

# ACT High School Profile Report

The Graduating Class of 2008  
Arizona





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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

25% 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.** 11,602 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. 68% 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, 33% were college ready. 11% of the cohort reported taking the minimum core (Algebra I, Algebra II, and Geometry). 20% of these students were college ready. In comparison, 58% 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 17% of the cohort took less than three years of natural science courses. 22% of these students were college ready. In comparison, 32% 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](http://www.act.org/standard).

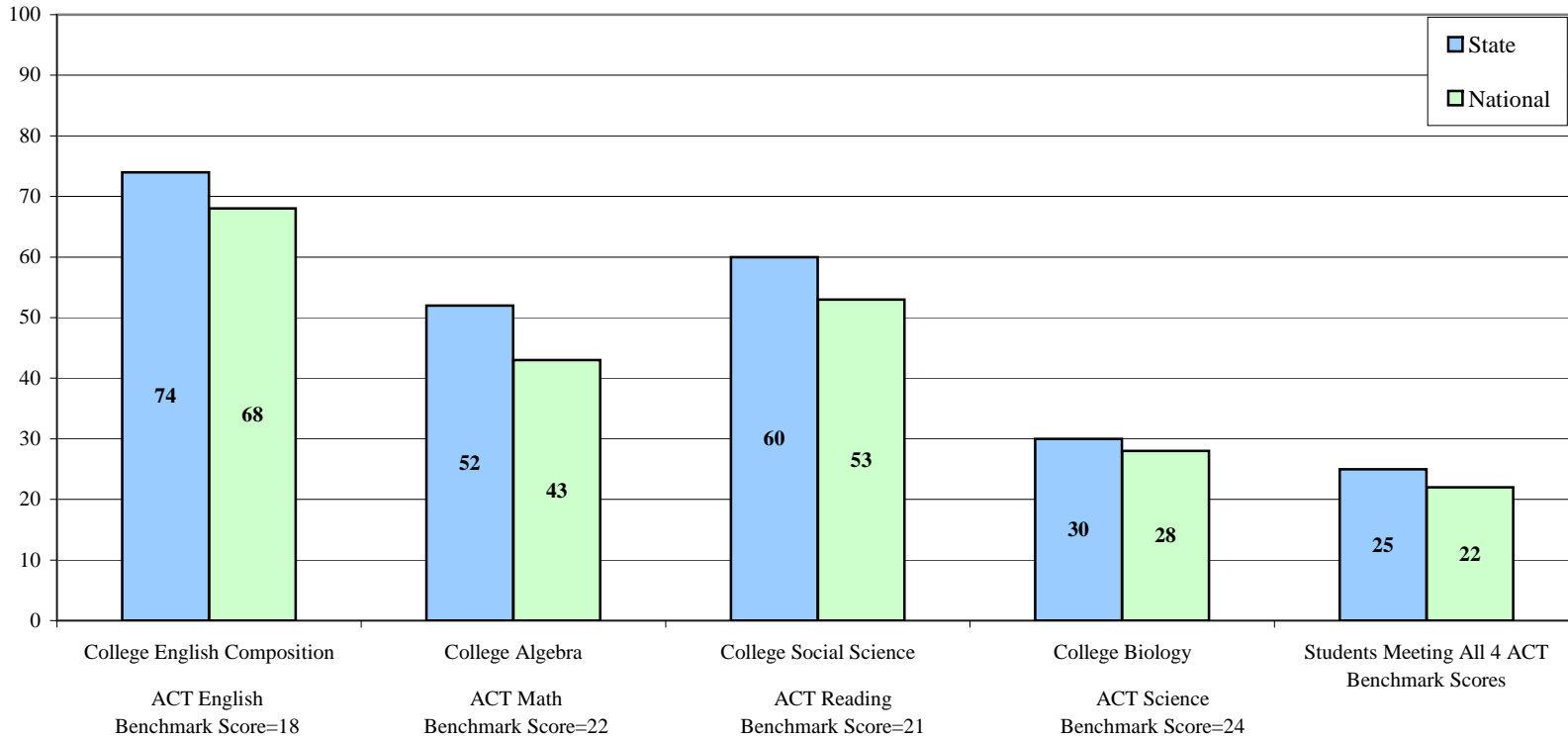
**PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS.** Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether among students with similar aspirations, academic performance is consistent across racial/ethnic 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 916-631-9200.

