

ACT High School Profile Report

The Graduating Class of 2008
Iowa



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Iowa

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This report provides information about the performance of your 2008 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 2008 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, the graduating class data for a school, district, state, and the nation 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, state, or the nation.

Further, 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.

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

29% of 2008 graduates 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. 22,950 ACT-tested graduates 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. 69% 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 9% of the cohort took less than three years of math courses. Of these students, 16% were college ready. 22% of the cohort reported taking the minimum core (Algebra I, Algebra II, and Geometry). 23% of these students were college ready. In comparison, 64% of the students who advanced beyond minimum core 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 12% of the cohort took less than three years of natural science courses. 18% of these students were college ready. In comparison, 40% 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 36% 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.

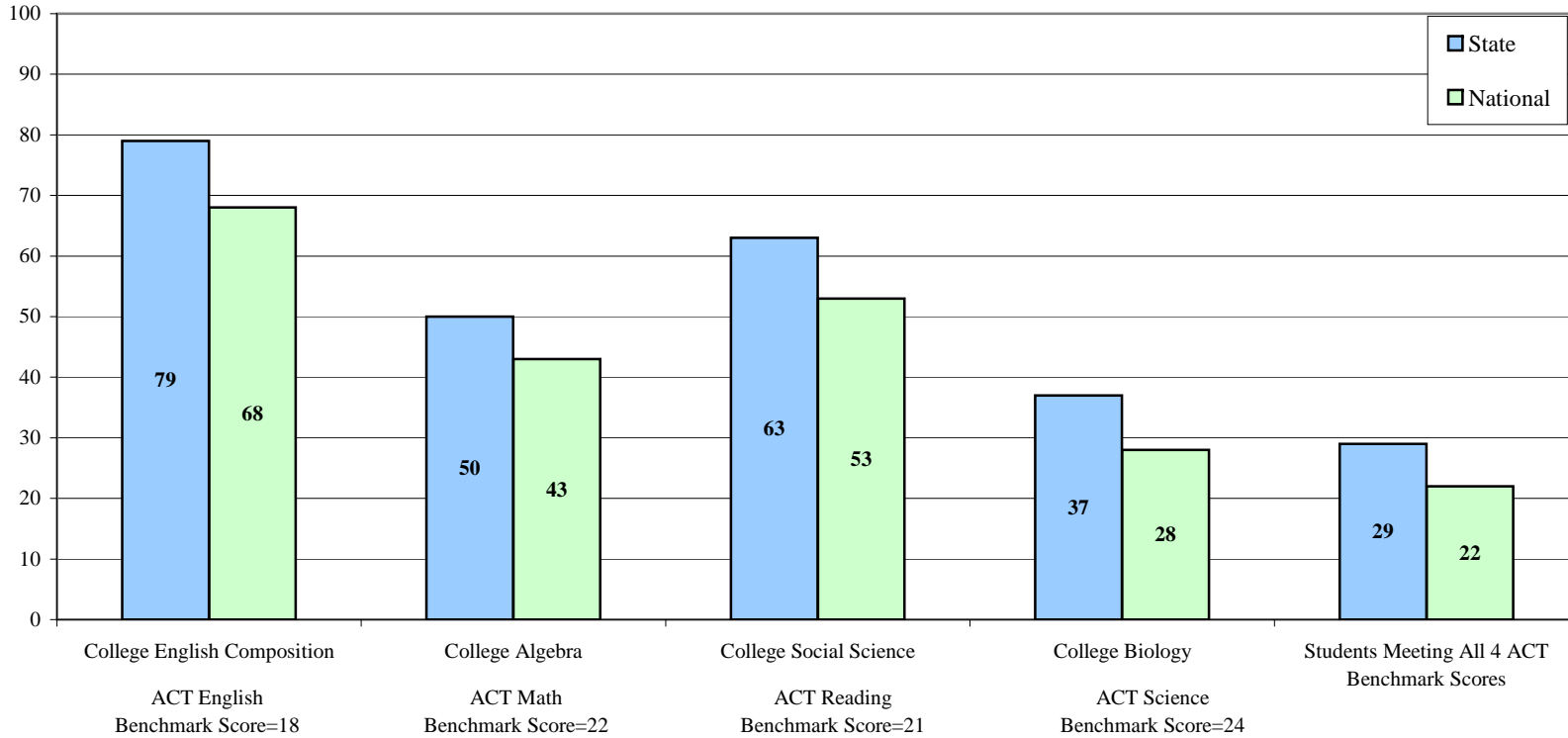
PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS. Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether among students with similar aspirations, academic performance is consistent across racial/ethnic groups.

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

Figure 1.1. Percent of ACT-Tested 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.

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

Grad 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
2004	23,591	1,171,460	77	68	49	40	60	52	34	26	27	21
2005	22,545	1,186,251	77	68	48	41	59	51	34	26	26	21
2006	22,233	1,206,455	77	69	50	42	62	53	35	27	27	21
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

Table 1.2. Five Year Trends—Average ACT Scores

Grad 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
2004	23,591	1,171,460	21.4	20.4	21.8	20.7	22.4	21.3	22.1	20.9	22.0	20.9
2005	22,545	1,186,251	21.5	20.4	21.7	20.7	22.4	21.3	22.1	20.9	22.0	20.9
2006	22,233	1,206,455	21.6	20.6	21.8	20.8	22.5	21.4	22.1	20.9	22.1	21.1
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

Table 1.3. Five Year Trends—Average ACT Scores Nationwide

Grad Year	Number of Students Tested	Average ACT Scores				
		English	Mathematics	Reading	Science	Composite
2004	1,171,460	20.4	20.7	21.3	20.9	20.9
2005	1,186,251	20.4	20.7	21.3	20.9	20.9
2006	1,206,455	20.6	20.8	21.4	20.9	21.1
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

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

Grad Year	Number of Students Tested		Percent ¹		Average ACT Scores									
	Core or More	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
2004	15,522	7,008	66	30	22.3	19.4	22.7	19.7	23.2	20.6	22.8	20.5	22.9	20.2
2005	14,799	6,565	66	29	22.4	19.5	22.6	19.7	23.2	20.6	22.8	20.6	22.9	20.2
2006	14,034	6,549	63	29	22.5	19.6	22.7	20.0	23.4	20.8	22.8	20.7	23.0	20.4
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

¹Percent of all students tested. Numbers will not add up to 100% due to student non-response.

