

ACT Profile Report - State

Graduating Class 2011
Iowa



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This report provides information about the performance of your 2011 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 2011 and tested under standard time conditions.

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 meeting or exceeding 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 are:

College Course/Course Area	ACT Test	Benchmark Score
English Composition	English	18
Algebra	Mathematics	22
Social Sciences	Reading	21
Biology	Science	24

For more information, go to www.act.org

How to Improve Scores and Increase College Readiness

31% 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: 22,968 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. 79% 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 6% of the cohort took less than three years of math courses. Of these students, 8% were college ready. 19% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 19% of these students were college ready. In comparison, 65% of the students who took 3 or more years of math beyond Algebra I, Algebra II, and Geometry were college ready. Getting more students ready for Algebra prior to 9th grade will increase the chances that students will be prepared for and take advanced-level math courses.

Similarly, Table 3.2 reports 9% of the cohort took less than three years of natural science courses. 17% of these students were college ready. In comparison, 42% 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 37% 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 your regional office at 847-634-2560.

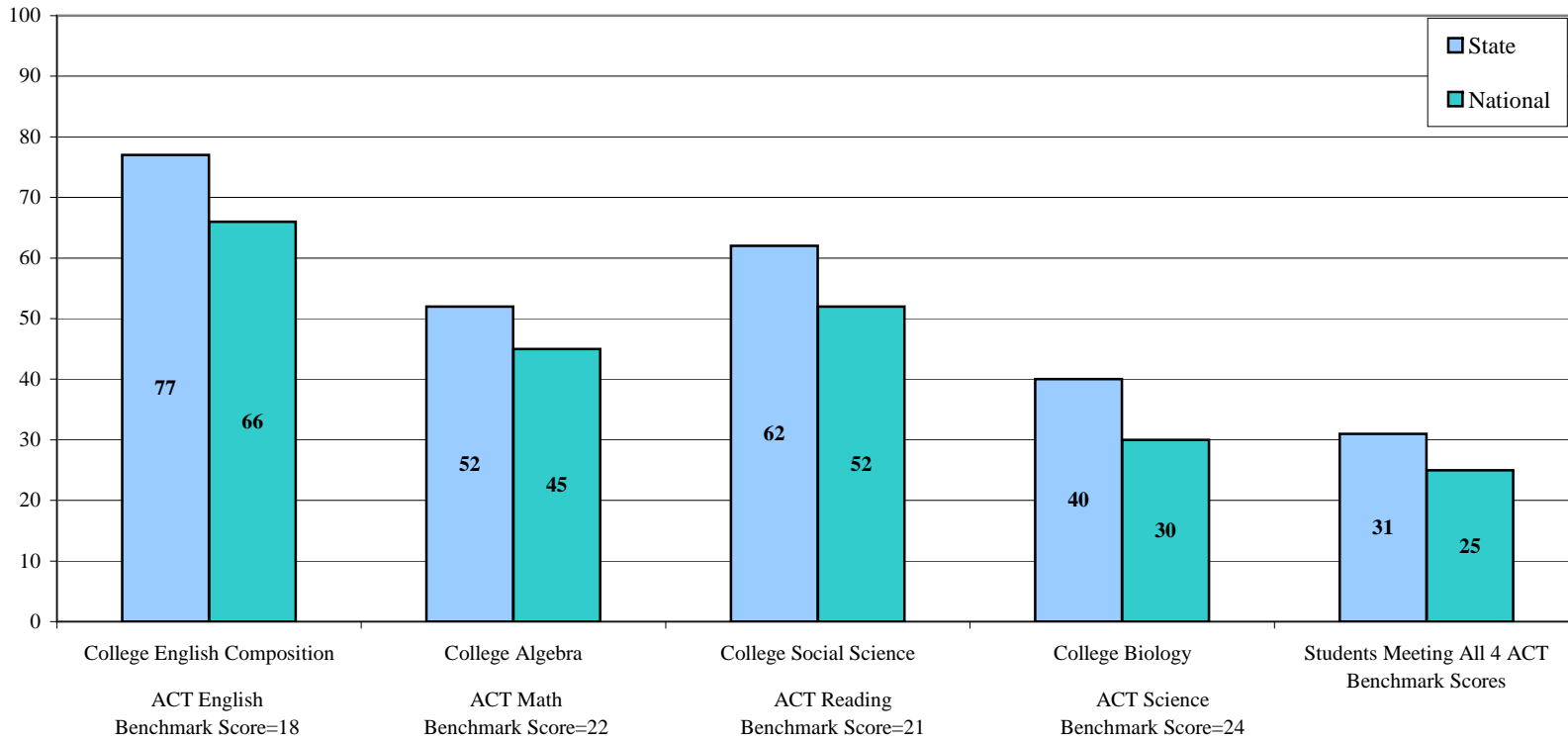
Section I

Executive Summary

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

Total Students in Report: 22,968

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: 22,968

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

Year	Number of Students Tested		Percent Meeting Benchmarks									
			English		Mathematics		Reading		Science		Meeting All Four	
	State	National	State	National	State	National	State	National	State	National	State	National
2007	23,016	1,300,599	78	69	50	43	61	53	36	28	28	23
2008	22,950	1,421,941	79	68	50	43	63	53	37	28	29	22
2009	22,377	1,480,469	79	67	50	42	64	53	37	28	29	23
2010	22,943	1,568,835	77	66	51	43	61	52	37	29	30	24
2011	22,968	1,623,112	77	66	52	45	62	52	40	30	31	25

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
2007	23,016	1,300,599	21.6	20.7	21.9	21.0	22.6	21.5	22.3	21.0	22.3	21.2
2008	22,950	1,421,941	21.9	20.6	22.0	21.0	22.9	21.4	22.3	20.8	22.4	21.1
2009	22,377	1,480,469	21.9	20.6	21.9	21.0	22.9	21.4	22.4	20.9	22.4	21.1
2010	22,943	1,568,835	21.8	20.5	21.8	21.0	22.6	21.3	22.3	20.9	22.2	21.0
2011	22,968	1,623,112	21.7	20.6	21.9	21.1	22.6	21.3	22.4	20.9	22.3	21.1

Table 1.3. Five Year Trends—Average ACT Scores Nationwide

Year	Number of Students Tested	Average ACT Scores				
		English	Mathematics	Reading	Science	Composite
2007	1,300,599	20.7	21.0	21.5	21.0	21.2
2008	1,421,941	20.6	21.0	21.4	20.8	21.1
2009	1,480,469	20.6	21.0	21.4	20.9	21.1
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

Total Students in Report: 22,968

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
2007	13,735	6,727	60	29	22.5	19.8	22.7	20.1	23.4	21.0	23.0	20.9	23.1	20.6
2008	15,732	5,814	69	25	22.6	19.8	22.7	20.1	23.5	21.2	22.9	20.7	23.1	20.6
2009	17,450	4,613	78	21	22.6	19.3	22.6	19.4	23.6	20.6	23.0	20.3	23.1	20.1
2010	17,990	4,554	78	20	22.6	18.8	22.5	19.1	23.4	20.0	23.0	20.0	23.0	19.6
2011	18,228	4,236	79	18	22.5	19.0	22.6	19.3	23.3	20.2	23.1	20.2	23.0	19.8

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.