# 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	11,378	1,171,460	72	68	49	40	57	52	27	26	23	21
2005	10,470	1,186,251	71	68	48	41	56	51	28	26	23	21
2006	10,740	1,206,455	72	69	51	42	57	53	29	27	24	21
2007	11,084	1,300,599	73	69	52	43	58	53	29	28	25	23
<b>2008</b>	<b>11,602</b>	<b>1,421,941</b>	<b>74</b>	<b>68</b>	<b>52</b>	<b>43</b>	<b>60</b>	<b>53</b>	<b>30</b>	<b>28</b>	<b>25</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	11,378	1,171,460	20.9	20.4	21.6	20.7	22.0	21.3	21.2	20.9	21.5	20.9
2005	10,470	1,186,251	20.9	20.4	21.7	20.7	21.9	21.3	21.2	20.9	21.5	20.9
2006	10,740	1,206,455	20.9	20.6	21.9	20.8	22.0	21.4	21.3	20.9	21.6	21.1
2007	11,084	1,300,599	21.1	20.7	21.9	21.0	22.2	21.5	21.4	21.0	21.8	21.2
<b>2008</b>	<b>11,602</b>	<b>1,421,941</b>	<b>21.3</b>	<b>20.6</b>	<b>22.1</b>	<b>21.0</b>	<b>22.3</b>	<b>21.4</b>	<b>21.3</b>	<b>20.8</b>	<b>21.9</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	6,997	3,372	61	30	21.6	19.5	22.2	20.4	22.6	20.8	21.7	20.2	22.2	20.4
2005	6,232	3,127	60	30	21.5	19.8	22.3	20.6	22.5	20.9	21.7	20.4	22.1	20.5
2006	6,169	3,301	57	31	21.4	19.9	22.5	21.0	22.5	21.2	21.8	20.6	22.2	20.8
2007	6,094	3,475	55	31	21.6	20.0	22.4	20.9	22.6	21.3	21.8	20.6	22.2	20.9
<b>2008</b>	<b>7,900</b>	<b>2,880</b>	<b>68</b>	<b>25</b>	<b>21.8</b>	<b>20.0</b>	<b>22.6</b>	<b>20.9</b>	<b>22.7</b>	<b>21.3</b>	<b>21.7</b>	<b>20.2</b>	<b>22.3</b>	<b>20.7</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>11,378</b>	<b>100</b>	<b>21.5</b>	<b>10,470</b>	<b>100</b>	<b>21.5</b>	<b>10,740</b>	<b>100</b>	<b>21.6</b>	<b>11,084</b>	<b>100</b>	<b>21.8</b>	<b>11,602</b>	<b>100</b>	<b>21.9</b>
African American/Black	333	3	18.6	408	4	18.8	386	4	18.4	373	3	18.7	444	4	18.6
American Indian/Alaska Native	1,027	9	16.9	1,023	10	16.7	920	9	16.8	1,004	9	16.9	875	8	16.8
Caucasian American/White	6,581	58	22.7	5,853	56	22.9	5,727	53	22.9	5,570	50	23.0	6,478	56	23.1
Hispanic	1,735	15	19.8	1,601	15	19.7	1,644	15	19.8	1,650	15	19.8	1,826	16	20.0
Asian American/Pacific Islander	368	3	22.9	392	4	22.9	387	4	22.9	378	3	23.2	446	4	23.4
Other/No Response	1,334	12	21.9	1,193	11	22.1	1,676	16	22.1	2,109	19	22.6	1,533	13	22.5