Table 1.5. Five-Year Trends—Number, Percentage, and Average Composite Score for ACT-Tested Graduates by Race/Ethnicity

	2004			2005			2006			2007			2008		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
All Students	23,591	100	22.0	22,545	100	22.0	22,233	100	22.1	23,016	100	22.3	22,950	100	22.4
African American/Black	361	2	18.5	357	2	17.9	338	2	18.3	402	2	18.5	435	2	17.8
American Indian/Alaska Native	76	0	19.1	69	0	19.9	80	0	20.5	64	0	20.5	67	0	20.9
Caucasian American/White	21,122	90	22.1	20,100	89	22.2	19,379	87	22.3	19,388	84	22.4	19,938	87	22.5
Hispanic	372	2	19.4	393	2	20.0	373	2	19.8	448	2	20.1	461	2	20.1
Asian American/Pacific Islander	448	2	22.1	411	2	21.9	457	2	22.2	381	2	22.7	444	2	22.7
Other/No Response	1,212	5	22.2	1,215	5	22.1	1,606	7	22.0	2,333	10	22.4	1,605	7	22.8

Section II

Academic Achievement

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

ACT Scale Score	English		Mathematics		Reading		Science		Composite		ACT Scale Score
	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	
36	34	100	61	100	174	100	59	100	8	100	36
35	243	100	108	100	233	99	125	100	43	100	35
34	332	99	199	99	311	98	114	99	116	100	34
33	269	97	263	98	501	97	227	99	190	99	33
32	289	96	251	97	529	95	187	98	270	98	32
31	448	95	228	96	653	92	229	97	390	97	31
30	529	93	453	95	945	90	373	96	571	96	30
29	616	91	662	93	957	85	443	94	644	93	29
28	697	88	919	90	974	81	703	92	868	90	28
27	758	85	1,068	86	937	77	852	89	1,008	86	27
26	1,026	82	1,428	82	939	73	1,223	86	1,275	82	26
25	1,412	77	1,561	75	1,260	69	2,059	80	1,581	77	25
24	1,481	71	1,658	69	1,333	63	1,872	71	1,750	70	24
23	1,429	65	1,490	61	2,000	58	1,843	63	1,879	62	23
22	1,851	58	1,233	55	1,252	49	2,504	55	1,990	54	22
21	2,216	50	1,592	50	1,521	43	2,128	44	2,116	45	21
20	1,917	41	1,392	43	1,802	37	2,487	35	1,990	36	20
19	1,460	32	1,573	37	1,428	29	1,665	24	1,741	27	19
18	1,161	26	1,782	30	934	23	1,245	17	1,519	20	18
17	1,093	21	1,797	22	1,071	19	764	11	1,104	13	17
16	977	16	1,829	14	1,031	14	607	8	788	8	16
15	910	12	945	6	718	9	378	5	558	5	15
14	615	8	337	2	629	6	322	4	308	2	14
13	398	5	84	1	400	4	199	2	156	1	13
12	285	3	27	1	209	2	158	1	65	1	12
11	210	2	7	1	126	1	91	1	16	1	11
10	160	1	3	1	53	1	59	1	5	1	10
9	68	1	0	1	13	1	24	1	1	1	9
8	54	1	0	1	7	1	8	1	0	1	8
7	8	1	0	1	7	1	2	1	0	1	7
6	3	1	0	1	1	1	0	1	0	1	6
5	1	1	0	1	2	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	0	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)	21.9 (5.4)		22.0 (4.8)		22.9 (5.6)		22.3 (4.4)		22.4 (4.4)		Avg (SD)

¹Note: CP is the cumulative percent of students at or below a score point. Also, shaded portions of columns identify the students who met/exceeded the ACT College Readiness Benchmark Scores.

Table 2.2. ACT Subscore Distributions, Cumulative Percentages (CP¹), and Subtest Score Averages for All Students

ACT Scale Score	English				Reading				Mathematics						ACT Scale Score
	Usage/ Mechanics		Rhetorical Skills		Social Studies		Arts/ Literature		Pre/Elementary Algebra		Algebra/ Coordinate Geometry		Plane Geometry/ Trigonometry		
	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	
18	750	100	158	100	713	100	684	100	1,095	100	157	100	186	100	18
17	855	97	604	99	1,130	97	1,206	97	1,092	95	307	99	95	99	17
16	1,211	93	1,148	97	1,339	92	2,063	92	1,348	90	492	98	939	99	16
15	1,074	88	1,811	92	1,987	86	1,983	83	1,287	85	873	96	1,137	95	15
14	1,407	83	1,480	84	1,539	77	2,048	74	2,199	79	2,076	92	2,663	90	14
13	2,009	77	2,271	77	2,226	71	1,394	65	2,335	69	2,357	83	2,285	78	13
12	2,052	68	3,306	67	2,464	61	2,513	59	2,136	59	2,395	73	3,291	68	12
11	2,629	59	3,041	53	2,566	50	2,653	48	2,425	50	3,779	62	2,521	54	11
10	3,048	48	3,410	40	2,511	39	2,110	37	2,526	39	4,114	46	3,828	43	10
9	2,267	34	2,012	25	2,267	28	1,726	27	1,744	28	2,943	28	2,331	26	9
8	2,054	25	1,772	16	2,170	18	1,545	20	2,497	21	1,749	15	1,516	16	8
7	1,317	16	1,010	8	960	9	1,114	13	1,556	10	615	7	1,012	9	7
6	1,122	10	476	4	579	5	984	8	528	3	482	5	500	5	6
5	633	5	251	2	259	2	640	4	109	1	386	3	298	3	5
4	384	2	147	1	153	1	209	1	56	1	103	1	160	2	4
3	111	1	44	1	59	1	48	1	15	1	91	1	135	1	3
2	26	1	9	1	23	1	28	1	2	1	12	1	31	1	2
1	1	1	0	1	5	1	2	1	0	1	19	1	22	1	1
Avg (SD)	10.9 (3.4)		11.3 (2.8)		11.6 (3.2)		11.7 (3.5)		11.7 (3.3)		10.9 (2.6)		11.1 (2.8)		Avg (SD)

¹Note: CP is the cumulative percent of students at or below a score point.

