

# ACT High School Profile Report

The Graduating Class of 2008  
New York





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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](http://www.act.org)

## How to Improve Scores and Increase College Readiness

36% 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.** 44,311 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. 62% of the students in the cohort reported taking courses that would be considered 'Core or More' (Table 1.4).

**MAKING SURE STUDENTS ARE TAKING THE RIGHT KINDS OF COURSES.** Table 3.2 reports 10% of the cohort took less than three years of math courses. Of these students, 39% were college ready. 4% of the cohort reported taking the minimum core (Algebra I, Algebra II, and Geometry). 23% of these students were college ready. In comparison, 68% 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 8% of the cohort took less than three years of natural science courses. 19% of these students were college ready. In comparison, 46% 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 27% of the cohort fall into the lowest three Mathematics score ranges. To increase these students' achievement, identify the standards they should focus on next by accessing ACT's College Readiness Standards at [www.act.org/standard](http://www.act.org/standard).

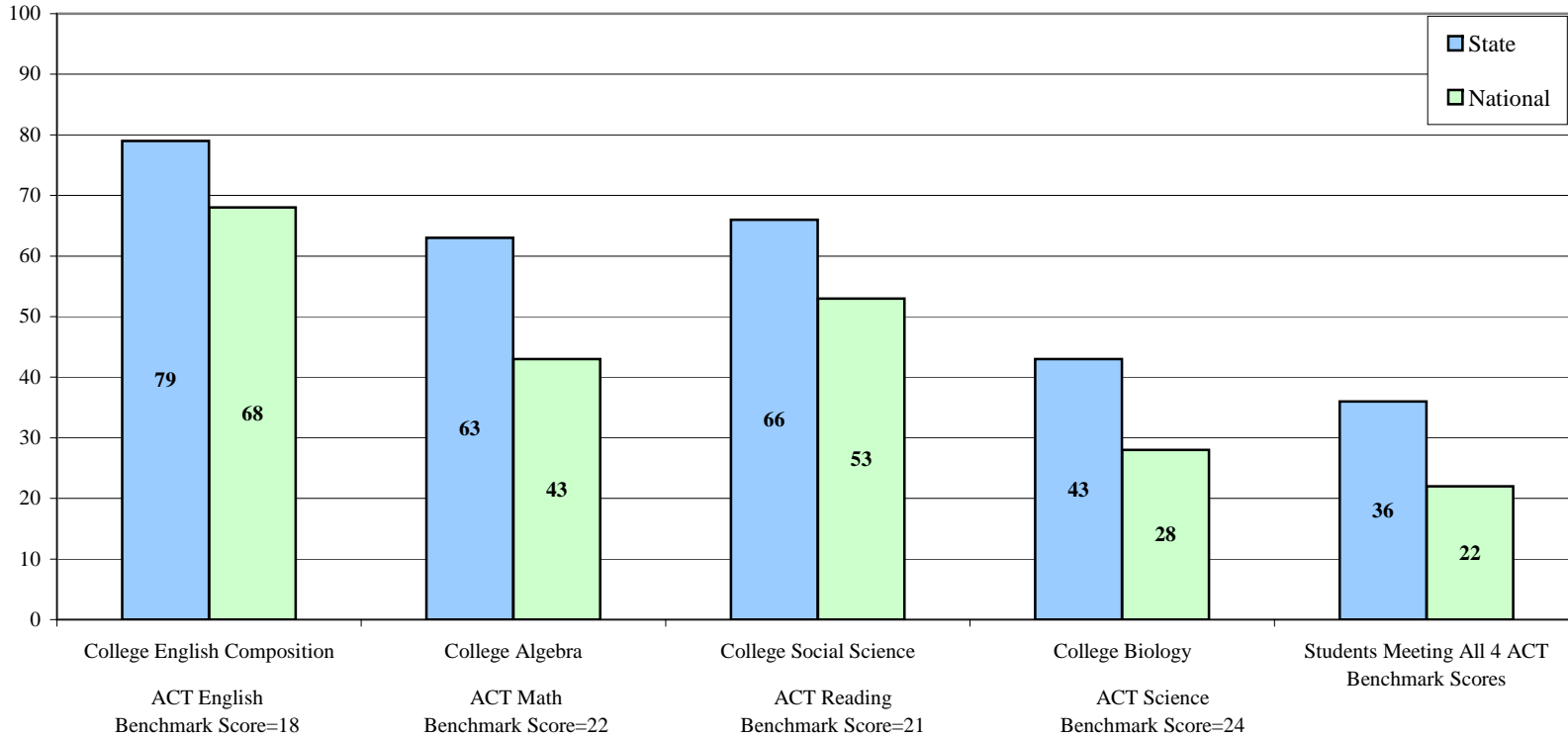
**PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS.** Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether among students with similar aspirations, academic performance is consistent across racial/ethnic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

For more information on interpreting data in this report, or to learn how ACT can help your students improve their readiness for college and the workplace, contact your regional office at 518-869-7378.

# 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	27,302	1,171,460	75	68	54	40	63	52	39	26	31	21
2005	29,279	1,186,251	74	68	55	41	64	51	38	26	31	21
2006	29,967	1,206,455	77	69	59	42	63	53	37	27	31	21
2007	37,863	1,300,599	79	69	61	43	65	53	42	28	35	23
<b>2008</b>	<b>44,311</b>	<b>1,421,941</b>	<b>79</b>	<b>68</b>	<b>63</b>	<b>43</b>	<b>66</b>	<b>53</b>	<b>43</b>	<b>28</b>	<b>36</b>	<b>22</b>

**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	27,302	1,171,460	21.3	20.4	22.4	20.7	22.8	21.3	22.3	20.9	22.3	20.9
2005	29,279	1,186,251	21.3	20.4	22.5	20.7	23.0	21.3	22.3	20.9	22.4	20.9
2006	29,967	1,206,455	21.8	20.6	22.9	20.8	22.9	21.4	22.3	20.9	22.6	21.1
2007	37,863	1,300,599	22.0	20.7	23.1	21.0	23.1	21.5	22.7	21.0	22.9	21.2
<b>2008</b>	<b>44,311</b>	<b>1,421,941</b>	<b>22.3</b>	<b>20.6</b>	<b>23.5</b>	<b>21.0</b>	<b>23.3</b>	<b>21.4</b>	<b>22.8</b>	<b>20.8</b>	<b>23.1</b>	<b>21.1</b>