# 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	15	100	47	100	72	100	21	100	3	100	36
35	125	100	62	100	117	99	41	100	29	100	35
34	180	99	104	99	171	98	67	99	41	100	34
33	137	97	160	98	223	97	75	99	103	99	33
32	145	96	146	97	280	95	84	98	141	98	32
31	218	95	140	96	350	93	86	98	180	97	31
30	264	93	287	94	425	90	163	97	249	96	30
29	286	91	341	92	391	86	168	95	336	94	29
28	365	88	521	89	484	83	252	94	435	91	28
27	379	85	593	84	456	78	373	92	513	87	27
26	489	82	655	79	472	74	506	89	603	83	26
25	619	78	837	74	560	70	833	84	722	77	25
24	699	72	803	66	677	66	806	77	822	71	24
23	637	66	707	60	860	60	827	70	846	64	23
22	876	61	630	53	565	52	1,168	63	915	57	22
21	996	53	746	48	803	47	1,014	53	956	49	21
20	867	45	640	42	810	40	1,221	44	927	41	20
19	699	37	731	36	692	33	982	34	841	33	19
18	558	31	801	30	482	28	833	25	724	25	18
17	581	26	864	23	582	23	490	18	684	19	17
16	479	21	954	15	569	18	464	14	508	13	16
15	534	17	556	7	447	13	320	10	433	9	15
14	356	13	206	2	413	10	254	7	271	5	14
13	289	9	48	1	310	6	204	5	173	3	13
12	229	7	12	1	180	3	153	3	95	1	12
11	195	5	3	1	106	2	88	2	37	1	11
10	174	3	5	1	66	1	53	1	11	1	10
9	89	2	3	1	16	1	36	1	2	1	9
8	70	1	0	1	12	1	14	1	2	1	8
7	35	1	0	1	5	1	5	1	0	1	7
6	12	1	0	1	2	1	1	1	0	1	6
5	3	1	0	1	4	1	0	1	0	1	5
4	2	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)	21.3 (5.9)		22.1 (5.1)		22.3 (5.9)		21.3 (4.6)		21.9 (4.7)		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	423	100	61	100	322	100	351	100	596	100	119	100	124	100	18
17	480	96	286	99	546	97	726	97	673	95	204	99	42	99	17
16	575	92	539	97	654	93	906	91	787	89	318	97	474	99	16
15	504	87	879	92	864	87	993	83	695	82	490	94	597	94	15
14	672	83	630	85	702	79	1,004	74	1,049	76	1,264	90	1,221	89	14
13	951	77	1,111	79	1,095	73	695	66	1,143	67	1,255	79	1,182	79	13
12	894	69	1,507	70	1,040	64	1,170	60	1,033	57	1,377	69	1,463	69	12
11	1,202	61	1,557	57	1,232	55	1,205	50	1,112	48	1,776	57	1,245	56	11
10	1,361	51	1,558	43	1,207	44	1,017	39	1,180	39	1,969	41	1,878	45	10
9	1,132	39	1,093	30	1,228	34	851	30	812	29	1,264	24	1,275	29	9
8	1,001	29	916	21	1,146	23	836	23	1,184	22	783	13	812	18	8
7	724	21	638	13	678	13	580	16	927	12	271	7	596	11	7
6	660	15	324	7	446	8	565	11	292	4	246	4	288	6	6
5	498	9	229	4	206	4	450	6	61	1	162	2	191	3	5
4	321	5	182	2	141	2	187	2	40	1	53	1	98	2	4
3	150	2	73	1	63	1	48	1	14	1	40	1	81	1	3
2	48	1	17	1	24	1	18	1	2	1	5	1	21	1	2
1	6	1	2	1	8	1	0	1	2	1	6	1	14	1	1
Avg (SD)	10.6 (3.7)		11.0 (3.1)		11.2 (3.4)		11.5 (3.7)		11.8 (3.4)		11.2 (2.7)		11.0 (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)	25	26	27	24	25
Q2 (50th Percentile)	21	22	22	21	22
Q1 (25th Percentile)	17	18	18	18	18