Table 2.3. ACT Score Quartile Values for All Students

Quartile	English	Math	Reading	Science	Composite
Q3 (75th Percentile)	25	25	27	25	25
Q2 (50th Percentile)	21	22	23	22	22
Q1 (25th Percentile)	18	18	19	20	19

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

Student Group	Race/Ethnicity	Number of Students Tested	Percent Taking Core or More	Average ACT Composite Score	
				Core or More	Less Than Core
State	All Students	22,950	69	23.1	20.6
	African Am./Black	435	61	18.9	16.3
	Am. Indian/Alaska Native	67	67	22.1	18.4
	Caucasian Am./White	19,938	70	23.2	20.8
	Hispanic	461	62	21.2	18.6
	Asian Am./Pacific Islander	444	73	23.2	20.5
	Other/No Response	1,605	56	23.6	20.7
National	All Students	1,421,941	61	22.0	19.5
	African Am./Black	178,417	58	17.7	16.0
	Am. Indian/Alaska Native	14,380	53	20.3	17.6
	Caucasian Am./White	895,588	64	22.9	20.4
	Hispanic	114,697	60	19.6	17.4
	Asian Am./Pacific Islander	51,368	71	23.4	21.4
	Other/No Response	167,491	52	22.5	20.1

Table 2.5. Average ACT Scores by Race/Ethnicity

Student Group	Race/Ethnicity	English	Mathematics	Reading	Science	Composite
State	All Students	21.9	22.0	22.9	22.3	22.4
	African Am./Black	16.9	17.6	18.2	18.1	17.8
	Am. Indian/Alaska Native	19.8	20.2	21.3	21.6	20.9
	Caucasian Am./White	22.0	22.1	23.0	22.4	22.5
	Hispanic	19.5	19.6	20.7	20.1	20.1
	Asian Am./Pacific Islander	21.7	23.3	22.6	22.6	22.7
	Other/No Response	22.3	22.3	23.5	22.5	22.8
National	All Students	20.6	21.0	21.4	20.8	21.1
	African Am./Black	16.1	17.0	17.0	17.2	16.9
	Am. Indian/Alaska Native	18.1	18.8	19.6	19.2	19.0
	Caucasian Am./White	21.7	21.8	22.5	21.7	22.1
	Hispanic	17.7	19.0	18.9	18.7	18.7
	Asian Am./Pacific Islander	22.1	24.1	22.4	22.3	22.9
	Other/No Response	21.2	21.7	22.1	21.2	21.7

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	878	4	631	3	1,219	5	525	2
	28 to 32	2,579	11	2,513	11	4,058	18	1,935	8
	24 to 27	4,677	20	5,715	25	4,469	19	6,006	26
	20 to 23	7,413	32	5,707	25	6,575	29	8,962	39
	16 to 19	4,691	20	6,981	30	4,464	19	4,281	19
	13 to 15	1,923	8	1,366	6	1,747	8	899	4
	01 to 12	789	3	37	0	418	2	342	1
National	33 to 36	52,735	4	40,359	3	63,798	4	26,499	2
	28 to 32	146,337	10	138,694	10	203,096	14	89,946	6
	24 to 27	237,950	17	283,854	20	231,039	16	281,932	20
	20 to 23	383,117	27	294,322	21	343,326	24	474,554	33
	16 to 19	293,110	21	466,291	33	312,300	22	359,785	25
	13 to 15	175,652	12	188,580	13	191,145	13	121,336	9
	01 to 12	133,040	9	9,841	1	77,237	5	67,889	5

Table 2.7. Average ACT Scores by Gender

Student Group	Gender	N	Percent	Average ACT Scores				
				English	Math	Reading	Science	Composite
State	Males	10,541	46	21.4	22.8	22.8	22.8	22.6
	Females	12,013	52	22.2	21.2	22.9	21.8	22.2
	Missing	396	2	22.1	22.5	23.5	22.5	22.8
National	Males	625,887	44	20.1	21.6	21.2	21.3	21.2
	Females	764,282	54	21.0	20.4	21.5	20.4	21.0
	Missing	31,772	2	22.8	23.3	23.6	22.4	23.1

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

Student Group	Gender	Percent of Students				Meet All Four
		English	Math	Reading	Science	
State	Males	76	58	62	42	33
	Females	81	44	64	32	25
National	Males	65	47	51	32	26
	Females	70	38	53	24	19

Table 2.9. Number, College Readiness Benchmark Percent, and Average ACT Scores for ACT-Tested Graduates by Overall High School Curriculum

Student Group	Curriculum Taken ²	N	English		Mathematics		Reading		Science		Composite ¹	
			CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB %	Avg
State	Core	15,732	84	22.6	57	22.7	68	23.5	42	22.9	33	23.1
	Non-Core	5,814	67	19.8	33	20.1	51	21.2	24	20.7	16	20.6
	Missing	1,404	75	21.5	49	21.7	62	22.6	35	21.8	27	22.0
National	Core	873,743	75	21.6	50	21.9	59	22.3	33	21.6	27	22.0
	Non-Core	431,748	56	18.8	29	19.3	41	19.9	18	19.4	14	19.5
	Missing	116,450	62	19.9	42	20.8	48	20.8	27	20.3	23	20.6

¹% under Composite heading reflects the percent of students who meet all four benchmarks

²"Curriculum Taken" reflects overall high school curriculum.

For instance, "Core" results correspond to students taking four years of English AND three years each of math, social studies, and natural science.

Table 2.10. Number, College Readiness Benchmark Percent, and Average ACT Scores for ACT-Tested Graduates by Content-Specific Curriculum

Student Group	Curriculum Taken ¹	N	English			Mathematics			Reading			Science		
			CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg	
State	Core	19,174	80	22.1	19,766	54	22.4	19,828	64	23.0	19,047	40	22.6	
	Non-Core	2,640	70	20.2	1,887	16	18.0	1,927	54	21.6	2,658	18	19.9	
	Missing	1,136	79	22.1	1,297	49	21.7	1,195	65	23.1	1,245	37	22.1	
National	Core	1,216,115	70	20.8	1,192,135	46	21.4	1,137,832	54	21.6	1,063,049	32	21.4	
	Non-Core	111,558	57	18.8	124,104	14	17.4	183,026	45	20.4	253,561	13	18.7	
	Missing	94,268	64	20.2	105,702	42	20.8	101,083	50	21.1	105,331	28	20.5	

¹"Curriculum Taken" reflects content-specific curriculum.