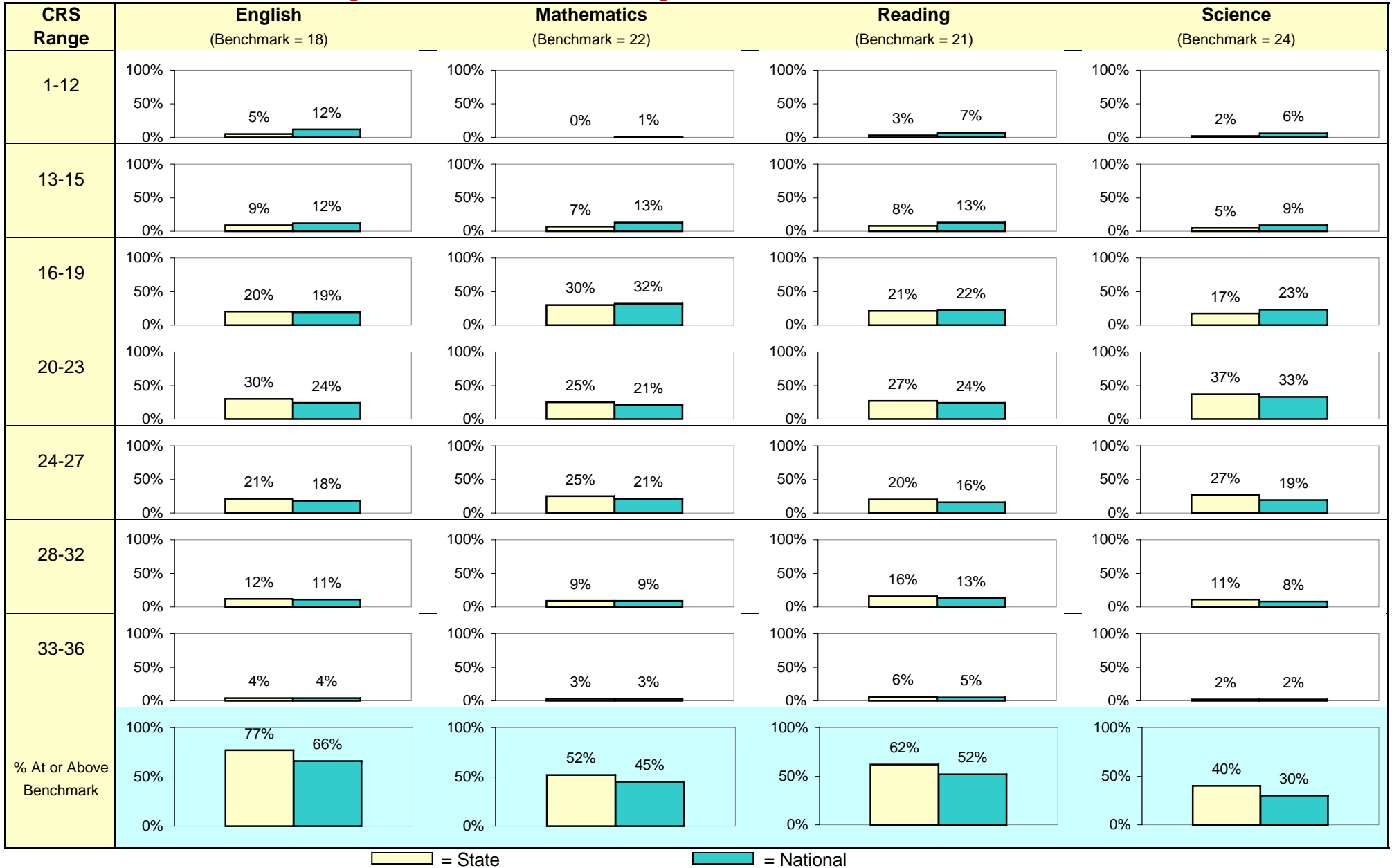
Table 1.5. Five Year Trends—Percent and Average Composite Score by Race/Ethnicity¹

	2007			2008			2009			2010			2011		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
All Students	23,016	100	22.3	22,950	100	22.4	22,377	100	22.4	22,943	100	22.2	22,968	100	22.3
Black/African American	402	2	18.5	435	2	17.8	448	2	18.3	583	3	17.3	583	3	17.1
American Indian/Alaska Native	64	0	20.5	67	0	20.9	81	0	20.2	81	0	20.3	68	0	20.3
White	19,388	84	22.4	19,938	87	22.5	19,741	88	22.6	19,967	87	22.5	19,652	86	22.6
Hispanic/Latino	448	2	20.1	461	2	20.1	556	2	19.9	700	3	18.9	927	4	19.6
Asian	381	2	22.7	444	2	22.7	429	2	22.7	537	2	22.5	537	2	22.9
Native Hawaiian/Other Pacific Islander	0	0	.	0	0	.	0	0	.	0	0	.	1	0	20.0
Two or more races	217	1	22.3	260	1	21.9	336	2	21.9	371	2	21.5	431	2	21.4
Prefer not to respond/No response	2,116	9	22.4	1,345	6	23.0	786	4	22.8	704	3	21.1	769	3	21.5

¹Refer to the section header on page 5 for a description of race/ethnicity changes.

Total Students in Report: 22,968

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



Section II

Academic Achievement

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

Total Students in Report: 22,968

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	47	100	69	100	163	100	70	100	7	100	36
35	271	100	132	100	190	99	125	100	64	100	35
34	299	99	227	99	458	98	73	99	121	100	34
33	310	97	195	98	515	96	258	99	185	99	33
32	392	96	273	97	571	94	243	98	306	98	32
31	492	94	295	96	706	92	223	97	403	97	31
30	440	92	328	95	826	89	411	96	604	95	30
29	551	90	511	93	724	85	547	94	652	93	29
28	774	88	740	91	865	82	1,023	92	909	90	28
27	837	84	1,142	88	908	78	964	87	1,062	86	27
26	1,022	81	1,373	83	932	74	1,297	83	1,279	81	26
25	1,198	76	1,596	77	1,177	70	1,700	77	1,511	76	25
24	1,768	71	1,734	70	1,520	65	2,177	70	1,619	69	24
23	1,295	63	1,876	62	1,240	58	2,361	60	1,872	62	23
22	1,822	58	1,401	54	1,773	53	1,861	50	1,964	54	22
21	2,060	50	1,134	48	1,640	45	2,247	42	1,956	45	21
20	1,639	41	1,436	43	1,434	38	2,002	32	1,903	37	20
19	1,360	34	1,339	37	1,513	32	1,341	23	1,621	29	19
18	1,026	28	1,692	31	1,301	25	1,216	18	1,402	21	18
17	1,051	23	1,759	24	1,016	20	736	12	1,144	15	17
16	1,090	19	2,106	16	912	15	547	9	811	10	16
15	988	14	1,084	7	665	11	500	7	625	7	15
14	682	10	345	2	833	8	326	5	447	4	14
13	365	7	139	1	355	5	265	3	276	2	13
12	342	5	19	1	413	3	175	2	155	1	12
11	316	4	16	1	206	1	134	1	55	1	11
10	208	2	1	1	58	1	98	1	10	1	10
9	154	1	1	1	27	1	31	1	4	1	9
8	117	1	5	1	17	1	13	1	1	1	8
7	36	1	0	1	7	1	1	1	0	1	7
6	14	1	0	1	2	1	2	1	0	1	6
5	2	1	0	1	1	1	0	1	0	1	5
4	0	1	0	1	0	1	0	1	0	1	4
3	0	1	0	1	0	1	1	1	0	1	3
2	0	1	0	1	0	1	0	1	0	1	2
1	0	1	0	1	0	1	0	1	0	1	1
Avg (SD)	21.7 (5.7)		21.9 (4.9)		22.6 (5.8)		22.4 (4.6)		22.3 (4.6)		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: 22,968