**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
<b>2008</b>	<b>1,421,941</b>	<b>20.6</b>	<b>21.0</b>	<b>21.4</b>	<b>20.8</b>	<b>21.1</b>

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

Grad Year	Number of Students Tested		Percent <sup>1</sup>		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	14,800	8,272	54	30	22.4	19.7	23.4	20.7	23.8	21.3	23.2	21.0	23.3	20.8
2005	15,504	8,956	53	31	22.3	19.8	23.4	20.9	24.0	21.6	23.1	21.2	23.3	21.0
2006	14,869	9,420	50	31	22.7	20.3	23.9	21.4	23.8	21.5	23.0	21.2	23.5	21.2
2007	17,944	12,175	47	32	22.9	20.7	24.0	21.8	24.0	22.0	23.6	21.7	23.8	21.7
<b>2008</b>	<b>27,558</b>	<b>10,701</b>	<b>62</b>	<b>24</b>	<b>23.0</b>	<b>20.8</b>	<b>24.2</b>	<b>22.0</b>	<b>23.8</b>	<b>22.0</b>	<b>23.3</b>	<b>21.6</b>	<b>23.7</b>	<b>21.7</b>

<sup>1</sup>Percent 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
<b>All Students</b>	<b>27,302</b>	<b>100</b>	<b>22.3</b>	<b>29,279</b>	<b>100</b>	<b>22.4</b>	<b>29,967</b>	<b>100</b>	<b>22.6</b>	<b>37,863</b>	<b>100</b>	<b>22.9</b>	<b>44,311</b>	<b>100</b>	<b>23.1</b>
African American/Black	1,913	7	18.3	2,079	7	18.1	1,942	6	18.3	2,440	6	18.4	2,694	6	18.6
American Indian/Alaska Native	90	0	20.8	113	0	20.7	104	0	20.4	108	0	21.7	117	0	21.6
Caucasian American/White	18,922	69	22.8	20,043	68	22.9	18,952	63	22.9	21,664	57	23.3	28,422	64	23.4
Hispanic	1,257	5	19.7	1,385	5	19.9	1,278	4	20.3	1,860	5	20.2	2,494	6	20.5
Asian American/Pacific Islander	1,012	4	23.7	1,061	4	24.0	1,156	4	24.5	1,452	4	24.7	2,137	5	24.8
Other/No Response	4,108	15	22.6	4,598	16	22.8	6,535	22	23.0	10,339	27	23.4	8,447	19	23.9

# Section II

# Academic Achievement

**Table 2.1. ACT Score Distributions, Cumulative Percentages (CP<sup>1</sup>), and Score Averages for All Students**

ACT Scale Score	English		Mathematics		Reading		Science		Composite		ACT Scale Score
	N	CP <sup>1</sup>	N	CP <sup>1</sup>	N	CP <sup>1</sup>	N	CP <sup>1</sup>	N	CP <sup>1</sup>	
36	56	100	252	100	441	100	199	100	16	100	36
35	662	100	555	99	626	99	361	100	158	100	35
34	893	98	659	98	671	98	461	99	375	100	34
33	724	96	1,175	97	1,204	96	559	98	573	99	33
32	737	95	881	94	1,325	93	433	96	863	97	32
31	956	93	850	92	1,545	90	685	95	1,072	96	31
30	1,397	91	1,565	90	2,060	87	1,045	94	1,498	93	30
29	1,639	88	1,998	87	1,771	82	1,025	92	1,854	90	29
28	1,452	84	2,491	82	2,407	78	1,480	89	2,142	86	28
27	1,720	81	2,769	76	1,940	73	1,967	86	2,497	81	27
26	2,239	77	2,944	70	1,903	68	2,766	81	2,863	75	26
25	2,648	72	3,714	64	2,102	64	4,482	75	3,250	69	25
24	2,771	66	3,007	55	2,638	59	3,674	65	3,375	61	24
23	2,777	60	2,877	48	3,466	53	3,714	57	3,426	54	23
22	3,317	53	2,187	42	2,129	46	4,077	48	3,458	46	22
21	3,813	46	2,543	37	2,811	41	3,288	39	3,298	38	21
20	3,217	37	1,943	31	3,053	34	4,100	32	2,897	31	20
19	2,153	30	2,308	27	2,291	28	3,159	23	2,643	24	19
18	1,976	25	2,628	22	1,628	22	1,775	15	2,278	18	18
17	2,003	21	2,377	16	1,770	19	1,396	11	1,840	13	17
16	1,518	16	2,388	10	1,879	15	932	8	1,413	9	16
15	1,634	13	1,353	5	1,400	10	733	6	988	6	15
14	1,044	9	558	2	1,275	7	576	5	692	3	14
13	836	7	175	1	849	4	457	3	459	2	13
12	680	5	79	1	480	3	424	2	227	1	12
11	489	3	18	1	367	1	234	1	100	1	11
10	448	2	10	1	160	1	163	1	37	1	10
9	235	1	2	1	60	1	81	1	14	1	9
8	173	1	2	1	17	1	26	1	4	1	8
7	68	1	0	1	24	1	16	1	0	1	7
6	17	1	2	1	12	1	9	1	1	1	6
5	13	1	0	1	4	1	6	1	0	1	5
4	4	1	1	1	0	1	2	1	0	1	4
3	1	1	0	1	2	1	3	1	0	1	3
2	1	1	0	1	1	1	1	1	0	1	2
1	0	1	0	1	0	1	2	1	0	1	1
Avg (SD)	22.3 (5.8)		23.5 (5.3)		23.3 (6.0)		22.8 (4.8)		23.1 (4.8)		Avg (SD)