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

Section III

College Readiness and the Impact of Course Rigor

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

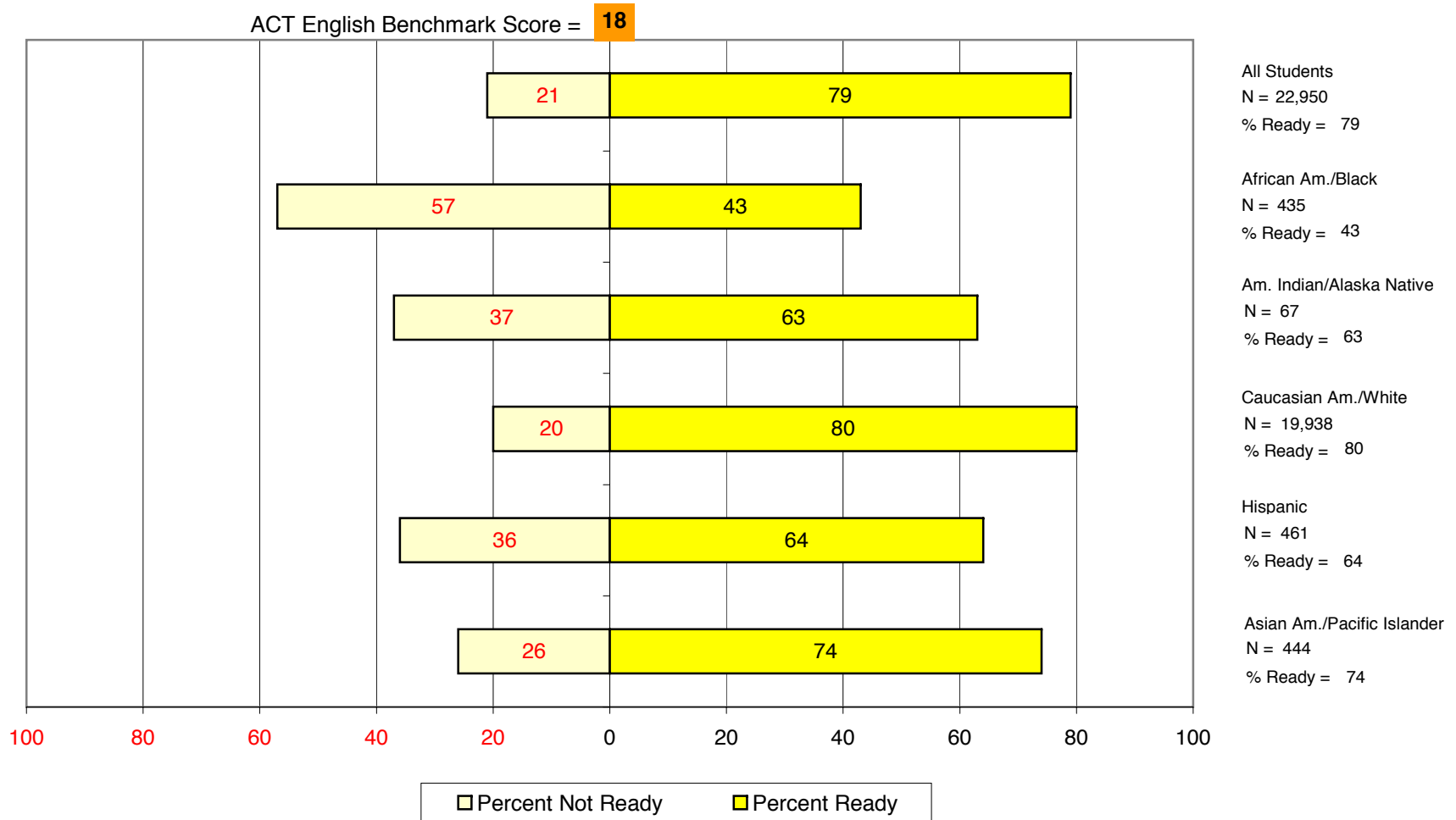


