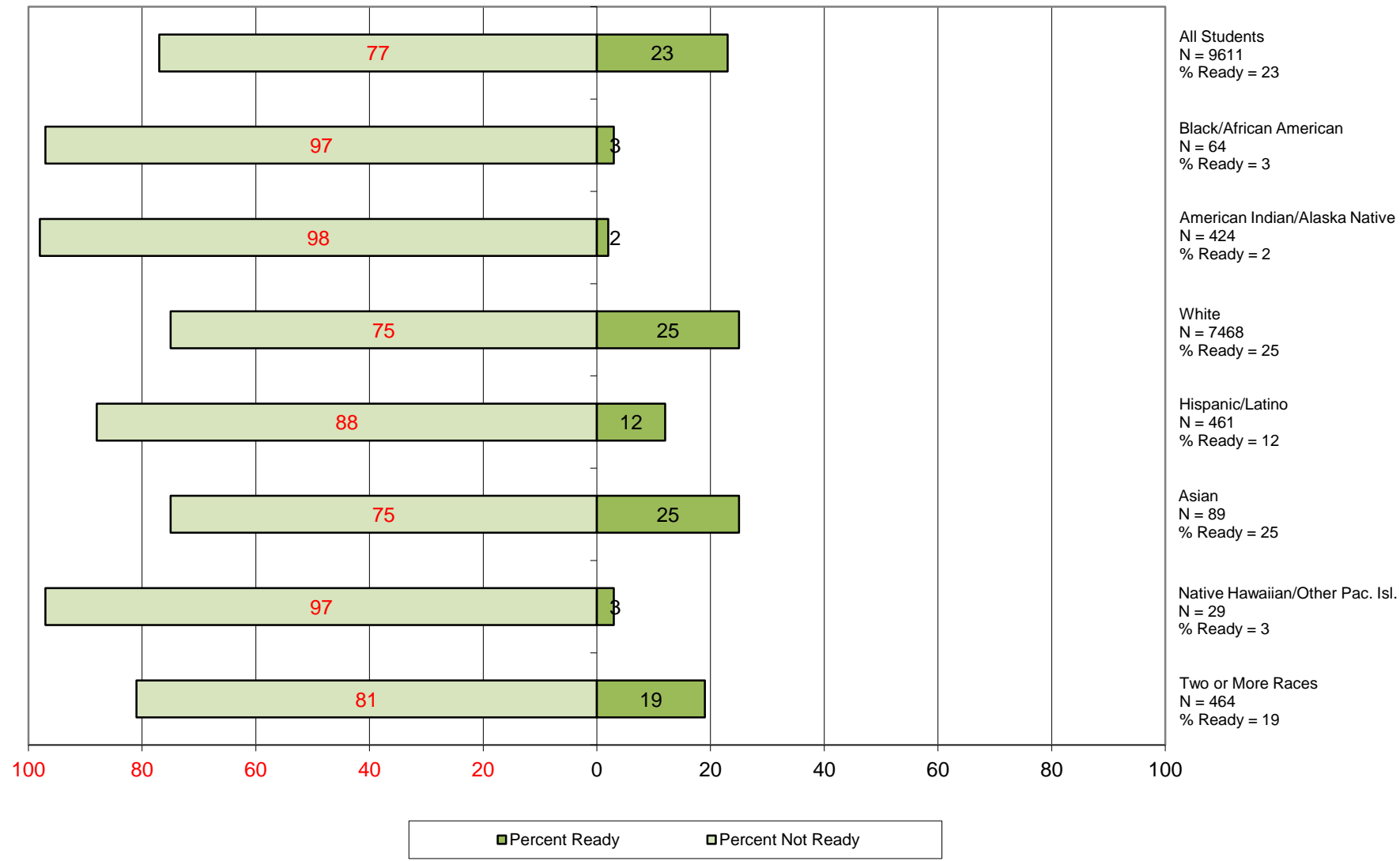
Total Students in Report: 9,611

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



Total Students in Report: 9,611

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



Total Students in Report: 9,611

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	1,570	16	20.9	4.8	687	14	20.5	5.0	869	19	21.3	4.3
Eng 9, Eng 10, Eng 11, Eng 12	6,712	70	19.7	3.6	3,359	70	19.2	3.7	3,249	70	20.2	3.2
Less than 4 years of English	981	10	16.1	-	553	12	15.5	-	396	9	17.0	-
Zero years / no English courses reported	348	4	15.5	-	170	4	15.2	-	138	3	15.5	-
MATHEMATICS COURSE PATTERN												
	N	Percent	ACT Math	Course Value Added ¹	N	Percent	ACT Math	Course Value Added ¹	N	Percent	ACT Math	Course Value Added ¹
Alg 1, Alg 2, Geom, Trig, & Calc	473	5	24.7	8.2	231	5	25.1	8.4	239	5	24.4	8.1
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	655	7	22.9	6.4	278	6	23.3	6.6	373	8	22.6	6.3
Alg 1, Alg 2, Geom, & Trig	608	6	20.1	3.6	309	6	20.4	3.7	293	6	19.7	3.4
Alg 1, Alg 2, Geom, & Other Adv Math	1,564	16	21.4	4.9	656	14	21.9	5.2	885	19	21.0	4.7
Other comb of 4 or more years of Math	1,926	20	24.7	8.2	967	20	25.2	8.5	936	20	24.2	7.9
Alg 1, Alg 2, & Geom	1,866	19	18.3	1.8	955	20	18.8	2.1	868	19	17.8	1.5
Other comb of 3 or 3.5 years of Math	421	4	20.5	4.0	223	5	20.9	4.2	192	4	20.0	3.7
Less than 3 years of Math	1,593	17	16.5	-	901	19	16.7	-	656	14	16.3	-