<sup>1</sup>Note: 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 (CP<sup>1</sup>), 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 <sup>1</sup>	N	CP <sup>1</sup>	N	CP <sup>1</sup>	N	CP <sup>1</sup>	N	CP <sup>1</sup>	N	CP <sup>1</sup>	N	CP <sup>1</sup>	
18	1,988	100	345	100	1,704	100	1,800	100	4,302	100	618	100	796	100	18
17	2,419	96	1,511	99	2,620	96	3,524	96	3,756	90	1,233	99	197	98	17
16	2,651	90	2,831	96	2,911	90	4,727	88	3,845	82	1,692	96	3,352	98	16
15	2,513	84	4,003	89	3,888	84	4,306	77	2,769	73	2,559	92	3,192	90	15
14	2,938	78	3,028	80	2,809	75	4,205	68	4,416	67	5,702	86	6,480	83	14
13	4,105	72	4,793	74	4,292	69	2,820	58	4,860	57	5,363	73	4,710	68	13
12	3,630	63	5,830	63	3,735	59	4,187	52	3,921	46	4,608	61	6,270	58	12
11	4,592	54	5,757	50	4,538	50	4,773	42	3,270	37	6,568	51	4,212	44	11
10	4,990	44	5,535	37	4,424	40	3,304	32	4,629	30	6,790	36	6,449	34	10
9	3,971	33	3,583	24	3,930	30	2,852	24	2,095	19	4,122	21	2,935	20	9
8	3,209	24	2,792	16	4,411	21	2,601	18	3,415	15	2,402	11	2,173	13	8
7	2,569	16	1,962	10	1,931	11	1,809	12	2,119	7	896	6	1,546	8	7
6	2,096	11	1,074	5	1,564	7	1,724	8	674	2	666	4	773	5	6
5	1,321	6	540	3	747	4	1,029	4	147	1	686	2	500	3	5
4	848	3	506	2	434	2	478	1	62	1	172	1	282	2	4
3	346	1	171	1	246	1	104	1	24	1	156	1	301	1	3
2	113	1	42	1	82	1	64	1	6	1	17	1	76	1	2
1	12	1	8	1	45	1	4	1	1	1	61	1	67	1	1
Avg (SD)	11.3 (3.7)		11.5 (3.0)		11.6 (3.5)		12.2 (3.6)		12.7 (3.4)		11.6 (2.8)		11.8 (2.9)		Avg (SD)

<sup>1</sup>Note: 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)	26	27	28	25	26
Q2 (50th Percentile)	22	24	23	23	23
Q1 (25th Percentile)	18	19	19	20	20

**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	<b>All Students</b>	<b>44,311</b>	<b>62</b>	<b>23.7</b>	<b>21.7</b>
	African Am./Black	2,694	55	19.6	17.4
	Am. Indian/Alaska Native	117	53	22.9	20.5
	Caucasian Am./White	28,422	65	23.9	22.2
	Hispanic	2,494	62	21.2	19.2
	Asian Am./Pacific Islander	2,137	73	25.0	24.3
	Other/No Response	8,447	53	24.4	22.6
National	<b>All Students</b>	<b>1,421,941</b>	<b>61</b>	<b>22.0</b>	<b>19.5</b>
	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	<b>All Students</b>	22.3	23.5	23.3	22.8	23.1
	African Am./Black	17.7	18.9	18.8	18.4	18.6
	Am. Indian/Alaska Native	20.5	21.8	22.1	21.7	21.6
	Caucasian Am./White	22.6	23.7	23.6	23.2	23.4
	Hispanic	19.7	20.8	20.8	20.2	20.5
	Asian Am./Pacific Islander	23.8	26.8	24.3	23.9	24.8
	Other/No Response	23.3	24.4	24.1	23.3	23.9
National	<b>All Students</b>	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	2,335	5	2,641	6	2,942	7	1,580	4
	28 to 32	6,181	14	7,785	18	9,108	21	4,668	11
	24 to 27	9,378	21	12,434	28	8,583	19	12,889	29
	20 to 23	13,124	30	9,550	22	11,459	26	15,179	34
	16 to 19	7,650	17	9,701	22	7,568	17	7,262	16
	13 to 15	3,514	8	2,086	5	3,524	8	1,766	4
	01 to 12	2,129	5	114	0	1,127	3	967	2
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	17,678	40	21.7	24.3	23.1	23.3	23.2
	Females	24,479	55	22.6	22.9	23.3	22.3	22.9
	Missing	2,154	5	23.4	24.7	24.2	23.7	24.1
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	68	64	47	40
	Females	81	59	66	39	33
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 <sup>2</sup>	N	English		Mathematics		Reading		Science		Composite <sup>1</sup>	
			CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB %	Avg
State	Core	27,558	84	23.0	68	24.2	70	23.8	47	23.3	40	23.7
	Non-Core	10,701	69	20.8	50	22.0	56	22.0	34	21.6	28	21.7
	Missing	6,052	76	21.9	62	23.5	62	22.9	41	22.5	35	22.8
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

<sup>1</sup>% under Composite heading reflects the percent of students who meet all four benchmarks

<sup>2</sup>"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 <sup>1</sup>	English			Mathematics			Reading			Science		
		N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg
State	Core	36,306	80	22.4	34,354	66	23.9	33,004	66	23.3	35,587	46	23.1
	Non-Core	3,484	77	21.7	4,256	39	20.7	6,288	63	22.9	3,555	19	19.5
	Missing	4,521	78	22.2	5,701	62	23.4	5,019	64	23.1	5,169	42	22.7
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