Figure 3.2. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

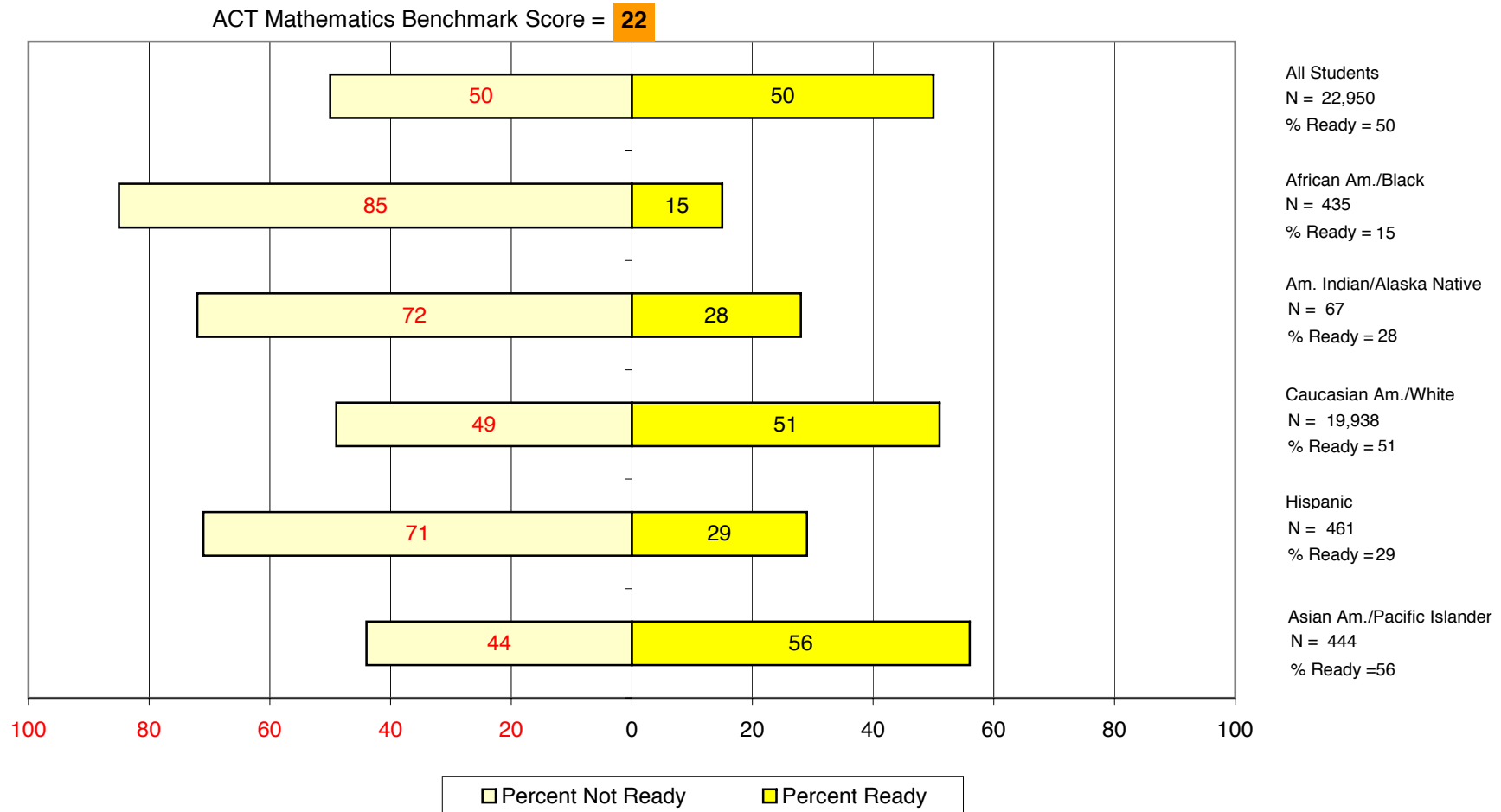


Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: READING

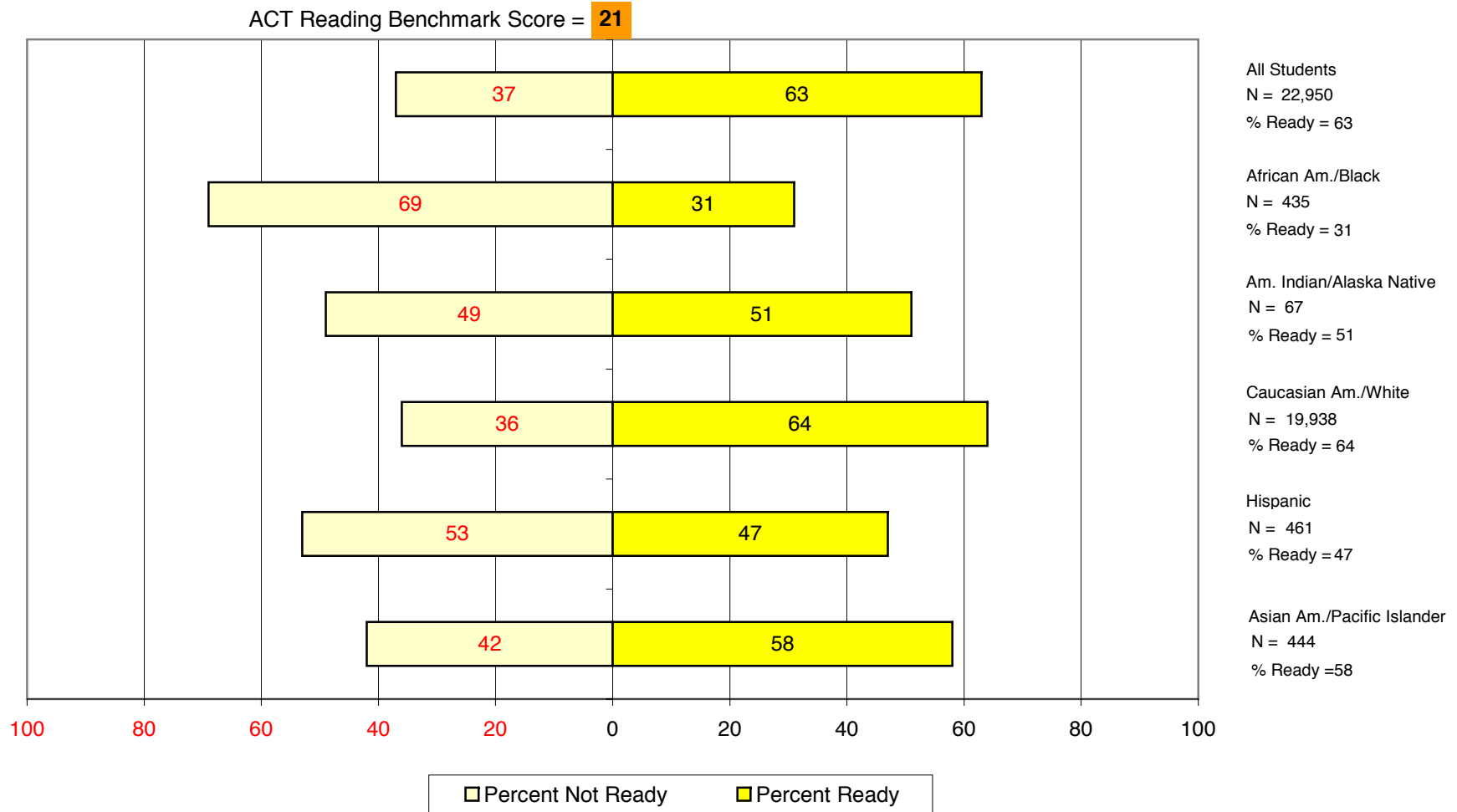


Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