**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>11,602</b>	<b>68</b>	<b>22.3</b>	<b>20.7</b>
	African Am./Black	444	68	19.2	17.4
	Am. Indian/Alaska Native	875	57	17.5	15.7
	Caucasian Am./White	6,478	70	23.4	22.2
	Hispanic	1,826	70	20.2	19.3
	Asian Am./Pacific Islander	446	77	23.5	22.8
	Other/No Response	1,533	60	22.8	21.7
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>	21.3	22.1	22.3	21.3	21.9
	African Am./Black	17.5	18.8	19.0	18.5	18.6
	Am. Indian/Alaska Native	14.7	17.8	16.6	17.6	16.8
	Caucasian Am./White	22.7	23.1	23.7	22.3	23.1
	Hispanic	19.0	20.4	20.4	19.6	20.0
	Asian Am./Pacific Islander	22.7	24.6	23.3	22.6	23.4
	Other/No Response	22.2	22.8	23.0	21.6	22.5
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	457	4	373	3	583	5	204	2
	28 to 32	1,278	11	1,435	12	1,930	17	753	6
	24 to 27	2,186	19	2,888	25	2,165	19	2,518	22
	20 to 23	3,376	29	2,723	23	3,038	26	4,230	36
	16 to 19	2,317	20	3,350	29	2,325	20	2,769	24
	13 to 15	1,179	10	810	7	1,170	10	778	7
	01 to 12	809	7	23	0	391	3	350	3
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	4,742	41	20.8	23.0	22.3	21.9	22.1
	Females	6,477	56	21.5	21.5	22.3	20.8	21.6
	Missing	383	3	23.1	23.6	23.9	22.3	23.4
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	71	59	59	36	29
	Females	75	47	60	25	21
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	7,900	77	21.8	56	22.6	62	22.7	33	21.7	27	22.3
	Non-Core	2,880	66	20.0	42	20.9	52	21.3	23	20.2	19	20.7
	Missing	822	73	21.1	54	22.4	58	22.3	29	21.1	24	21.9
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	10,176	74	21.3	10,298	53	22.3	9,768	60	22.4	8,949	32	21.6
	Non-Core	790	70	20.6	602	33	19.9	1,153	53	21.5	1,882	22	20.0
	Missing	636	73	21.2	702	54	22.3	681	59	22.3	771	29	21.2
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