<sup>1</sup>"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

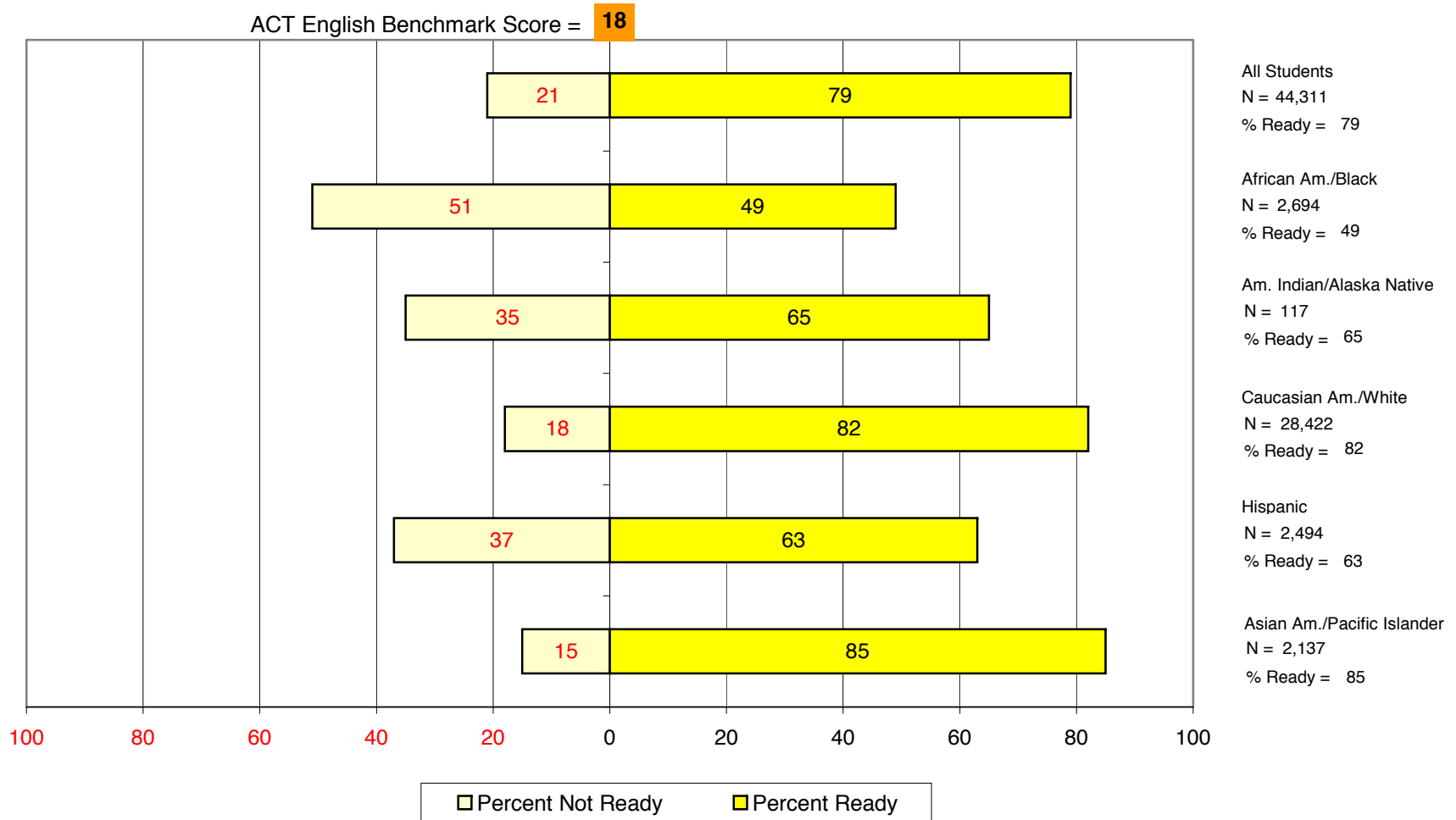


Figure 3.2. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