Table 2.2. ACT Subscore Distributions, Cumulative Percentages (CP¹), and Subtest Score 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	715	100	383	100	693	100	664	100	987	100	248	100	329	100	18
17	1,024	97	59	98	1,009	97	1,665	97	900	96	232	99	23	99	17
16	1,093	92	1,626	98	1,835	93	1,609	90	1,026	92	569	98	614	98	16
15	1,378	88	1,703	91	1,516	85	1,845	83	1,653	87	816	95	1,514	96	15
14	1,366	82	1,743	84	1,528	78	1,443	75	2,084	80	2,038	92	2,182	89	14
13	1,663	76	2,059	76	2,054	71	2,072	69	2,501	71	2,994	83	2,426	80	13
12	1,892	68	3,013	67	2,973	62	2,082	60	1,808	60	2,339	70	2,987	69	12
11	2,730	60	3,150	54	2,382	49	2,596	50	3,070	52	3,671	60	3,081	56	11
10	3,174	48	2,717	40	2,416	39	1,917	39	2,011	39	3,260	44	3,383	43	10
9	2,184	35	2,467	28	2,229	29	1,991	31	1,808	30	3,343	30	2,566	28	9
8	1,785	25	1,578	18	1,639	19	1,503	22	2,272	22	1,564	15	1,809	17	8
7	1,441	17	1,017	11	1,435	12	1,170	16	1,860	12	876	8	813	9	7
6	1,115	11	582	6	624	5	1,296	10	648	4	417	4	663	5	6
5	640	6	448	4	358	3	659	5	225	1	344	3	211	3	5
4	457	3	287	2	185	1	307	2	66	1	88	1	199	2	4
3	245	1	110	1	74	1	103	1	35	1	116	1	92	1	3
2	66	1	22	1	15	1	43	1	11	1	24	1	57	1	2
1	0	1	4	1	3	1	3	1	3	1	29	1	19	1	1
Avg (SD)	10.9 (3.5)		11.2 (3.0)		11.6 (3.3)		11.5 (3.6)		11.5 (3.3)		11.0 (2.7)		11.1 (2.8)		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)	25	25	27	25	25
Q2 (50th Percentile)	22	22	22	22	22
Q1 (25th Percentile)	18	18	18	20	19

Total Students in Report: 22,968

Table 2.4. Average ACT Composite Scores for Race/Ethnicity¹ by Level of Preparation

Student Group	Race/Ethnicity	Number of Students Tested	Percent Taking Core or More ²	Average ACT Composite Score	
				Core or More	Less Than Core
State	All Students	22,968	79	23.0	19.8
	Black/African American	583	62	18.5	15.2
	American Indian/Alaska Native	68	68	21.0	18.6
	White	19,652	81	23.2	20.2
	Hispanic/Latino	927	70	20.5	18.0
	Asian	537	81	23.7	19.4
	Native Hawaiian/Other Pac. Isl.	1	100	20.0	.
	Two or more races	431	69	22.4	19.6
	Prefer not/No Response	769	60	23.4	19.4
National	All Students	1,623,112	74	21.9	19.0
	Black/African American	223,383	69	17.5	15.9
	American Indian/Alaska Native	14,970	63	19.7	17.1
	White	981,585	76	23.1	20.3
	Hispanic/Latino	200,661	72	19.4	17.2
	Asian	66,650	81	24.1	21.9
	Native Hawaiian/Other Pac. Isl.	2,244	78	20.0	17.8
	Two or more races	46,378	72	21.8	19.3
	Prefer not/No Response	87,241	65	22.1	18.7

¹Refer to the section header on page 11 for a description of race/ethnicity changes.

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.

Table 2.5. Average ACT Scores by Race/Ethnicity¹

Student Group	Race/Ethnicity	English	Mathematics	Reading	Science	Composite
State	All Students	21.7	21.9	22.6	22.4	22.3
	Black/African American	15.9	17.2	17.3	17.5	17.1
	American Indian/Alaska Native	18.9	19.9	21.0	20.7	20.3
	White	22.1	22.1	22.9	22.8	22.6
	Hispanic/Latino	18.5	19.4	20.0	19.9	19.6
	Asian	21.8	23.8	22.5	23.0	22.9
	Native Hawaiian/Other Pac. Isl.	20.0	21.0	21.0	18.0	20.0
	Two or more races	21.0	20.7	22.2	21.3	21.4
	Prefer not/No Response	20.9	21.1	22.2	21.4	21.5
National	All Students	20.6	21.1	21.3	20.9	21.1
	Black/African American	15.9	17.2	17.0	17.1	17.0
	American Indian/Alaska Native	17.5	18.6	19.1	18.9	18.6
	White	22.1	22.1	22.7	22.1	22.4
	Hispanic/Latino	17.6	19.2	18.9	18.8	18.7
	Asian	22.8	25.1	22.9	23.1	23.6
	Native Hawaiian/Other Pac. Isl.	18.6	19.9	19.4	19.5	19.5
	Two or more races	20.7	20.7	21.6	20.9	21.1
	Prefer not/No Response	20.2	20.9	21.0	20.4	20.7

¹Refer to the section header on page 11 for a description of race/ethnicity changes.

Total Students in Report: 22,968

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	927	4	623	3	1,326	6	526	2
	28 to 32	2,649	12	2,147	9	3,692	16	2,447	11
	24 to 27	4,825	21	5,845	25	4,537	20	6,138	27
	20 to 23	6,816	30	5,847	25	6,087	27	8,471	37
	16 to 19	4,527	20	6,896	30	4,742	21	3,840	17
	13 to 15	2,035	9	1,568	7	1,853	8	1,091	5
	01 to 12	1,189	5	42	0	731	3	455	2
National	33 to 36	68,159	4	49,703	3	81,236	5	32,031	2
	28 to 32	174,801	11	144,331	9	211,084	13	130,969	8
	24 to 27	286,161	18	344,894	21	265,974	16	316,182	19
	20 to 23	394,076	24	332,913	21	382,505	24	530,056	33
	16 to 19	309,855	19	525,628	32	360,259	22	366,855	23
	13 to 15	201,235	12	217,338	13	214,265	13	153,754	9
	01 to 12	188,825	12	8,305	1	107,789	7	93,265	6

Table 2.7. Average ACT Scores by Gender

Student Group	Gender	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Males	10,636	46	21.4	22.6	22.4	23.1	22.5
	Females	12,181	53	22.1	21.2	22.8	22.0	22.1
	Missing	151	1	16.5	17.9	18.9	18.3	18.0
National	Males	739,070	46	20.2	21.6	21.1	21.4	21.2
	Females	879,957	54	20.9	20.6	21.4	20.5	21.0
	Missing	4,085	0	16.4	17.8	17.7	17.8	17.6