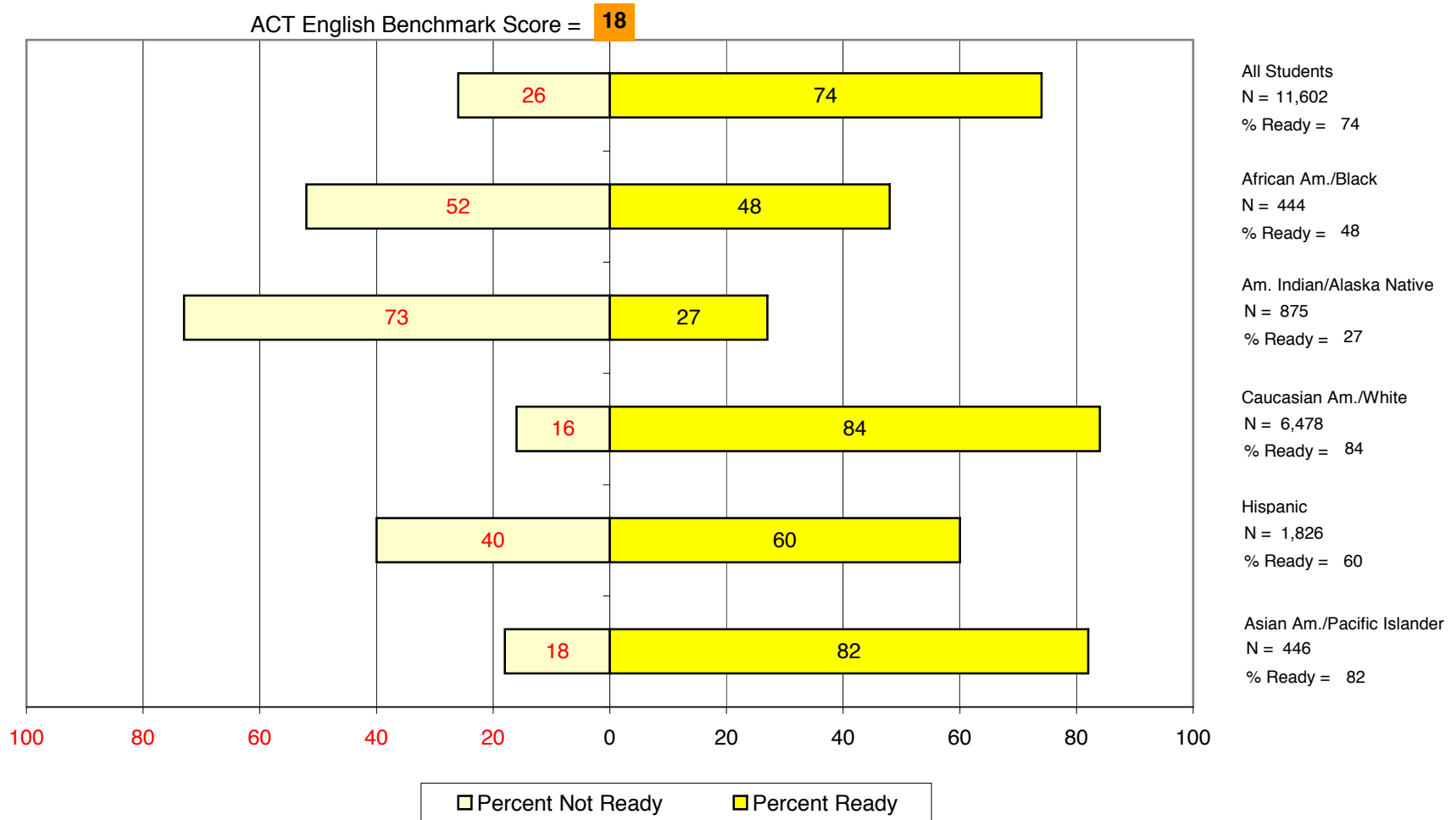


Figure 3.2. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