Zero years / no Math courses reported	505	5	17.0	-	249	5	17.2	-	210	5	16.3	-
SOCIAL SCIENCE COURSE PATTERN												
	N	Percent	ACT Reading	Course Value Added ¹	N	Percent	ACT Reading	Course Value Added ¹	N	Percent	ACT Reading	Course Value Added ¹
US Hist, World Hist, Am Gov, & Other Hist	936	10	22.3	3.8	510	11	21.9	3.9	419	9	22.8	3.6
Other comb of 4 or more years Social Science	1,957	20	22.6	4.1	894	19	22.6	4.6	1,047	23	22.7	3.5
US Hist, World Hist, & Am Gov	2,196	23	20.9	2.4	1,181	25	20.9	2.9	961	21	20.9	1.7
Other comb of 3 or 3.5 years of Social Science	2,453	26	21.9	3.4	1,036	22	21.4	3.4	1,385	30	22.2	3.0
Less than 3 years of Social Science	1,665	17	18.5	-	949	20	18.0	-	678	15	19.2	-
Zero years / no Social Science courses reported	404	4	17.4	-	199	4	17.0	-	162	3	17.6	-
NATURAL SCIENCE COURSE PATTERN												
	N	Percent	ACT Science	Course Value Added ¹	N	Percent	ACT Science	Course Value Added ¹	N	Percent	ACT Science	Course Value Added ¹
Gen Sci ² , Bio, Chem, & Phys	2,354	24	23.1	5.1	1,268	27	23.5	5.6	1,064	23	22.8	4.7
Bio, Chem, Phys	229	2	23.7	5.7	128	3	24.1	6.2	101	2	23.3	5.2
Gen Sci ² , Bio, Chem	2,680	28	21.3	3.3	1,045	22	21.5	3.6	1,590	34	21.2	3.1
Other comb of 3 years of Natural Science	528	5	20.6	2.6	341	7	21.0	3.1	173	4	19.9	1.8
Less than 3 years of Natural Science	3,370	35	18.0	-	1,764	37	17.9	-	1,543	33	18.1	-
Zero years / no Natural Science courses reported	450	5	17.1	-	223	5	17.0	-	181	4	16.7	-