Table 2.8. Percent of Students Meeting College Readiness Benchmark Scores by Gender

Student Group	Gender	Percent of Students				Meet All Four
		English	Mathematics	Reading	Science	
State	Males	75	58	60	45	35
	Females	79	47	63	35	28
National	Males	64	49	51	34	28
	Females	69	41	53	26	22

Total Students in Report: 22,968

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	18,228	82	22.5	58	22.6	67	23.3	44	23.1	35	23.0
	Less than Core	4,236	59	19.0	29	19.3	45	20.2	22	20.2	15	19.8
	Missing ³	504	41	16.4	19	17.8	33	18.2	14	18.0	9	17.7
National	Core or More	1,202,164	72	21.5	51	21.8	57	22.0	34	21.6	29	21.9
	Less than Core	366,518	51	18.3	27	19.0	38	19.3	17	19.0	13	19.0
	Missing	54,430	38	16.3	21	18.0	27	17.7	12	17.7	9	17.5

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 meet 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	21,332	78	22.0	21,176	55	22.3	21,405	63	22.8	20,445	42	22.8
	Less than Core	1,208	59	18.9	1,323	8	16.9	1,133	47	20.4	2,078	17	19.5
	Missing ³	428	42	16.5	469	19	17.8	430	33	18.2	445	15	18.1
National	Core or More	1,510,179	68	20.9	1,494,425	47	21.4	1,424,252	54	21.6	1,367,777	33	21.4
	Less than Core	66,225	40	16.6	79,145	8	16.4	149,746	40	19.7	205,148	12	18.3
	Missing	46,708	39	16.5	49,542	21	18.1	49,114	28	17.9	50,187	13	17.8

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.