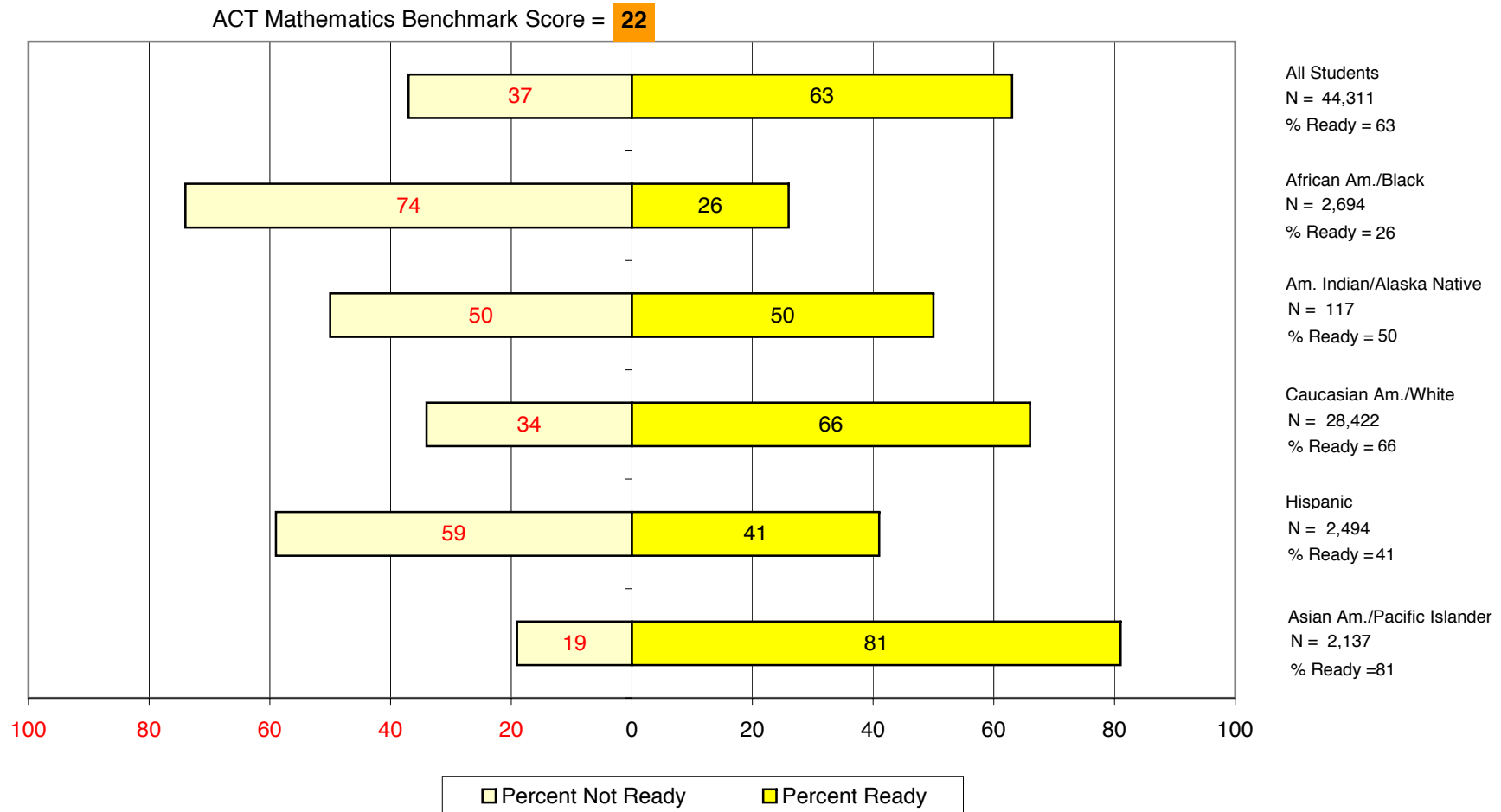


Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: **READING**

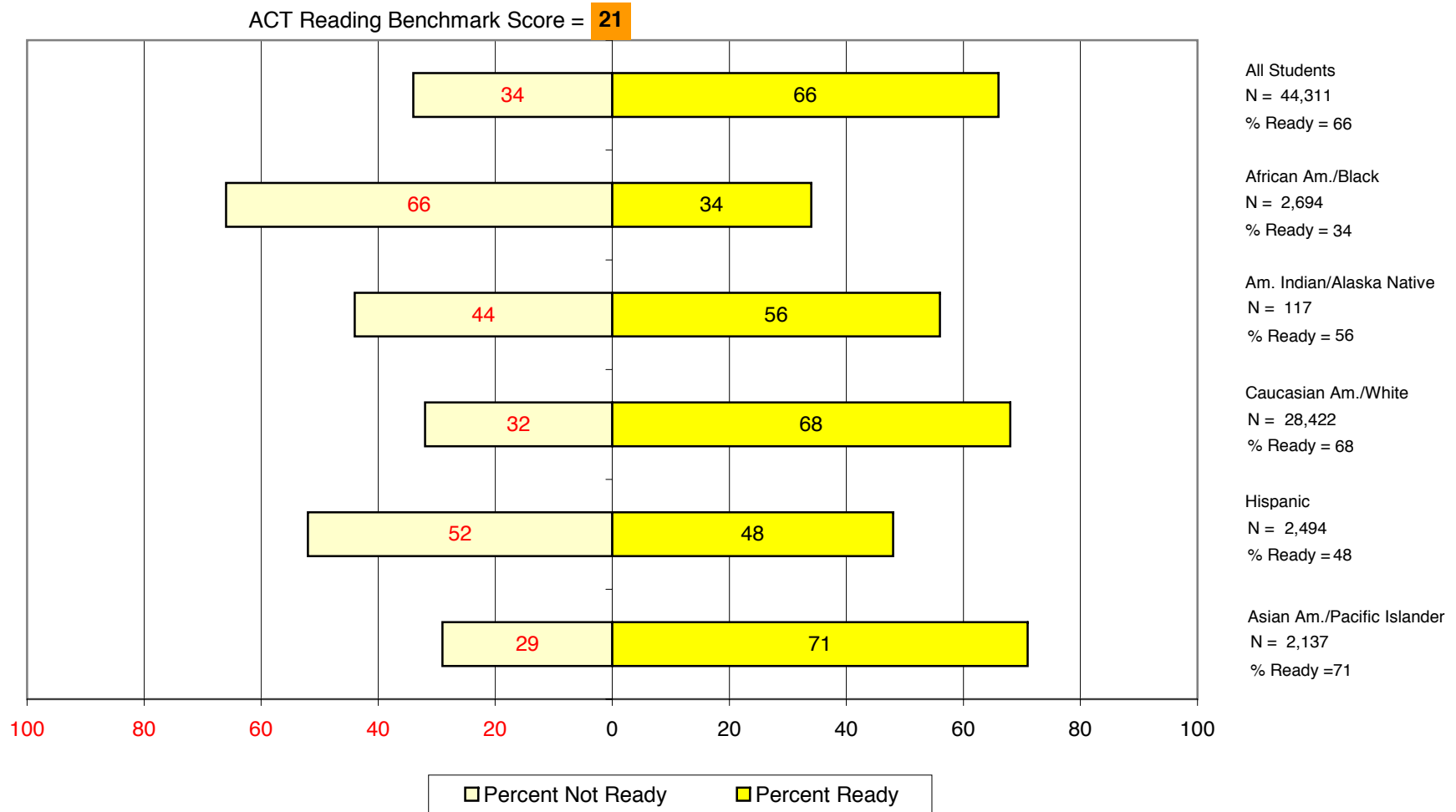


Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

ACT Science Benchmark Score = 24

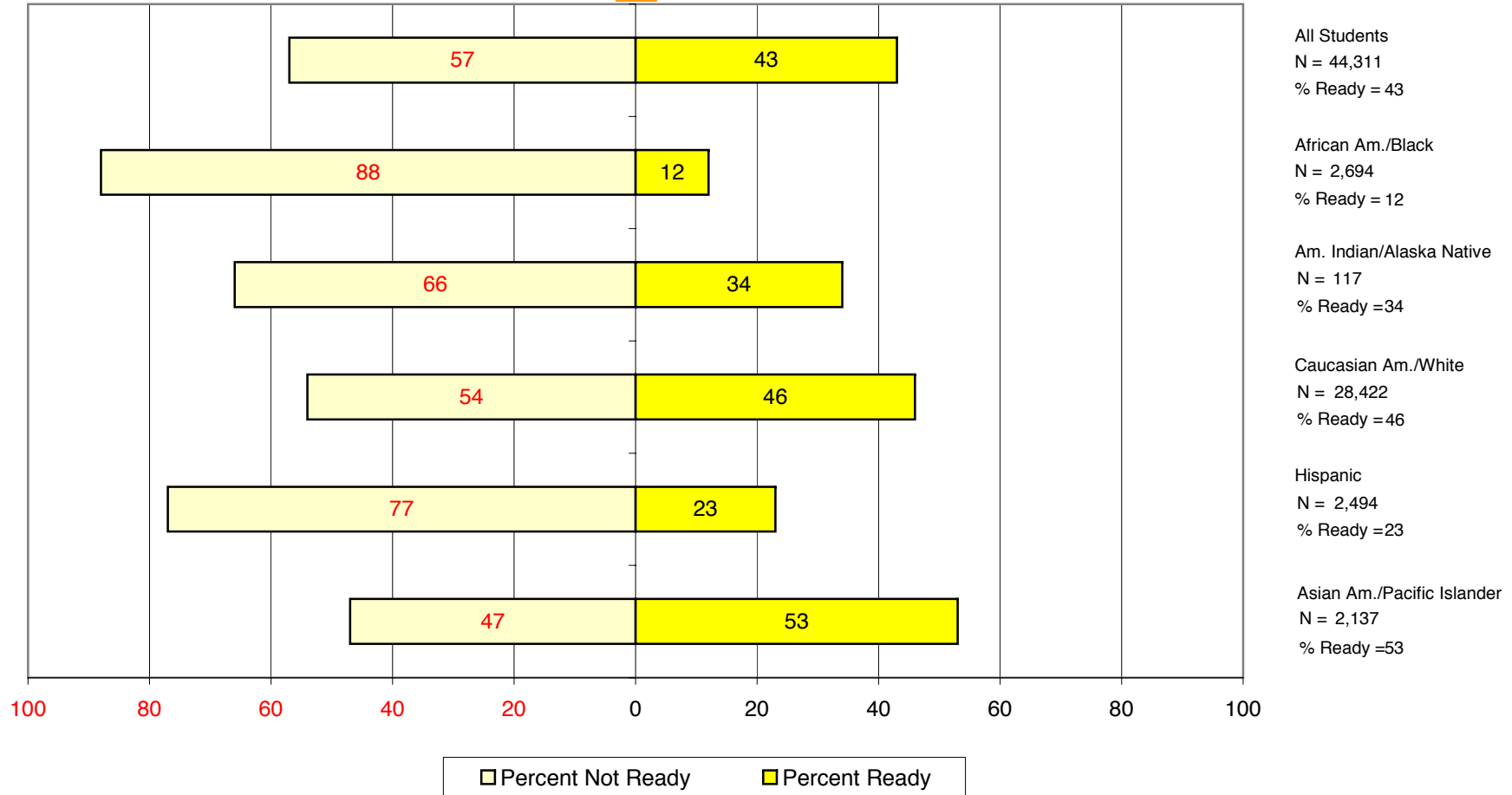
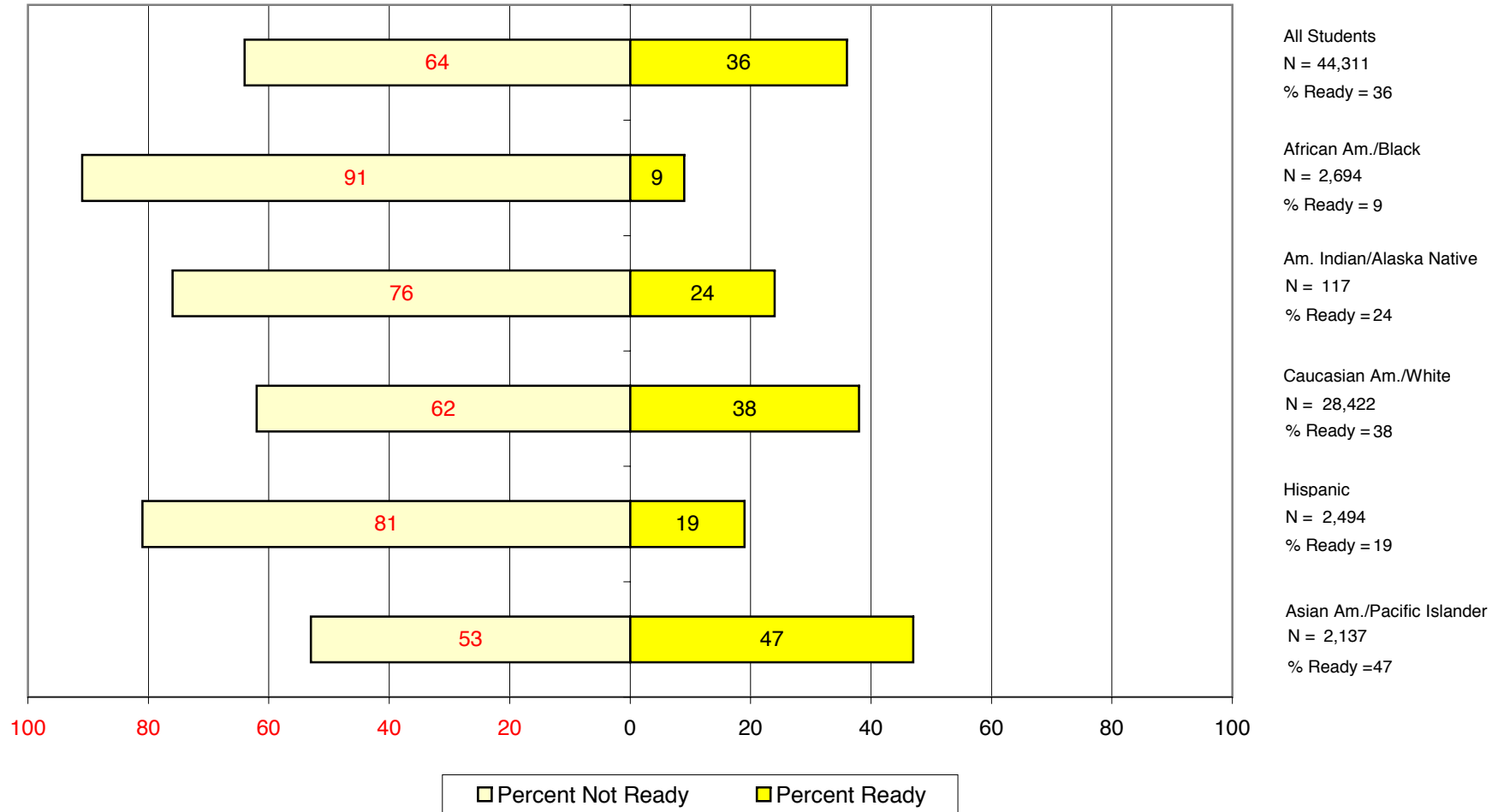