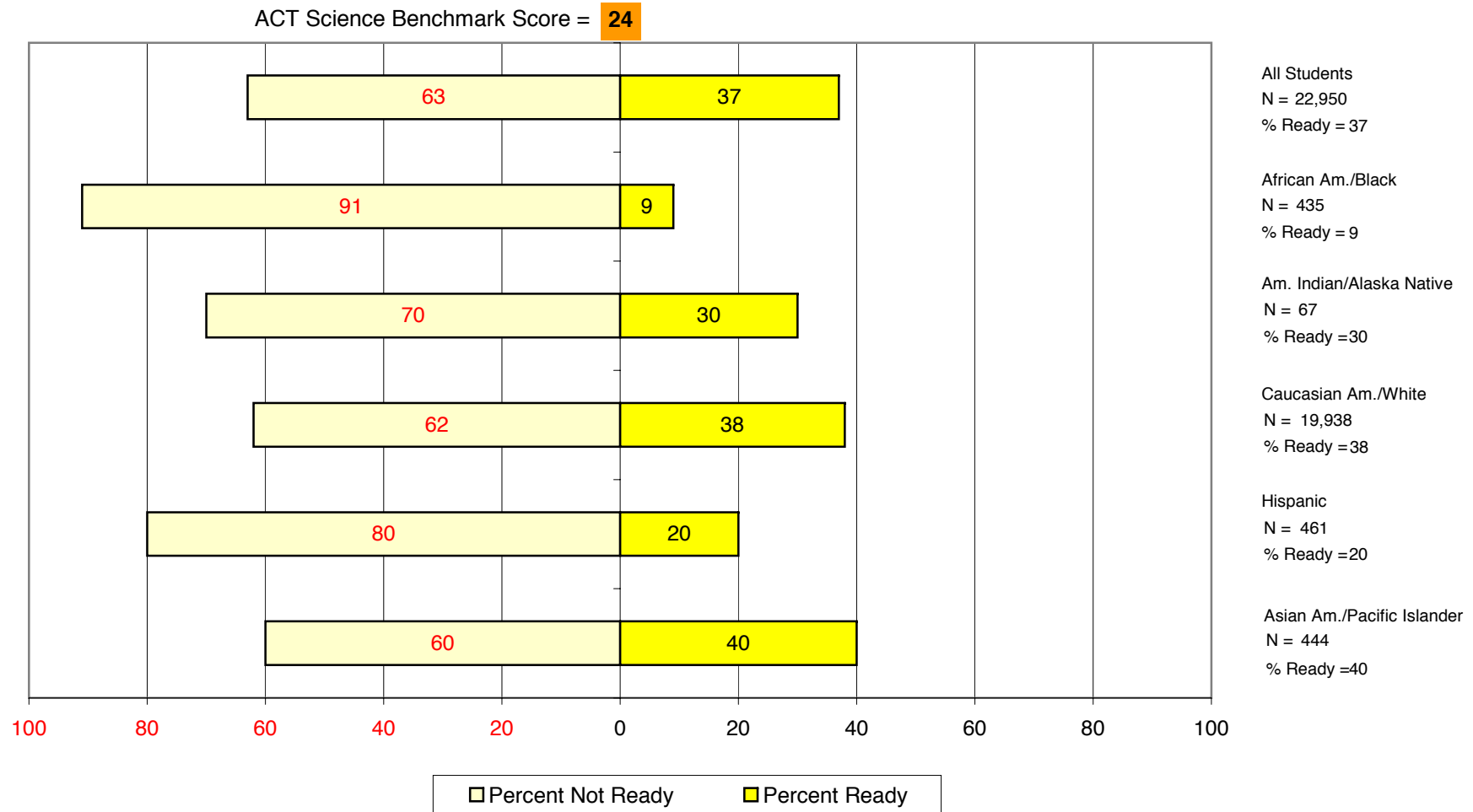


Figure 3.5. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR

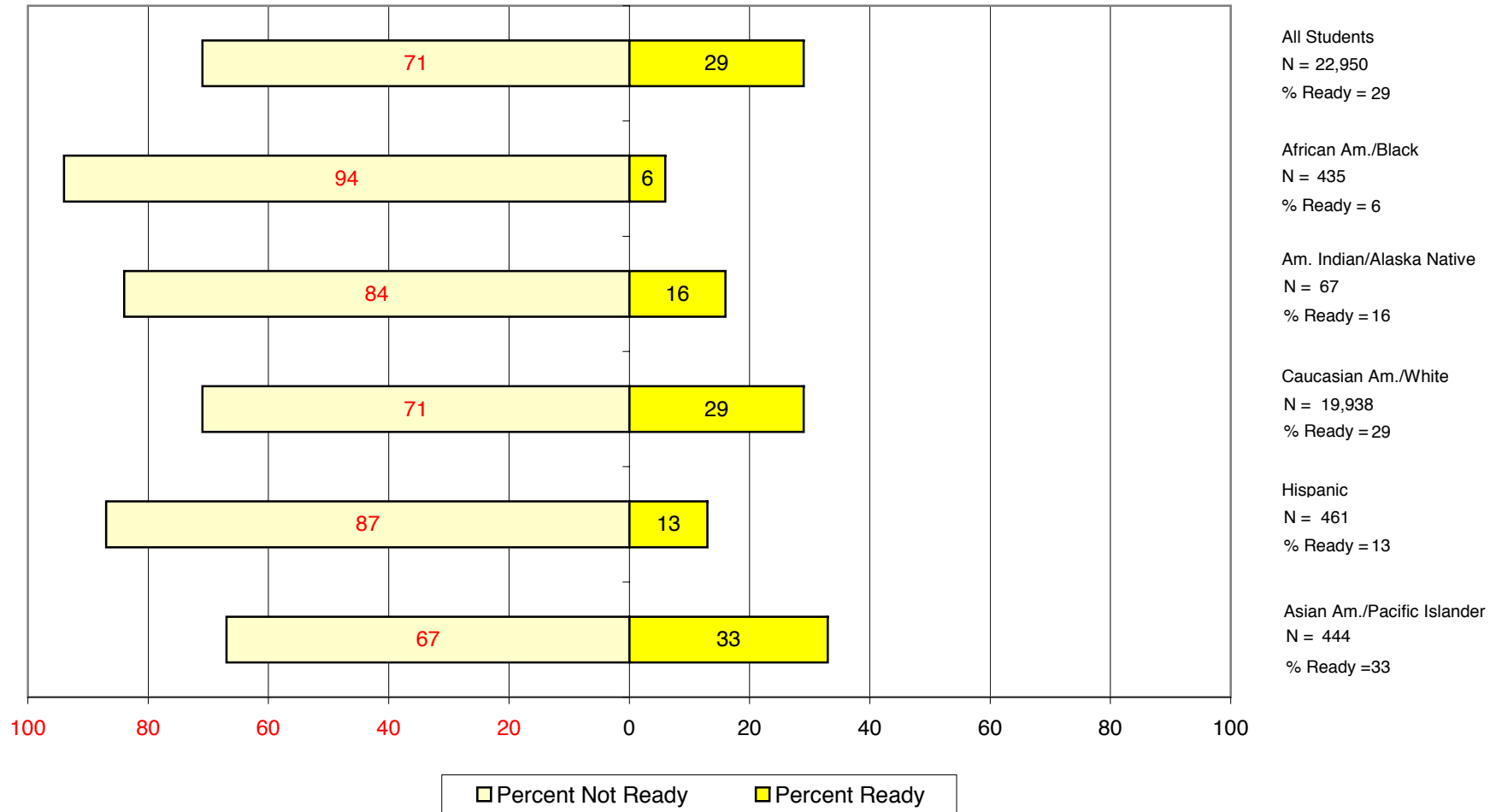


Table 3.1. Average ACT Scores and ACT Average Score Changes by Common Course Patterns