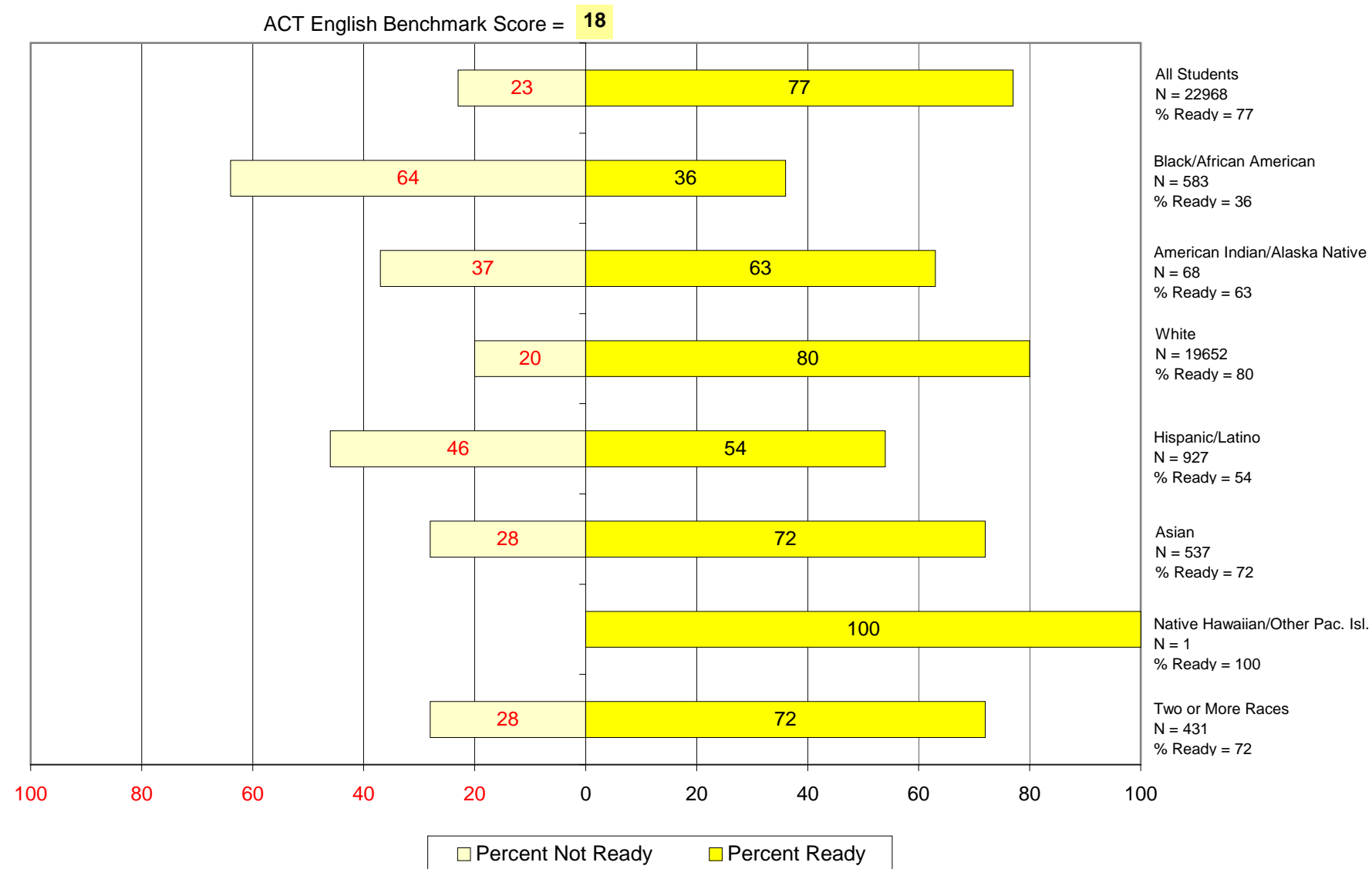
Section III

College Readiness and the Impact of Course Rigor

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

Total Students in Report: 22,968

Figure 3.1. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity¹: ENGLISH

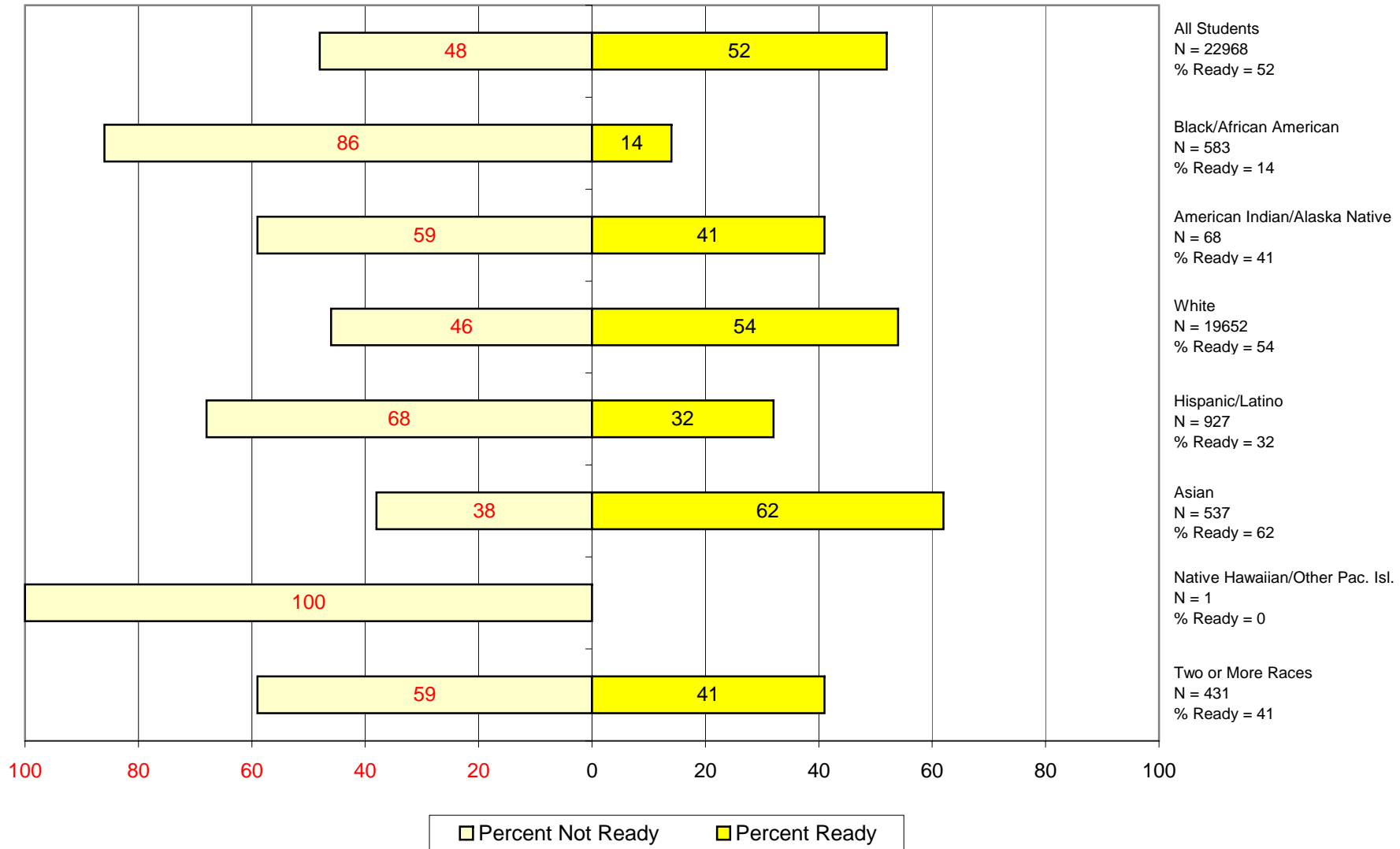


¹Refer to the section header on page 17 for a description of race/ethnicity changes.

Total Students in Report: 22,968

Figure 3.2. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity¹: MATHEMATICS

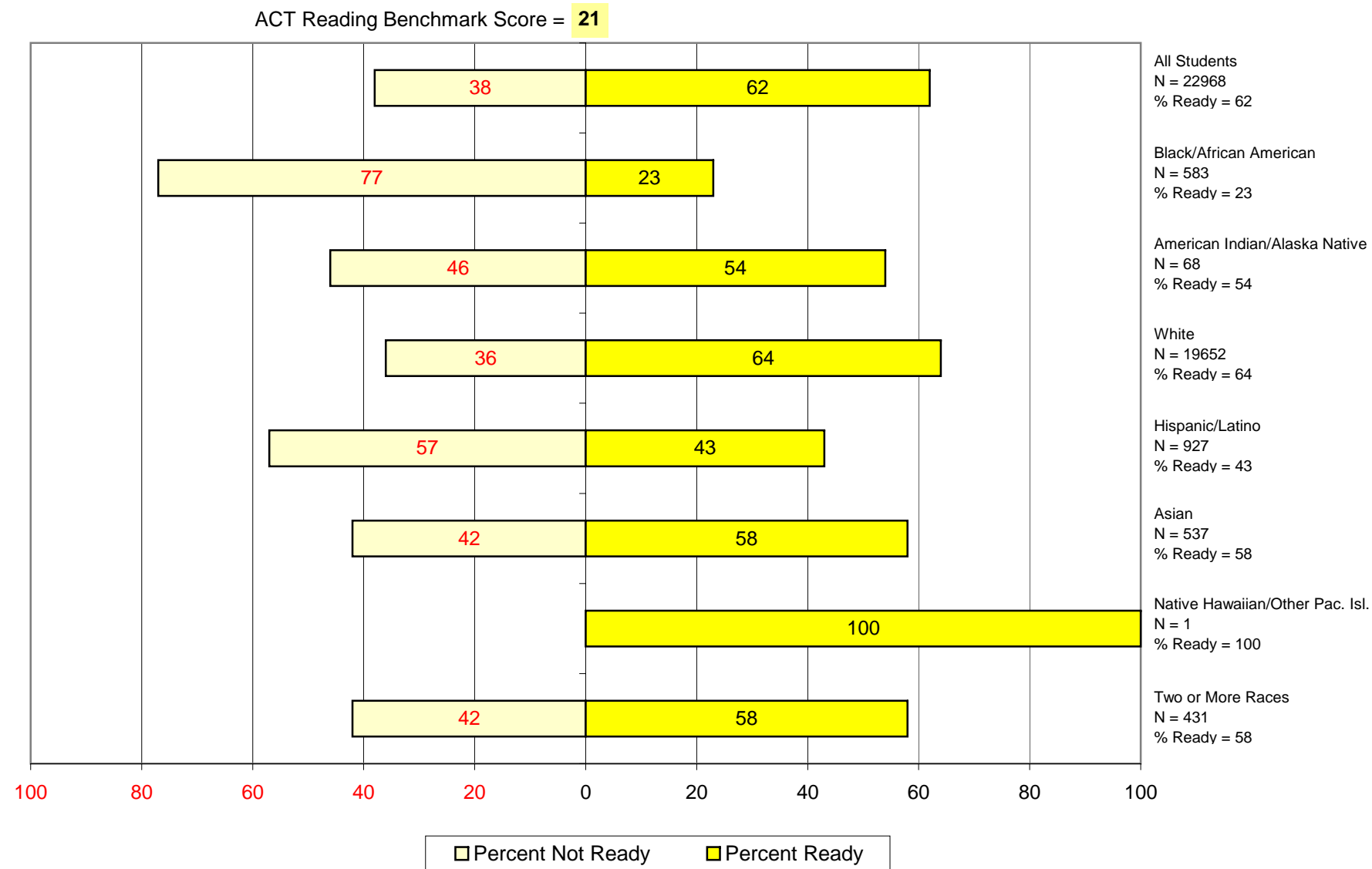
ACT Mathematics Benchmark Score = **22**



¹Refer to the section header on page 17 for a description of race/ethnicity changes.