Figure 3.5. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR



**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 <sup>1</sup>	N	Percent	ACT English	Course Value Added <sup>1</sup>	N	Percent	ACT English	Course Value Added <sup>1</sup>
<b>ENGLISH COURSE PATTERN</b>												
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	9,876	22	23.1	1.4	3,407	19	22.3	1.0	6,164	25	23.4	1.4
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	26,430	60	22.1	0.4	10,810	61	21.6	0.3	14,808	60	22.4	0.4
Less than 4 years of English	3,505	8	21.7	-	1,544	9	21.3	-	1,662	7	22.0	-
No English course/grade information reported	4,500	10	22.2	-	1,917	11	21.6	-	1,845	8	22.5	-
<b>MATHEMATICS COURSE PATTERN</b>												
Alg 1, Alg 2, Geom, Trig, & Calc	5,652	13	25.9	5.2	2,181	12	26.7	5.6	3,242	13	25.4	5.3
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	5,352	12	23.0	2.3	1,797	10	23.8	2.7	3,391	14	22.5	2.4
Alg 1, Alg 2, Geom, & Trig	6,083	14	21.4	0.7	2,178	12	22.0	0.9	3,694	15	20.9	0.8
Alg 1, Alg 2, Geom, & Other Adv Math	1,155	3	21.4	0.7	431	2	21.9	0.8	701	3	21.1	1.0
Other comb of 4 or more years of Math	12,601	28	25.6	4.9	5,545	31	26.3	5.2	6,650	27	25.0	4.9
Alg 1, Alg 2, & Geom (Min. Core)	1,658	4	18.9	-1.8	616	3	19.4	-1.7	998	4	18.7	-1.4
Other comb of 3 or 3.5 years of Math	1,853	4	23.2	2.5	774	4	23.8	2.7	1,017	4	22.7	2.6
Less than 3 years of Math	4,530	10	20.7	-	1,830	10	21.1	-	2,501	10	20.1	-
No Math course/grade information reported	5,427	12	23.6	-	2,326	13	24.1	-	2,285	9	22.6	-
<b>SOCIAL SCIENCE COURSE PATTERN</b>												
US Hist, World Hist, Am Gov, & Other Hist	1,119	3	24.1	1.2	557	3	23.5	0.7	531	2	24.8	1.8
Other comb of 4 or more years Social Science	19,926	45	23.3	0.4	7,415	42	23.2	0.4	11,935	49	23.3	0.3
US Hist, World Hist, & Am Gov (Min. Core)	1,054	2	23.7	0.8	507	3	23.0	0.2	521	2	24.3	1.3
Other comb of 3 or 3.5 years of Social Science	10,905	25	23.3	0.4	4,283	24	23.1	0.3	6,258	26	23.3	0.3
Less than 3 years of Social Science	6,342	14	22.9	-	2,778	16	22.8	-	3,197	13	23.0	-
No Soc Sci course/grade information reported	4,965	11	23.2	-	2,138	12	22.9	-	2,037	8	23.1	-
<b>NATURAL SCIENCE COURSE PATTERN</b>												
Gen Sci <sup>2</sup> , Bio, Chem, & Phys	21,155	48	24.1	4.5	9,113	52	24.6	4.8	11,318	46	23.6	4.4
Bio, Chem, Phys	2,394	5	23.7	4.1	888	5	24.3	4.5	1,445	6	23.3	4.1
Gen Sci <sup>2</sup> , Bio, Chem (Min. Core)	11,262	25	21.4	1.8	3,664	21	21.4	1.6	7,213	29	21.3	2.1
Other comb of 3 years of Natural Science	776	2	20.9	1.3	357	2	21.4	1.6	399	2	20.4	1.2
Less than 3 years of Natural Science	3,703	8	19.6	-	1,510	9	19.8	-	2,036	8	19.2	-
No Nat Sci course/grade information reported	5,021	11	22.7	-	2,146	12	23.0	-	2,068	8	22.1	-

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

<sup>2</sup>Includes 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
<b>ENGLISH COURSE PATTERN</b>								
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	9,876	22	23.1	83	266,394	19	21.8	76
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	26,430	60	22.1	79	949,721	67	20.5	68
Less than 4 years of English	3,505	8	21.7	77	112,496	8	18.8	56
No English course/grade information reported	4,500	10	22.2	78	93,330	7	20.2	64
<b>MATHEMATICS COURSE PATTERN</b>								
Alg 1, Alg 2, Geom, Trig, & Calc	5,652	13	25.9	82	91,985	6	24.8	74
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	5,352	12	23.0	63	113,879	8	22.3	57
Alg 1, Alg 2, Geom, & Trig	6,083	14	21.4	47	116,105	8	20.4	38
Alg 1, Alg 2, Geom, & Other Adv Math	1,155	3	21.4	47	204,909	14	20.4	38
Other comb of 4 or more years of Math	12,601	28	25.6	78	342,493	24	23.9	66
Alg 1, Alg 2, & Geom (Min. Core)	1,658	4	18.9	23	251,813	18	17.8	14
Other comb of 3 or 3.5 years of Math	1,853	4	23.2	62	70,951	5	20.8	41
Less than 3 years of Math	4,530	10	20.7	39	131,252	9	17.4	14
No Math course/grade information reported	5,427	12	23.6	63	98,554	7	21.1	44
<b>SOCIAL SCIENCE COURSE PATTERN</b>								
US Hist, World Hist, Am Gov, & Other Hist	1,119	3	24.1	71	42,546	3	22.7	61
Other comb of 4 or more years Social Science	19,926	45	23.3	66	604,055	42	21.9	56
US Hist, World Hist, & Am Gov (Min. Core)	1,054	2	23.7	67	86,500	6	20.8	48
Other comb of 3 or 3.5 years of Social Science	10,905	25	23.3	66	404,731	28	21.3	52
Less than 3 years of Social Science	6,342	14	22.9	63	185,561	13	20.4	45
No Soc Sci course/grade information reported	4,965	11	23.2	64	98,548	7	21.1	50
<b>NATURAL SCIENCE COURSE PATTERN</b>								
Gen Sci <sup>1</sup> , Bio, Chem, & Phys	21,155	48	24.1	55	453,654	32	22.2	38
Bio, Chem, Phys	2,394	5	23.7	52	134,033	9	23.2	47
Gen Sci <sup>1</sup> , Bio, Chem (Min. Core)	11,262	25	21.4	29	435,183	31	20.1	20
Other comb of 3 years of Natural Science	776	2	20.9	26	40,179	3	20.1	22
Less than 3 years of Natural Science	3,703	8	19.6	19	259,142	18	18.7	13
No Nat Sci course/grade information reported	5,021	11	22.7	43	99,750	7	20.6	29

<sup>1</sup>Includes 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 <sup>1</sup>	Percent <sup>2</sup>	Avg ACT Comp	N	Percent <sup>2</sup>	Avg ACT Comp	N	Percent <sup>2</sup>	Avg ACT Comp
Agriculture Sciences & Technologies	235	1	20.9	29	5	18.3	183	1	21.2
Architecture & Environmental Design	588	1	22.6	4	1	15.8	516	2	22.6
Business & Management	4,188	9	22.4	32	6	17.2	3,688	11	22.4
Business & Office	168	0	21.3	9	2	18.9	137	0	21.2
Marketing & Distribution	388	1	21.3	4	1	20.3	333	1	21.2
Communications & Comm. Technologies	1,410	3	22.6	11	2	18.6	1,255	4	22.7
Community & Personal Services	572	1	19.3	40	8	17.2	489	1	19.6
Computer & Information Sciences	554	1	23.0	16	3	18.6	486	1	23.1
Cross-Disciplinary Studies	131	0	24.2	0	0	.	115	0	24.0
Education	2,154	5	21.5	8	2	16.8	1,915	6	21.5
Teacher Education	1,360	3	21.2	2	0	16.0	1,240	4	21.2
Engineering	1,325	3	25.4	8	2	16.9	1,214	4	25.4
Engineering-Related Technologies	807	2	23.6	15	3	20.1	714	2	23.5
Foreign Languages	300	1	24.7	0	0	.	260	1	24.8
Health Sciences & Allied Health Fields	5,047	11	22.7	99	19	18.1	4,529	13	22.8
Human, Family & Consumer Science	253	1	20.4	13	2	18.6	208	1	20.5
Letters	278	1	25.8	3	1	19.0	257	1	25.8
Mathematics	331	1	25.3	3	1	22.7	295	1	25.4
Philosophy, Religion & Theology	132	0	23.7	2	0	22.5	115	0	23.9
Sciences (Biological & Physical)	3,059	7	24.9	16	3	18.9	2,766	8	24.9
Social Sciences	2,979	7	23.5	12	2	16.8	2,708	8	23.6
Trade & Industrial	109	0	19.0	35	7	18.4	63	0	19.3
Visual & Performing Arts	1,937	4	22.5	36	7	18.2	1,701	5	22.6
Undecided	7,213	16	23.4	88	17	17.9	5,899	17	23.4
No Response	8,793	20	23.4	44	8	18.5	3,015	9	23.9

<sup>1</sup>2-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*.