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: 9,611

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	1,570	16	20.9	71	370,875	20	21.7	73
Eng 9, Eng 10, Eng 11, Eng 12	6,712	70	19.7	62	1,305,220	71	20.5	65
Less than 4 years of English	981	10	16.1	36	88,420	5	15.9	36
Zero years / no English courses reported	348	4	15.5	31	81,272	4	16.3	38
MATHEMATICS COURSE PATTERN								
	N	Percent Taking Pattern	Avg ACT Math	Percent Who Met Benchmark	N	Percent Taking Pattern	Avg ACT Math	Percent Who Met Benchmark
Alg 1, Alg 2, Geom, Trig, & Calc	473	5	24.7	77	118,677	6	23.8	67
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	655	7	22.9	65	157,764	9	21.8	55
Alg 1, Alg 2, Geom, & Trig	608	6	20.1	34	120,160	7	19.3	30
Alg 1, Alg 2, Geom, & Other Adv Math	1,564	16	21.4	48	356,555	19	19.4	31
Other comb of 4 or more years of Math	1,926	20	24.7	75	622,896	34	23.7	65
Alg 1, Alg 2, & Geom	1,866	19	18.3	16	220,037	12	17.1	11
Other comb of 3 or 3.5 years of Math	421	4	20.5	38	90,105	5	19.8	35
Less than 3 years of Math	1,593	17	16.5	5	74,627	4	16.4	8
Zero years / no Math courses reported	505	5	17.0	12	84,966	5	17.8	19
SOCIAL SCIENCE COURSE PATTERN								
	N	Percent Taking Pattern	Avg ACT Reading	Percent Who Met Benchmark	N	Percent Taking Pattern	Avg ACT Reading	Percent Who Met Benchmark
US Hist, World Hist, Am Gov, & Other Hist	936	10	22.3	52	48,992	3	22.3	50
Other comb of 4 or more years Social Science	1,957	20	22.6	53	921,129	50	22.2	50
US Hist, World Hist, & Am Gov	2,196	23	20.9	42	105,110	6	19.6	33
Other comb of 3 or 3.5 years of Social Science	2,453	26	21.9	50	504,877	27	21.3	43
Less than 3 years of Social Science	1,665	17	18.5	27	180,385	10	19.4	32
Zero years / no Social Science courses reported	404	4	17.4	19	85,294	5	17.8	24
NATURAL SCIENCE COURSE PATTERN								
	N	Percent Taking Pattern	Avg ACT Science	Percent Who Met Benchmark	N	Percent Taking Pattern	Avg ACT Science	Percent Who Met Benchmark
Gen Sci ¹ , Bio, Chem, & Phys	2,354	24	23.1	55	781,043	42	22.1	46
Bio, Chem, Phys	229	2	23.7	61	199,419	11	23.1	54
Gen Sci ¹ , Bio, Chem	2,680	28	21.3	38	505,460	27	20.0	28
Other comb of 3 years of Natural Science	528	5	20.6	35	52,236	3	19.2	24
Less than 3 years of Natural Science	3,370	35	18.0	15	220,701	12	18.1	17
Zero years / no Natural Science courses reported	450	5	17.1	15	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: 9,611

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	330	3	19.6	61	5	17.4	260	4	20.1
Architecture	107	1	21.0	10	1	14.8	92	1	21.8
Area, Ethnic, & Multidisciplinary Studies	12	0	22.2	1	0	14.0	11	0	22.9
Arts: Visual & Performing	778	8	20.2	135	11	17.1	577	8	21.0
Business	640	7	20.8	83	7	17.9	545	8	21.3
Communications	106	1	22.3	3	0	18.7	102	1	22.3
Community, Family, & Personal Services	391	4	17.6	142	11	16.6	209	3	18.5
Computer Science & Mathematics	220	2	22.7	22	2	19.2	188	3	23.3
Education	556	6	20.2	22	2	16.8	515	7	20.4
Engineering	791	8	22.9	76	6	17.6	682	10	23.7
Engineering Technology & Drafting	182	2	20.1	45	4	16.6	128	2	21.4
English & Foreign Languages	131	1	23.4	13	1	19.6	114	2	23.9
Health Administration & Assisting	146	2	18.6	20	2	17.1	121	2	18.9
Health Sciences & Technologies	1,674	17	21.1	112	9	17.9	1,522	21	21.4
Philosophy, Religion, & Theology	45	0	20.8	0	0	.	42	1	20.8
Repair, Production, & Construction	495	5	17.7	250	20	17.0	200	3	18.7
Sciences: Biological & Physical	432	4	23.1	13	1	19.0	410	6	23.2
Social Sciences & Law	675	7	21.3	32	3	16.2	614	9	21.6
Undecided	942	10	20.8	117	9	17.0	657	9	21.6
No Response	931	10	17.5	81	7	15.0	144	2	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: 9,611

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	317	16.6	2	17.0	15	14.9	254	16.9	12	14.7
2-yr College Degree	927	17.2	4	14.8	48	14.6	724	17.5	50	15.8
Bachelors Degree	4,450	20.5	38	17.7	206	16.0	3,500	20.9	203	19.0
Graduate Study	1,112	23.1	4	21.5	34	17.5	909	23.5	47	21.1
Prof. Level Degree	1,586	23.0	9	16.2	59	17.0	1,250	23.5	86	21.0
Other	354	17.3	1	14.0	14	15.1	262	17.5	25	16.0
No Response	865	18.6	6	13.5	48	15.1	569	18.5	38	16.6

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	317	16.6	1	15.0	3	19.0	8	17.3	22	14.9
2-yr College Degree	927	17.2	2	15.5	2	15.5	35	17.7	62	17.1
Bachelors Degree	4,450	20.5	30	20.3	17	17.1	224	19.7	232	20.2
Graduate Study	1,112	23.1	16	20.8	1	17.0	43	22.7	58	22.3
Prof. Level Degree	1,586	23.0	29	23.9	4	20.5	82	22.3	67	23.8
Other	354	17.3	2	14.0	0	.	20	18.2	30	16.6
No Response	865	18.6	9	20.2	2	15.5	52	19.3	141	20.7