Total Students in Report: 22,968

Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity¹: READING

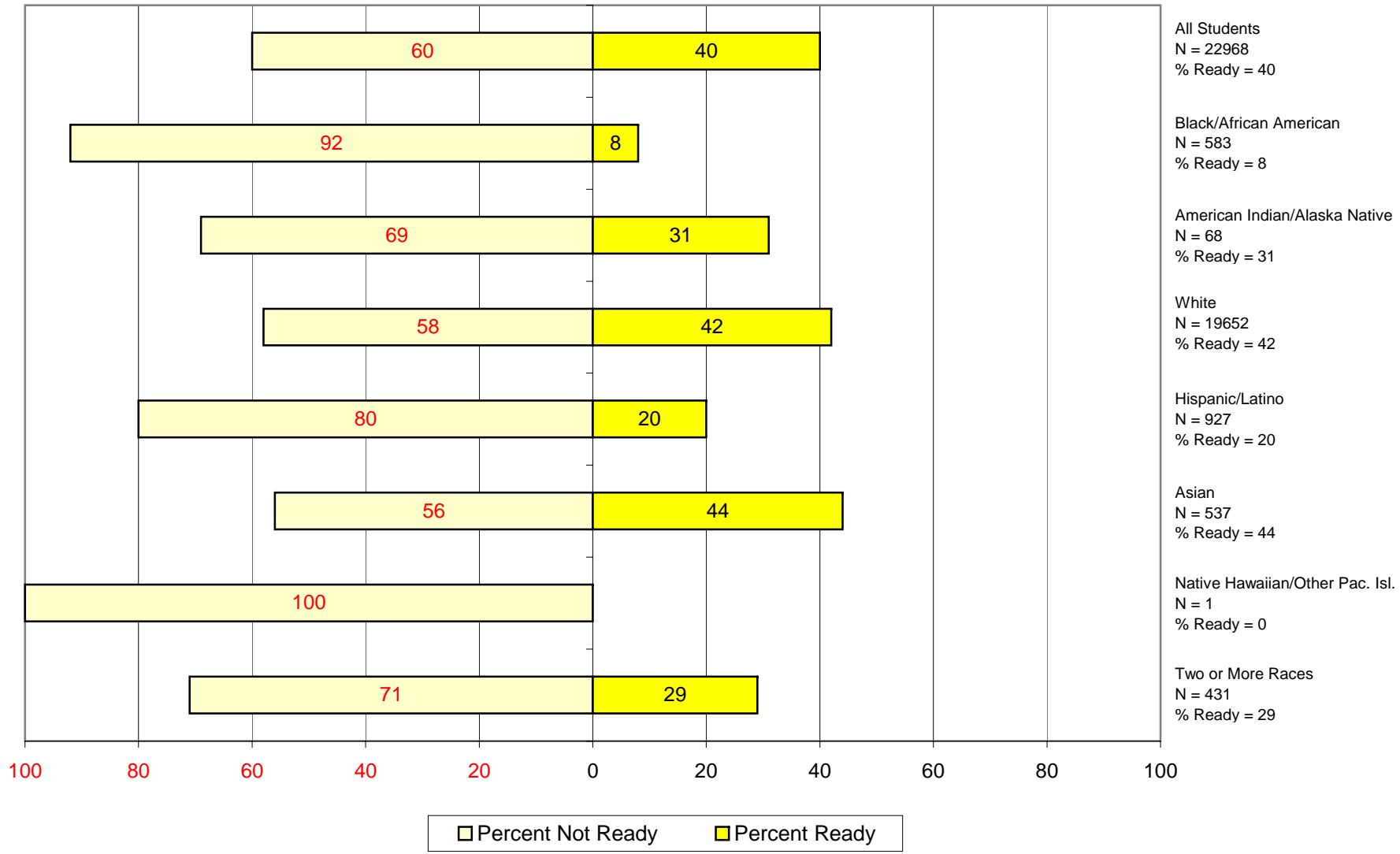


¹Refer to the section header on page 17 for a description of race/ethnicity changes.

Total Students in Report: 22,968

Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity¹: SCIENCE

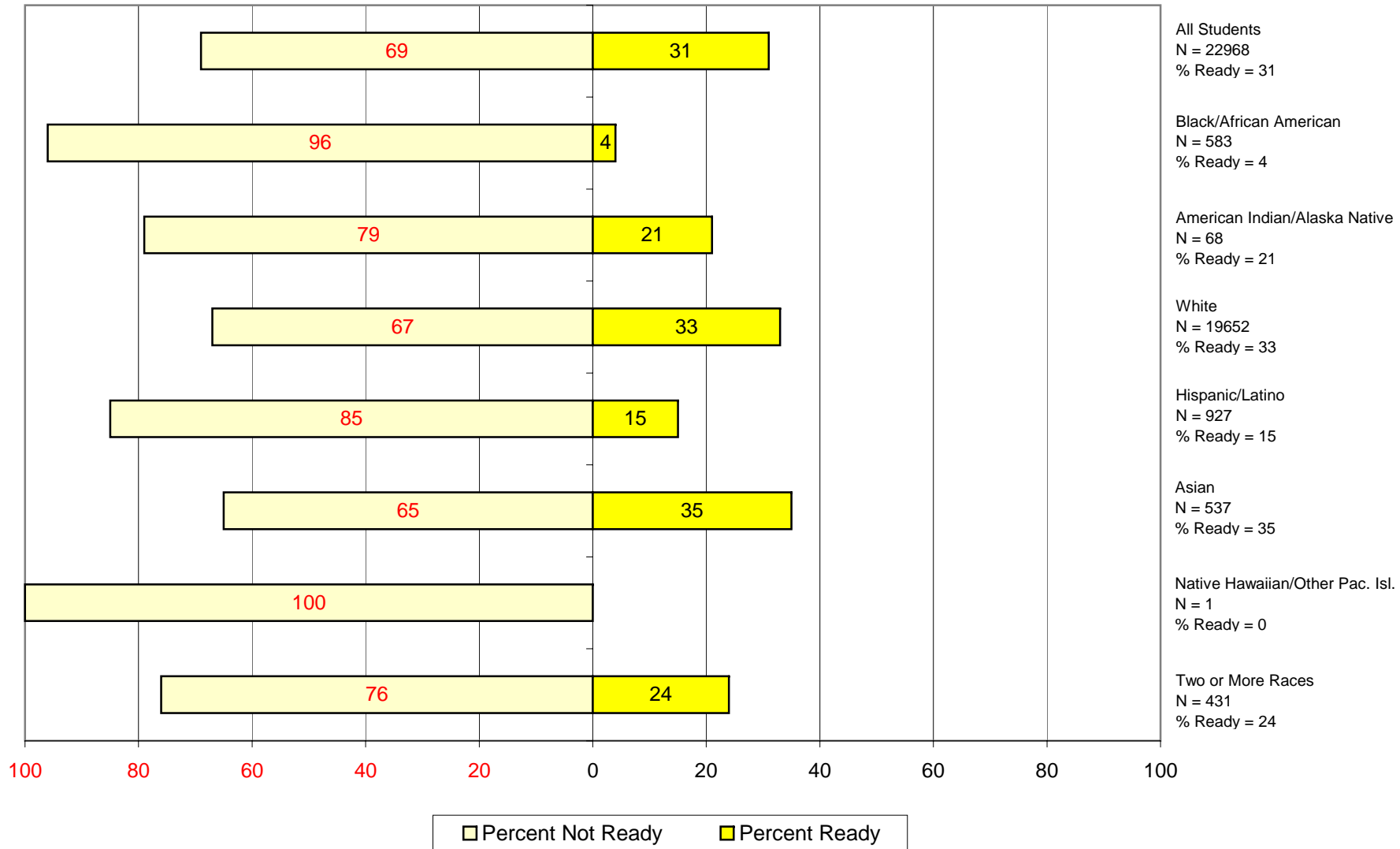
ACT Science Benchmark Score = **24**



¹Refer to the section header on page 17 for a description of race/ethnicity changes.

Total Students in Report: 22,968

Figure 3.5. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity¹: ALL FOUR



¹Refer to the section header on page 17 for a description of race/ethnicity changes.