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	7,900	34	22.7	2.5	3,197	30	22.2	2.2	4,619	38	23.1	2.7
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	11,274	49	21.6	1.4	5,509	52	21.2	1.2	5,651	47	22.0	1.6
Less than 4 years of English	2,650	12	20.2	-	1,286	12	20.0	-	1,300	11	20.4	-
No English course/grade information reported	1,126	5	22.2	-	549	5	21.6	-	443	4	22.5	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	1,348	6	26.0	8.0	668	6	26.7	8.0	666	6	25.3	8.0
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	1,812	8	23.3	5.3	711	7	24.1	5.4	1,087	9	22.8	5.5
Alg 1, Alg 2, Geom, & Trig	1,785	8	21.9	3.9	775	7	22.4	3.7	991	8	21.5	4.2
Alg 1, Alg 2, Geom, & Other Adv Math	3,376	15	21.7	3.7	1,359	13	22.3	3.6	1,972	16	21.3	4.0
Other comb of 4 or more years of Math	5,270	23	25.0	7.0	2,866	27	25.7	7.0	2,340	19	24.3	7.0
Alg 1, Alg 2, & Geom (Min. Core)	5,025	22	19.1	1.1	2,053	19	19.7	1.0	2,923	24	18.7	1.4
Other comb of 3 or 3.5 years of Math	1,150	5	21.8	3.8	603	6	22.4	3.7	530	4	21.1	3.8
Less than 3 years of Math	1,998	9	18.0	-	930	9	18.7	-	1,029	9	17.3	-
No Math course/grade information reported	1,186	5	22.1	-	576	5	22.7	-	475	4	21.0	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	551	2	22.6	1.0	290	3	22.3	0.6	256	2	22.9	1.4
Other comb of 4 or more years Social Science	10,598	46	23.2	1.6	4,726	45	23.2	1.5	5,765	48	23.3	1.8
US Hist, World Hist, & Am Gov (Min. Core)	1,460	6	22.0	0.4	783	7	21.8	0.1	658	5	22.2	0.7
Other comb of 3 or 3.5 years of Social Science	7,219	31	22.8	1.2	3,243	31	22.7	1.0	3,902	32	23.0	1.5
Less than 3 years of Social Science	1,949	8	21.6	-	925	9	21.7	-	968	8	21.5	-
No Soc Sci course/grade information reported	1,173	5	23.2	-	574	5	23.1	-	464	4	22.8	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	8,388	37	23.7	3.8	4,351	41	24.2	4.1	3,940	33	23.1	3.4
Bio, Chem, Phys	1,278	6	24.6	4.7	629	6	25.2	5.1	640	5	24.0	4.3
Gen Sci ² , Bio, Chem (Min. Core)	8,657	38	21.3	1.4	3,273	31	21.6	1.5	5,294	44	21.1	1.4
Other comb of 3 years of Natural Science	724	3	22.3	2.4	460	4	22.6	2.5	248	2	21.7	2.0
Less than 3 years of Natural Science	2,725	12	19.9	-	1,248	12	20.1	-	1,429	12	19.7	-
No Nat Sci course/grade information reported	1,178	5	22.2	-	580	6	22.5	-	462	4	21.7	-

¹Course value added is defined as the average ACT score change compared to a less than core course sequence.

²Includes General, Physical and Earth Sciences.

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	7,900	34	22.7	84	266,394	19	21.8	76
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	11,274	49	21.6	78	949,721	67	20.5	68
Less than 4 years of English	2,650	12	20.2	70	112,496	8	18.8	56
No English course/grade information reported	1,126	5	22.2	79	93,330	7	20.2	64
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	1,348	6	26.0	84	91,985	6	24.8	74
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	1,812	8	23.3	65	113,879	8	22.3	57
Alg 1, Alg 2, Geom, & Trig	1,785	8	21.9	52	116,105	8	20.4	38
Alg 1, Alg 2, Geom, & Other Adv Math	3,376	15	21.7	50	204,909	14	20.4	38
Other comb of 4 or more years of Math	5,270	23	25.0	76	342,493	24	23.9	66
Alg 1, Alg 2, & Geom (Min. Core)	5,025	22	19.1	23	251,813	18	17.8	14
Other comb of 3 or 3.5 years of Math	1,150	5	21.8	48	70,951	5	20.8	41
Less than 3 years of Math	1,998	9	18.0	16	131,252	9	17.4	14
No Math course/grade information reported	1,186	5	22.1	53	98,554	7	21.1	44
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	551	2	22.6	59	42,546	3	22.7	61
Other comb of 4 or more years Social Science	10,598	46	23.2	66	604,055	42	21.9	56
US Hist, World Hist, & Am Gov (Min. Core)	1,460	6	22.0	58	86,500	6	20.8	48
Other comb of 3 or 3.5 years of Social Science	7,219	31	22.8	63	404,731	28	21.3	52
Less than 3 years of Social Science	1,949	8	21.6	54	185,561	13	20.4	45
No Soc Sci course/grade information reported	1,173	5	23.2	65	98,548	7	21.1	50
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	8,388	37	23.7	50	453,654	32	22.2	38
Bio, Chem, Phys	1,278	6	24.6	60	134,033	9	23.2	47
Gen Sci ¹ , Bio, Chem (Min. Core)	8,657	38	21.3	27	435,183	31	20.1	20
Other comb of 3 years of Natural Science	724	3	22.3	37	40,179	3	20.1	22
Less than 3 years of Natural Science	2,725	12	19.9	18	259,142	18	18.7	13
No Nat Sci course/grade information reported	1,178	5	22.2	38	99,750	7	20.6	29

¹Includes General, Physical and Earth Sciences.

Section IV

Career and Educational Aspirations

Table 4.1. Distribution of Planned Educational Majors for All Students and 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 Sciences & Technologies	584	3	20.5	91	7	19.3	456	2	20.8
Architecture & Environmental Design	398	2	21.7	18	1	17.9	361	2	21.9
Business & Management	2,144	9	21.8	114	9	18.9	1,945	10	22.0
Business & Office	167	1	20.2	29	2	18.4	128	1	20.6
Marketing & Distribution	157	1	21.0	4	0	20.3	137	1	21.2
Communications & Comm. Technologies	558	2	22.7	24	2	19.0	509	3	22.9
Community & Personal Services	510	2	20.1	77	6	19.2	405	2	20.3
Computer & Information Sciences	465	2	23.0	40	3	20.8	396	2	23.2
Cross-Disciplinary Studies	27	0	22.8	1	0	17.0	23	0	22.8
Education	1,023	4	21.4	22	2	17.1	944	5	21.6
Teacher Education	703	3	21.2	15	1	17.5	650	3	21.3
Engineering	927	4	24.5	33	2	18.9	858	5	24.8
Engineering-Related Technologies	486	2	23.7	20	1	20.0	445	2	24.0
Foreign Languages	117	1	24.1	1	0	19.0	104	1	24.2
Health Sciences & Allied Health Fields	3,673	16	22.1	266	20	18.9	3,265	17	22.4
Human, Family & Consumer Science	213	1	20.7	27	2	18.8	173	1	21.1
Letters	157	1	25.3	2	0	22.0	142	1	25.6
Mathematics	163	1	26.3	1	0	21.0	158	1	26.3
Philosophy, Religion & Theology	127	1	23.2	4	0	22.8	113	1	23.3
Sciences (Biological & Physical)	1,003	4	24.5	20	1	19.1	938	5	24.7
Social Sciences	1,190	5	23.3	17	1	19.0	1,119	6	23.4
Trade & Industrial	282	1	20.0	143	11	19.5	123	1	20.7
Visual & Performing Arts	1,151	5	22.4	74	6	19.8	1,009	5	22.7
Undecided	4,074	18	22.4	215	16	19.0	3,522	19	22.7
No Response	2,651	12	22.5	79	6	18.2	1,017	5	22.7

¹2-Year and 4-Year N's do not reflect "Missing" and "Other" institution types, therefore they may not add up to the N for *All Students*.