Total Students in Report: 9,611

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
MONTANA STATE UNIVERSITY-BOZEMAN	Montana	3,748	1,519	2,229	2	10	24	31	22	10	1
UNIVERSITY OF MONTANA	Montana	3,427	1,339	2,088	2	12	29	30	20	7	1
MONTANA STATE UNIVERSITY-BILLINGS	Montana	1,479	466	1,013	3	17	34	29	14	4	0
MONTANA TECH OF THE UNIV OF MONTANA	Montana	1,015	333	682	2	13	26	29	21	8	1
STATE-COLLEGE/NO REPORTS NOW	Iowa	940	940	0	6	21	35	22	12	4	0
CARROLL COLLEGE	Montana	865	193	672	2	10	23	29	25	10	1
UNIVERSITY OF MONTANA WESTERN	Montana	685	171	514	2	18	38	29	11	2	0
ROCKY MOUNTAIN COLLEGE	Montana	624	112	512	2	15	30	29	17	7	0
MONTANA STATE UNIVERSITY-NORTHERN	Montana	595	189	406	5	22	35	26	10	3	0
UNIVERSITY OF GREAT FALLS	Montana	480	101	379	3	21	34	26	13	2	0
FLATHEAD VALLEY COMMUNITY COLLEGE	Montana	464	212	252	5	20	36	24	13	3	0
UNIVERSITY OF WASHINGTON	Washington	367	67	300	1	4	17	29	30	17	1
MONTANA STATE UNIV C TECH-GREAT FALLS	Montana	334	102	232	4	19	31	29	15	3	0
UNIVERSITY OF MONTANA-HELENA C OF TECH	Montana	306	86	220	5	24	38	26	6	1	0
STATE-NO COLLEGE PLANS	Iowa	261	261	0	15	43	26	11	4	1	0
GONZAGA UNIVERSITY	Washington	254	48	206	1	6	17	31	27	15	2
UNIVERSITY OF OREGON	Oregon	240	46	194	2	6	22	35	23	12	1
BOISE STATE UNIVERSITY	Idaho	204	44	160	1	10	22	30	27	9	0
MILES COMMUNITY COLLEGE	Montana	200	53	147	5	24	39	23	9	2	0
ARIZONA STATE UNIVERSITY	Arizona	196	64	132	3	9	23	33	23	8	2
MONTANA BIBLE COLLEGE	Montana	195	63	132	3	16	32	33	14	2	0
DAWSON COMMUNITY COLLEGE	Montana	174	67	107	6	25	35	24	9	1	0
WASHINGTON STATE UNIVERSITY	Washington	171	32	139	1	3	16	32	34	12	2
NORTHWEST COLLEGE	Wyoming	148	48	100	0	12	35	33	16	3	1
ART INSTITUTE OF SEATTLE THE	Washington	139	26	113	2	19	32	28	16	3	0
NCAA ELIGIBILITY CENTER	Indiana	137	42	95	0	4	25	30	21	18	1
COLORADO STATE UNIVERSITY	Colorado	128	32	96	1	5	18	32	22	20	2
UNIVERSITY OF WYOMING	Wyoming	128	20	108	2	6	24	33	23	12	1
BRIGHAM YOUNG UNIVERSITY	Utah	121	53	68	3	2	13	24	25	28	4
BRIGHAM YOUNG UNIVERSITY-IDAHO	Idaho	116	55	61	1	4	21	30	28	15	2
All Other Institutions		8,381	1,932	6,449	2	11	23	26	21	14	2
Total		26,522	8,716	17,806	3	13	27	28	19	9	1

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: 9,611

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	8,781	976,031	19.2	21.3	6.7	7.1	18.7	20.6
Black/African American	57	114,263	15.6	16.4	5.9	6.3	15.4	16.3
American Indian/Alaska Native	400	6,408	14.0	16.8	5.6	6.2	13.8	16.5
White	6,777	520,054	19.7	23.1	6.8	7.3	19.2	22.1
Hispanic/Latino	431	167,575	17.6	18.5	6.3	6.9	17.1	18.4
Asian	82	61,663	20.2	23.7	7.1	7.7	19.9	22.9
Native Hawaiian/Other Pac. Isl.	26	3,742	15.8	17.7	5.7	6.6	15.2	17.6
Two or more races	429	39,565	18.7	21.4	6.6	7.1	18.3	20.7
Prefer not/No Response	579	62,761	19.0	21.6	6.4	7.1	18.3	20.9
Males	4,388	438,500	18.7	21.1	6.4	6.9	18.0	20.2
Females	4,203	530,240	19.8	21.6	7.1	7.3	19.5	21.1
Missing	190	7,291	17.2	16.0	6.0	5.9	16.6	15.7