Total Students in Report: 22,968

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	9,374	41	22.8	3.9	3,853	36	22.5	3.7	5,514	45	23.0	3.9
Eng 9, Eng 10, Eng 11, Eng 12	11,958	52	21.3	2.4	6,023	57	21.1	2.3	5,921	49	21.6	2.5
Less than 4 years of English	1,208	5	18.9	-	594	6	18.8	-	605	5	19.1	-
Zero years / no English courses reported	428	2	16.5	-	166	2	16.6	-	141	1	16.5	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	1,217	5	25.2	8.3	611	6	25.9	8.6	606	5	24.5	8.1
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,220	10	23.2	6.3	928	9	23.6	6.3	1,292	11	22.8	6.4
Alg 1, Alg 2, Geom, & Trig	1,472	6	21.4	4.5	635	6	22.0	4.7	836	7	20.9	4.5
Alg 1, Alg 2, Geom, & Other Adv Math	3,653	16	21.0	4.1	1,428	13	21.6	4.3	2,222	18	20.6	4.2
Other comb of 4 or more years of Math	7,187	31	24.8	7.9	3,814	36	25.4	8.1	3,368	28	24.0	7.6
Alg 1, Alg 2, & Geom	4,386	19	18.5	1.6	1,872	18	18.9	1.6	2,504	21	18.2	1.8
Other comb of 3 or 3.5 years of Math	1,041	5	21.0	4.1	535	5	21.3	4.0	503	4	20.7	4.3
Less than 3 years of Math	1,323	6	16.9	-	628	6	17.3	-	688	6	16.4	-
Zero years / no Math courses reported	469	2	17.8	-	185	2	18.3	-	162	1	17.2	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	512	2	22.5	2.1	261	2	22.2	1.9	251	2	22.9	2.3
Other comb of 4 or more years Social Science	12,999	57	23.1	2.7	5,983	56	23.0	2.7	7,003	57	23.2	2.6
US Hist, World Hist, & Am Gov	1,061	5	21.7	1.3	579	5	21.3	1.0	482	4	22.1	1.5
Other comb of 3 or 3.5 years of Social Science	6,833	30	22.4	2.0	3,104	29	22.3	2.0	3,719	31	22.5	1.9
Less than 3 years of Social Science	1,133	5	20.4	-	541	5	20.3	-	585	5	20.6	-
Zero years / no Social Science courses reported	430	2	18.2	-	168	2	17.7	-	141	1	18.1	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	9,847	43	23.8	4.3	5,181	49	24.4	4.7	4,658	38	23.2	3.8
Bio, Chem, Phys	1,414	6	24.8	5.3	656	6	25.8	6.1	754	6	24.1	4.7
Gen Sci ² , Bio, Chem	8,505	37	21.5	2.0	3,241	30	21.8	2.1	5,254	43	21.3	1.9
Other comb of 3 years of Natural Science	679	3	20.9	1.4	428	4	21.5	1.8	251	2	20.0	0.6
Less than 3 years of Natural Science	2,078	9	19.5	-	956	9	19.7	-	1,116	9	19.4	-
Zero years / no Natural Science courses reported	445	2	18.1	-	174	2	18.1	-	148	1	17.9	-

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: 22,968

Table 3.2. College Readiness Percents by Common Course Patterns

Course Pattern	State				National			
	N	Percent Taking Pattern	Avg ACT English	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT English	Percent Meeting Benchmark
ENGLISH COURSE PATTERN								
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	9,374	41	22.8	83	366,770	23	21.8	74
Eng 9, Eng 10, Eng 11, Eng 12	11,958	52	21.3	75	1,143,409	70	20.6	66
Less than 4 years of English	1,208	5	18.9	59	66,225	4	16.6	40
Zero years / no English courses reported	428	2	16.5	42	46,708	3	16.5	39
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	1,217	5	25.2	80	102,806	6	24.2	71
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,220	10	23.2	69	147,655	9	22.1	58
Alg 1, Alg 2, Geom, & Trig	1,472	6	21.4	52	115,939	7	19.7	34
Alg 1, Alg 2, Geom, & Other Adv Math	3,653	16	21.0	47	271,304	17	19.9	36
Other comb of 4 or more years of Math	7,187	31	24.8	76	539,241	33	23.8	66
Alg 1, Alg 2, & Geom	4,386	19	18.5	19	238,527	15	17.3	12
Other comb of 3 or 3.5 years of Math	1,041	5	21.0	44	78,953	5	19.9	35
Less than 3 years of Math	1,323	6	16.9	8	79,145	5	16.4	8
Zero years / no Math courses reported	469	2	17.8	19	49,542	3	18.1	21
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	512	2	22.5	60	47,284	3	22.5	59
Other comb of 4 or more years Social Science	12,999	57	23.1	65	845,170	52	21.9	56
US Hist, World Hist, & Am Gov	1,061	5	21.7	56	86,167	5	20.2	44
Other comb of 3 or 3.5 years of Social Science	6,833	30	22.4	61	445,631	27	21.1	51
Less than 3 years of Social Science	1,133	5	20.4	47	149,746	9	19.7	40
Zero years / no Social Science courses reported	430	2	18.2	33	49,114	3	17.9	28
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	9,847	43	23.8	53	686,167	42	22.1	39
Bio, Chem, Phys	1,414	6	24.8	61	160,020	10	23.1	46
Gen Sci ¹ , Bio, Chem	8,505	37	21.5	29	476,294	29	20.1	21
Other comb of 3 years of Natural Science	679	3	20.9	29	45,296	3	19.6	20
Less than 3 years of Natural Science	2,078	9	19.5	17	205,148	13	18.3	12
Zero years / no Natural Science courses reported	445	2	18.1	15	50,187	3	17.8	13

¹Includes General, Physical and Earth Sciences.

Section IV

Career and Educational Aspirations

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

Tables within this section have been changed to reflect the updated Educational Major categories implemented by ACT in the fall of 2010.

Total Students in Report: 22,968

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

Planned Educational Major ¹	All Students			Plan on 2 Years or Less of College			Plan on 4 Years or More of College		
	N ²	Percent ³	Avg ACT Comp	N	Percent ³	Avg ACT Comp	N	Percent ³	Avg ACT Comp
Agriculture & Natural Resources Conservation	740	3	20.6	99	8	18.6	610	3	21.0
Architecture	248	1	22.1	13	1	17.7	229	1	22.3
Area, Ethnic, & Multidisciplinary Studies	58	0	24.2	3	0	18.0	52	0	24.4
Arts: Visual & Performing	1,377	6	22.4	94	7	18.4	1,204	6	22.8
Business	2,172	9	21.7	120	9	17.6	1,984	10	22.0
Communications	386	2	22.6	12	1	18.8	359	2	22.8
Community, Family, & Personal Services	751	3	20.0	103	8	18.1	595	3	20.4
Computer Science & Mathematics	592	3	23.8	31	2	19.8	526	3	24.0
Education	1,921	8	21.6	45	3	17.6	1,805	9	21.7
Engineering	1,085	5	24.8	27	2	17.3	1,028	5	25.0
Engineering Technology & Drafting	685	3	23.5	42	3	18.6	610	3	24.0
English & Foreign Languages	298	1	24.6	9	1	18.3	271	1	24.9
Health Administration & Assisting	302	1	20.2	42	3	17.7	240	1	20.8
Health Sciences & Technologies	4,241	18	22.2	203	16	18.5	3,913	19	22.4
Philosophy, Religion, & Theology	130	1	22.6	3	0	15.3	119	1	22.8
Repair, Production, & Construction	287	1	19.0	153	12	18.0	120	1	20.2
Sciences: Biological & Physical	1,411	6	24.3	17	1	19.2	1,354	7	24.4
Social Sciences & Law	1,398	6	22.6	27	2	18.7	1,329	7	22.8
Undecided	4,205	18	22.6	234	18	18.2	3,636	18	22.9
No Response	681	3	17.8	30	2	14.9	95	0	19.3

¹Refer to the section header on page 25 for a description of educational major changes.