²Percent of students tested.

Table 4.2. Average ACT Composite Scores for Racial/Ethnic Groups by Post-Secondary Educational Aspirations

Educational Degree Aspirations	All Racial/Ethnic Groups Combined		African-Am./ Black		Am. Indian/ Alaska Native		Caucasian-Am./ White		Hispanic		Asian-Am./ Pacific Islander		Other/No Response	
	N	Average	N	Average	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	161	19.2	3	16.3	1	22.0	145	19.4	2	16.5	1	18.0	9	17.8
2-yr College Degree	1,176	19.0	20	15.9	3	20.0	1,067	19.1	19	17.6	15	18.9	52	19.0
Bachelors Degree	10,660	21.6	161	17.2	32	20.1	9,593	21.7	183	19.4	150	20.7	541	21.4
Graduate Study	3,418	24.0	65	19.8	7	20.9	3,016	24.1	65	22.6	58	22.7	207	24.4
Prof. Level Degree	4,862	24.1	121	19.1	17	23.0	4,044	24.3	126	21.2	172	24.8	382	24.2
Other	570	19.8	27	16.1	2	18.0	471	20.1	8	17.3	11	18.6	51	19.7
No Response	2,103	22.7	38	15.7	5	20.2	1,602	22.8	58	19.0	37	23.5	363	23.5

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 IOWA	Iowa	7,688	2,957	4,731	0	2	17	36	30	14	1
IOWA STATE UNIVERSITY	Iowa	7,544	3,148	4,396	0	2	17	37	29	14	2
UNIVERSITY OF NORTHERN IOWA	Iowa	6,533	1,752	4,781	0	3	21	40	26	9	1
KIRKWOOD COMMUNITY COLLEGE	Iowa	1,933	605	1,328	0	7	34	40	16	2	0
DRAKE UNIVERSITY	Iowa	1,385	314	1,071	0	2	11	34	30	21	2
CENTRAL COLLEGE	Iowa	1,328	350	978	0	3	19	37	27	12	1
WARTBURG COLLEGE	Iowa	1,315	271	1,044	0	3	17	38	29	12	1
SIMPSON COLLEGE	Iowa	1,242	265	977	0	4	20	36	28	11	0
DES MOINES AREA COMMUNITY COLL-ANKENY	Iowa	1,077	428	649	1	9	33	39	15	3	0
HAWKEYE COMMUNITY COLLEGE	Iowa	864	273	591	0	7	39	39	13	2	0
COE COLLEGE	Iowa	785	186	599	0	3	19	36	29	12	0
LUTHER COLLEGE	Iowa	705	153	552	0	1	12	31	34	19	2
BUENA VISTA UNIVERSITY	Iowa	632	150	482	0	4	26	35	25	9	0
IOWA CENTRAL COMMUNITY COLL-FORT DODGE	Iowa	632	233	399	1	11	36	36	14	2	0
GRAND VIEW COLLEGE	Iowa	625	152	473	1	10	27	40	15	6	0
MORNINGSIDE COLLEGE	Iowa	553	138	415	0	5	27	40	22	6	0
ST AMBROSE UNIVERSITY	Iowa	552	132	420	1	4	25	39	23	8	0
LORAS COLLEGE	Iowa	539	110	429	1	3	20	39	24	12	1
CREIGHTON UNIVERSITY	Nebraska	525	101	424	0	2	8	27	33	27	3
NORTHWEST MISSOURI ST UNIV	Missouri	511	152	359	0	5	23	44	23	6	0
IOWA WESTERN COMM C-COUNCIL BLFS	Iowa	494	216	278	1	10	37	35	13	4	0
NORTHWESTERN COLLEGE	Iowa	487	153	334	0	4	16	34	32	13	1
UNIVERSITY OF NEBRASKA AT LINCOLN	Nebraska	465	116	349	0	2	16	34	29	17	1
NORTH IOWA AREA COMMUNITY COLL	Iowa	441	176	265	0	9	35	32	20	3	0
UNIVERSITY OF SOUTH DAKOTA	South Dakota	408	114	294	0	5	22	42	23	9	0
SOUTH DAKOTA STATE UNIVERSITY	South Dakota	405	109	296	0	3	20	40	26	9	0
INDIAN HILLS COMMUNITY COLL-OTTUMWA	Iowa	396	166	230	3	9	35	35	15	4	0
UNIVERSITY OF MINNESOTA-TWIN CITIES	Minnesota	395	64	331	1	2	12	23	36	24	3
MOUNT MERCY COLLEGE	Iowa	384	83	301	0	4	28	42	20	6	0
UNIVERSITY OF NEBRASKA AT OMAHA	Nebraska	336	82	254	0	6	25	39	21	7	1
All Other Institutions		19,525	4,887	14,638	0	5	20	30	25	16	3
Total		60,704	18,036	42,668	0	4	20	35	26	13	2

Section V

Optional Writing Test Results

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
All Students	5,373	770,529	24.3	21.4	7.6	7.3	23.3	20.9
African Am./Black	122	86,049	18.6	16.6	6.8	6.5	18.4	16.6
Am. Indian/Alaska Native	21	5,148	21.0	18.9	6.9	6.7	20.2	18.5
Caucasian Am./White	4,410	464,177	24.5	22.5	7.7	7.4	23.5	21.8
Hispanic	120	71,060	22.2	18.3	7.3	7.1	21.4	18.5
Asian Am./Pacific Islander	182	37,359	23.8	23.1	8.0	7.9	23.3	22.6
Other/No Response	518	106,736	25.1	22.2	7.7	7.5	23.9	21.7
Males	2,160	327,613	24.1	20.9	7.4	7.0	23.0	20.2
Females	3,105	421,968	24.5	21.7	7.8	7.6	23.6	21.3
Missing	108	20,948	24.3	23.9	7.7	7.9	23.4	23.2