<sup>2</sup>Percent 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	50	18.8	2	13.5	2	18.5	41	18.7	1	20.0	0	.	4	22.0
2-yr College Degree	479	18.0	20	14.6	6	18.8	368	18.5	27	15.1	3	16.7	55	18.0
Bachelors Degree	10,398	21.2	582	16.7	17	19.7	7,677	21.6	576	19.0	270	21.4	1,276	21.4
Graduate Study	10,999	23.6	521	19.3	25	23.7	8,039	23.9	478	21.5	397	24.9	1,539	24.1
Prof. Level Degree	12,704	24.3	1,070	20.0	40	23.2	7,240	24.9	962	21.5	1,061	25.6	2,331	24.7
Other	708	20.2	60	15.9	1	17.0	437	20.7	39	18.2	29	20.9	142	21.0
No Response	8,973	23.5	439	17.5	26	19.6	4,620	23.7	411	19.6	377	25.4	3,100	24.4

**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 AT BUFFALO/SUNY	New York	1,869	578	1,291	1	4	16	32	31	14	2
BINGHAMTON UNIVERSITY/SUNY	New York	1,574	508	1,066	0	3	13	25	35	22	2
STONY BROOK UNIVERSITY/SUNY	New York	1,365	407	958	1	7	20	33	27	11	1
STATE UNIV OF NY COLL AT GENESEO	New York	1,224	347	877	0	1	7	24	42	24	2
UNIVERSITY AT ALBANY/SUNY	New York	1,222	308	914	1	4	21	35	28	10	1
SYRACUSE UNIVERSITY	New York	1,143	309	834	1	4	17	27	32	18	1
CORNELL UNIVERSITY	New York	1,085	378	707	0	2	5	17	31	36	8
STATE UNIV OF NY COLL AT BROCKPORT	New York	1,072	303	769	0	4	25	41	22	7	0
STATE UNIV OF NY COLL AT CORTLAND	New York	1,068	296	772	0	2	28	44	21	4	0
STATE UNIV OF NY COLL AT BUFFALO	New York	1,042	260	782	1	5	24	34	24	9	1
NEW YORK UNIVERSITY	New York	973	320	653	1	4	14	27	30	22	3
STATE UNIV OF NY COLL AT OSWEGO	New York	931	259	672	1	3	27	42	21	6	0
STATE UNIV OF NY COLL AT ONEONTA	New York	856	202	654	0	4	25	42	25	4	0
ROCHESTER INST OF TECHNOLOGY	New York	840	271	569	0	2	12	26	33	23	4
CITY UNIVERSITY OF NEW YORK	New York	782	385	397	6	22	32	21	12	6	1
STATE UNIV OF NY COLL AT FREDONIA	New York	757	186	571	0	4	20	40	27	10	0
HOFSTRA UNIVERSITY	New York	705	176	529	1	7	22	38	26	6	1
ITHACA COLLEGE	New York	697	166	531	1	1	13	31	35	17	1
STATE UNIV OF NEW YORK AT NEW PALTZ	New York	665	176	489	1	5	20	38	28	8	0
FORDHAM UNIVERSITY	New York	625	161	464	1	4	15	32	32	15	1
ST JOHN FISHER COLLEGE	New York	600	156	444	0	4	21	37	30	7	1
BOSTON UNIVERSITY	Massachusetts	586	175	411	0	1	7	19	38	31	3
PENN STATE-UNIVERSITY PARK CAMPUS	Pennsylvania	578	148	430	1	5	14	27	32	18	3
NCAA ELIGIBILITY CENTER	Indiana	576	342	234	2	9	21	30	25	11	2
UNIVERSITY OF ROCHESTER	New York	563	146	417	0	2	8	21	32	31	6
NIAGARA UNIVERSITY	New York	557	152	405	1	3	23	34	29	9	1
CANISIUS COLLEGE	New York	556	182	374	0	1	18	33	32	13	1
STATE UNIV OF NY COLL AT PLATTSBURGH	New York	498	116	382	1	5	29	43	18	4	0
LE MOYNE COLLEGE	New York	483	149	334	1	4	23	36	26	10	0
NORTHEASTERN UNIVERSITY	Massachusetts	474	132	342	0	1	5	23	39	28	4
All Other Institutions		36,274	10,088	26,186	1	6	21	29	25	15	3
<b>Total</b>		<b>62,240</b>	<b>17,782</b>	<b>44,458</b>	<b>1</b>	<b>5</b>	<b>20</b>	<b>30</b>	<b>27</b>	<b>15</b>	<b>2</b>

# 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
<b>All Students</b>	<b>30,406</b>	<b>770,529</b>	<b>23.3</b>	<b>21.4</b>	<b>7.9</b>	<b>7.3</b>	<b>22.9</b>	<b>20.9</b>
African Am./Black	1,773	86,049	18.6	16.6	7.4	6.5	18.9	16.6
Am. Indian/Alaska Native	60	5,148	22.6	18.9	7.6	6.7	22.1	18.5
Caucasian Am./White	18,679	464,177	23.5	22.5	7.9	7.4	23.1	21.8
Hispanic	1,808	71,060	20.5	18.3	7.7	7.1	20.6	18.5
Asian Am./Pacific Islander	1,794	37,359	24.4	23.1	8.2	7.9	23.9	22.6
Other/No Response	6,292	106,736	24.3	22.2	8.1	7.5	23.7	21.7
Males	11,415	327,613	22.8	20.9	7.7	7.0	22.4	20.2
Females	17,414	421,968	23.5	21.7	8.1	7.6	23.1	21.3
Missing	1,577	20,948	24.3	23.9	8.1	7.9	23.7	23.2