²2-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.

³Percent of students tested within College Plan groups (All Students, 2-Year, 4-Year).

Total Students in Report: 22,968

Table 4.2. Average ACT Composite Scores for Racial/Ethnic¹ 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	231	17.9	14	13.3	1	10.0	194	18.6	15	13.9
2-yr College Degree	1,076	18.2	33	13.8	6	15.0	920	18.5	51	16.6
Bachelors Degree	12,405	21.6	253	17.1	35	20.6	11,024	21.9	438	19.2
Graduate Study	3,162	24.4	73	18.6	7	20.9	2,763	24.6	111	22.3
Prof. Level Degree	4,512	24.5	141	18.7	16	21.7	3,681	24.8	209	21.8
Other	377	19.9	11	15.8	0	.	316	20.3	19	18.8
No Response	1,205	20.5	58	14.4	3	21.7	754	21.9	84	15.6

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	231	17.9	2	17.0	0	.	2	13.5	3	18.7
2-yr College Degree	1,076	18.2	12	17.0	0	.	18	18.1	36	17.5
Bachelors Degree	12,405	21.6	200	20.6	1	20.0	217	20.9	237	21.8
Graduate Study	3,162	24.4	64	23.2	0	.	49	23.2	95	24.4
Prof. Level Degree	4,512	24.5	202	25.6	0	.	109	23.1	154	24.7
Other	377	19.9	8	17.0	0	.	11	20.5	12	17.8
No Response	1,205	20.5	49	23.3	0	.	25	18.8	232	18.8

¹Refer to the section header on page 25 for a description of race/ethnicity changes.

Total Students in Report: 22,968

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	
IOWA STATE UNIVERSITY	Iowa	6,514	2,951	3,563	0	3	16	34	29	16	2	
UNIVERSITY OF IOWA	Iowa	6,267	2,515	3,752	0	3	16	35	29	16	1	
UNIVERSITY OF NORTHERN IOWA	Iowa	5,211	1,494	3,717	0	3	19	38	28	11	1	
KIRKWOOD COMMUNITY COLLEGE	Iowa	1,411	445	966	1	9	34	36	16	4	0	
CENTRAL COLLEGE	Iowa	1,173	286	887	0	3	17	35	30	14	1	
DRAKE UNIVERSITY	Iowa	1,117	249	868	1	5	12	27	32	20	2	
WARTBURG COLLEGE	Iowa	983	224	759	0	3	17	36	30	14	1	
SIMPSON COLLEGE	Iowa	918	180	738	0	3	20	34	27	14	1	
DES MOINES AREA COMMUNITY COLL-ANKENY	Iowa	802	327	475	2	13	34	37	12	3	0	
COE COLLEGE	Iowa	660	141	519	0	2	19	38	29	12	0	
HAWKEYE COMMUNITY COLLEGE	Iowa	634	226	408	1	11	35	38	13	2	0	
GRAND VIEW UNIVERSITY	Iowa	574	148	426	2	13	33	31	18	3	0	
LUTHER COLLEGE	Iowa	555	137	418	0	2	11	31	34	20	2	
NORTHWEST MISSOURI ST UNIV	Missouri	504	152	352	0	4	26	38	23	9	0	
MORNINGSIDE COLLEGE	Iowa	482	129	353	0	6	20	41	24	10	0	
IOWA CENTRAL COMMUNITY COLL-FORT DODGE	Iowa	452	169	283	1	12	35	38	12	2	0	
IOWA WESTERN COMM C-COUNCIL BLFS	Iowa	439	188	251	1	10	39	34	14	3	0	
UNIVERSITY OF SOUTH DAKOTA	South Dakota	433	125	308	0	4	24	37	25	9	1	
CREIGHTON UNIVERSITY	Nebraska	432	104	328	0	1	8	26	37	24	4	
LORAS COLLEGE	Iowa	424	105	319	1	4	15	39	30	12	0	
SOUTH DAKOTA STATE UNIVERSITY	South Dakota	422	113	309	0	2	18	37	30	12	0	
NORTHWESTERN COLLEGE	Iowa	416	146	270	0	2	15	37	28	17	0	
ST AMBROSE UNIVERSITY	Iowa	406	79	327	0	3	19	38	26	13	0	
UNIVERSITY OF MINNESOTA-TWIN CITIES	Minnesota	382	74	308	0	2	9	26	36	25	3	
BUENA VISTA UNIVERSITY	Iowa	361	93	268	0	6	23	39	23	9	0	
UNIVERSITY OF NEBRASKA AT LINCOLN	Nebraska	358	90	268	0	3	16	33	30	18	2	
NCAA ELIGIBILITY CENTER	Indiana	345	139	206	1	3	21	34	26	13	0	
MOUNT MERCY UNIVERSITY	Iowa	325	80	245	0	5	23	46	21	5	0	
STATE-COLLEGE/NO REPORTS NOW	Iowa	319	319	0	13	33	28	14	7	4	1	
INDIAN HILLS COMMUNITY COLL-OTTUMWA	Iowa	318	127	191	2	8	34	38	15	3	0	
All Other Institutions		16,498	4,378	12,120	1	6	20	30	24	17	3	
Total		50,135	15,933	34,202	1	5	20	33	26	14	2	

Section V

Optional Writing Test Results

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

Total Students in Report: 22,968

Table 5.1. Average ACT English and Writing Scores by Race/Ethnicity¹ 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	5,122	905,035	24.5	21.5	7.3	7.1	23.2	20.8
Black/African American	122	112,251	18.5	16.7	6.4	6.3	17.9	16.5
American Indian/Alaska Native	11	5,519	20.8	18.4	7.5	6.5	20.7	18.0
White	4,254	522,234	24.8	23.2	7.4	7.3	23.4	22.2
Hispanic/Latino	217	128,599	21.2	18.4	6.8	6.8	20.3	18.2
Asian	215	51,829	25.4	23.8	7.7	7.6	24.1	22.9
Native Hawaiian/Other Pac. Isl.	0	1,332	.	19.7	.	7.2	.	19.5
Two or more races	113	27,722	24.1	21.6	7.2	7.0	22.8	20.8
Prefer not/No Response	190	55,549	25.5	21.3	7.4	7.0	24.0	20.5
Males	2,190	399,206	24.4	21.3	7.1	6.8	22.9	20.3
Females	2,930	503,699	24.6	21.8	7.5	7.3	23.4	21.1
Missing	2	2,130	20.5	17.6	8.0	6.2	21.0	17.1

¹Refer to the section header on page 29 for a description of race/ethnicity changes.