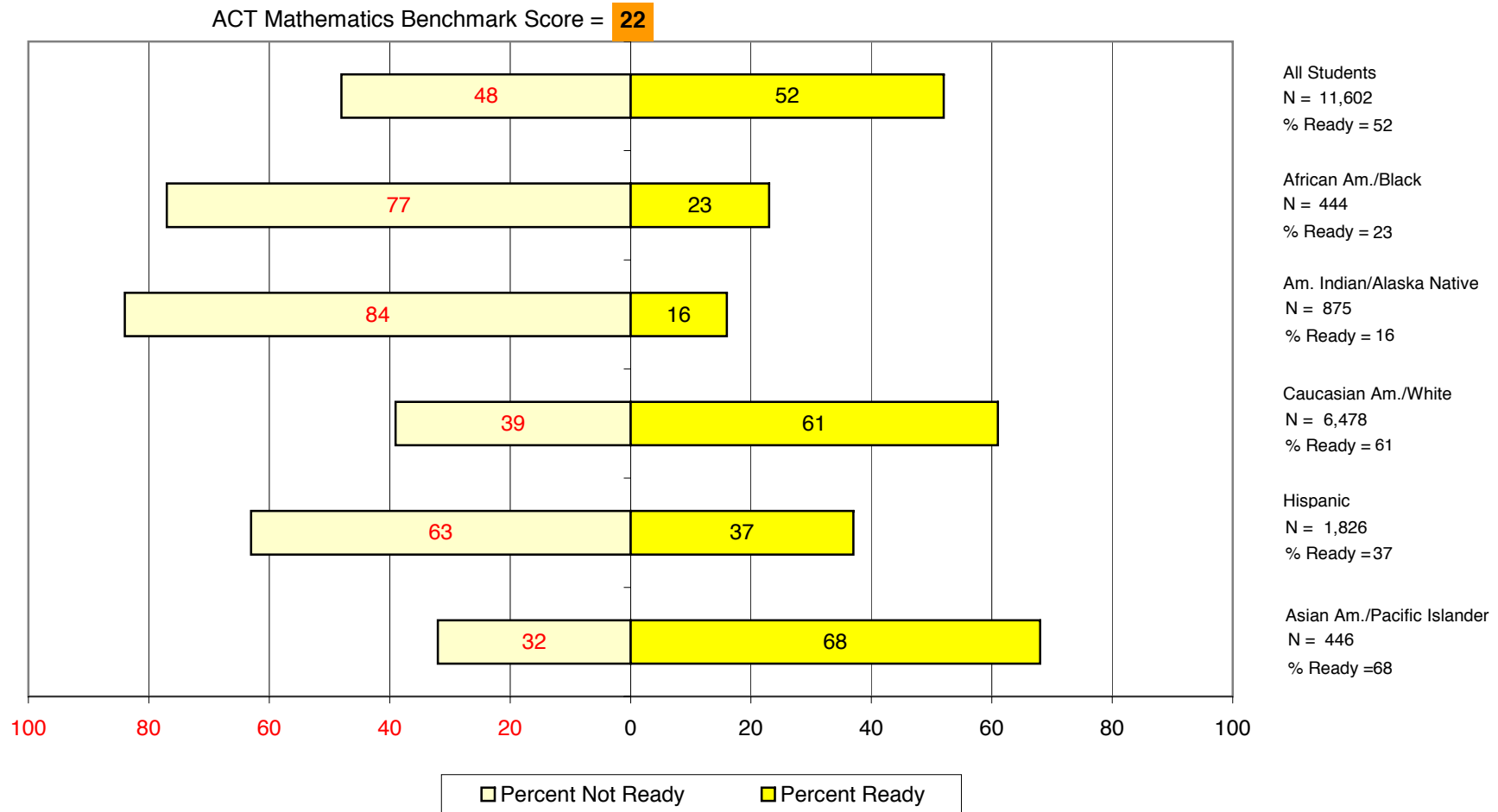


Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: READING

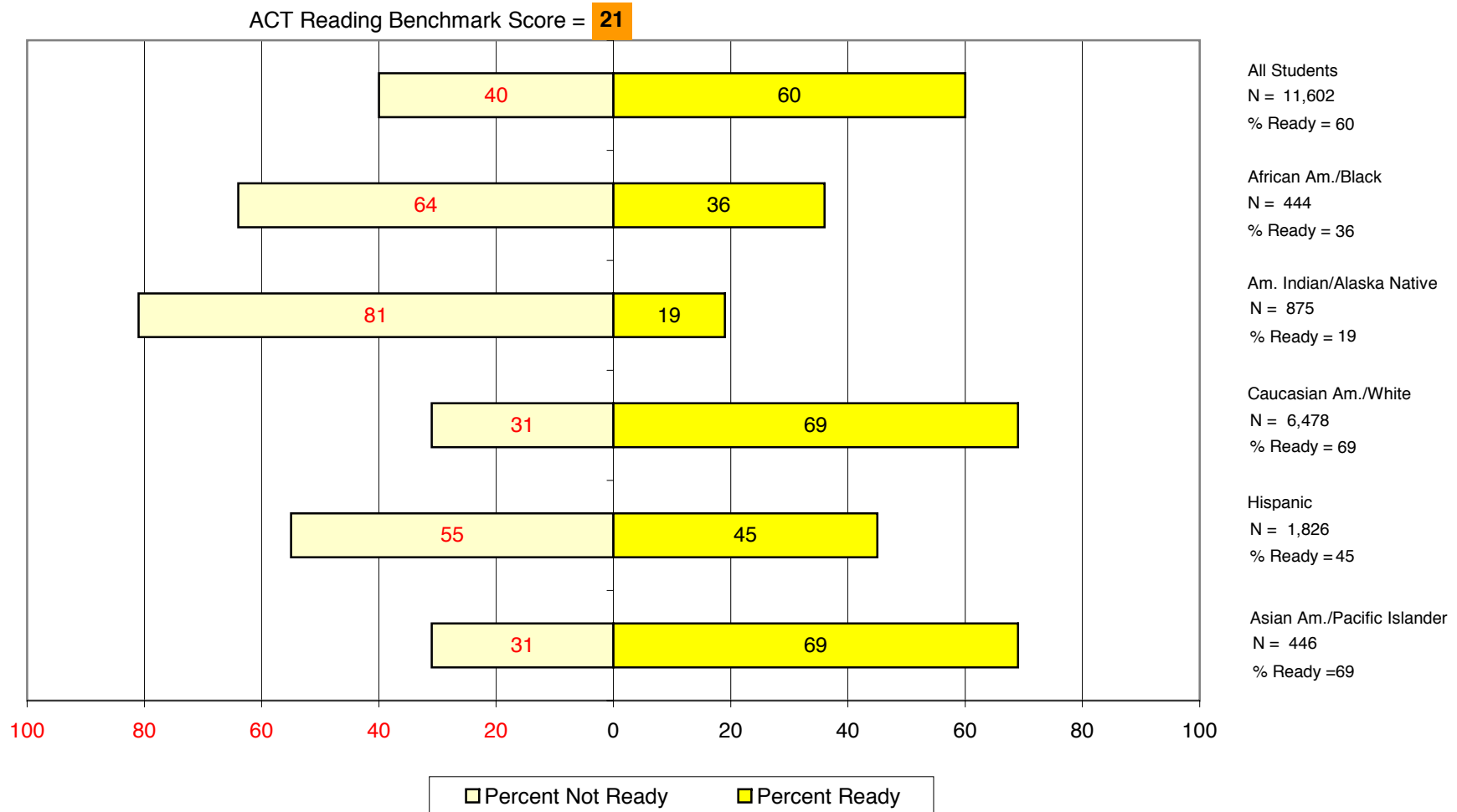


Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

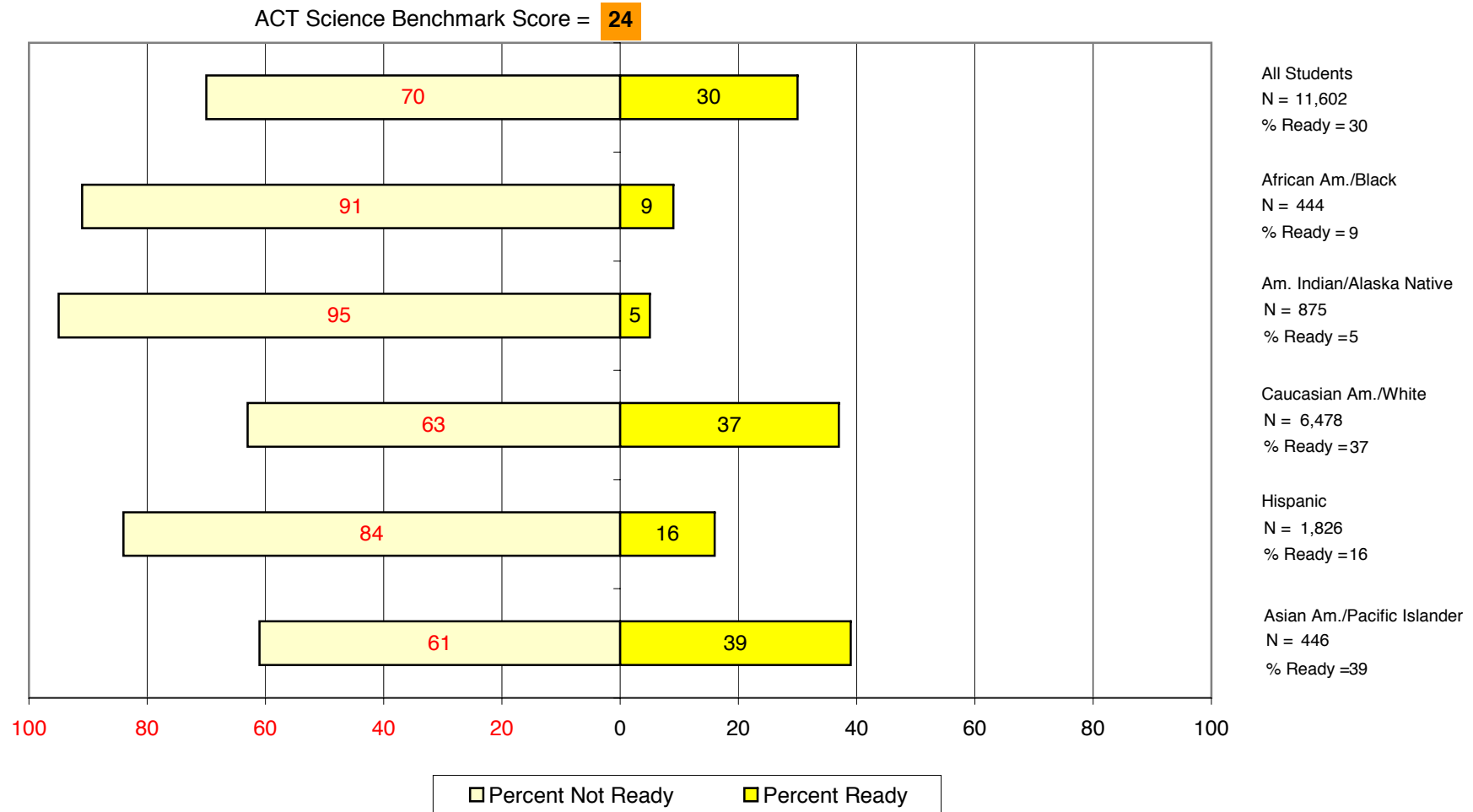
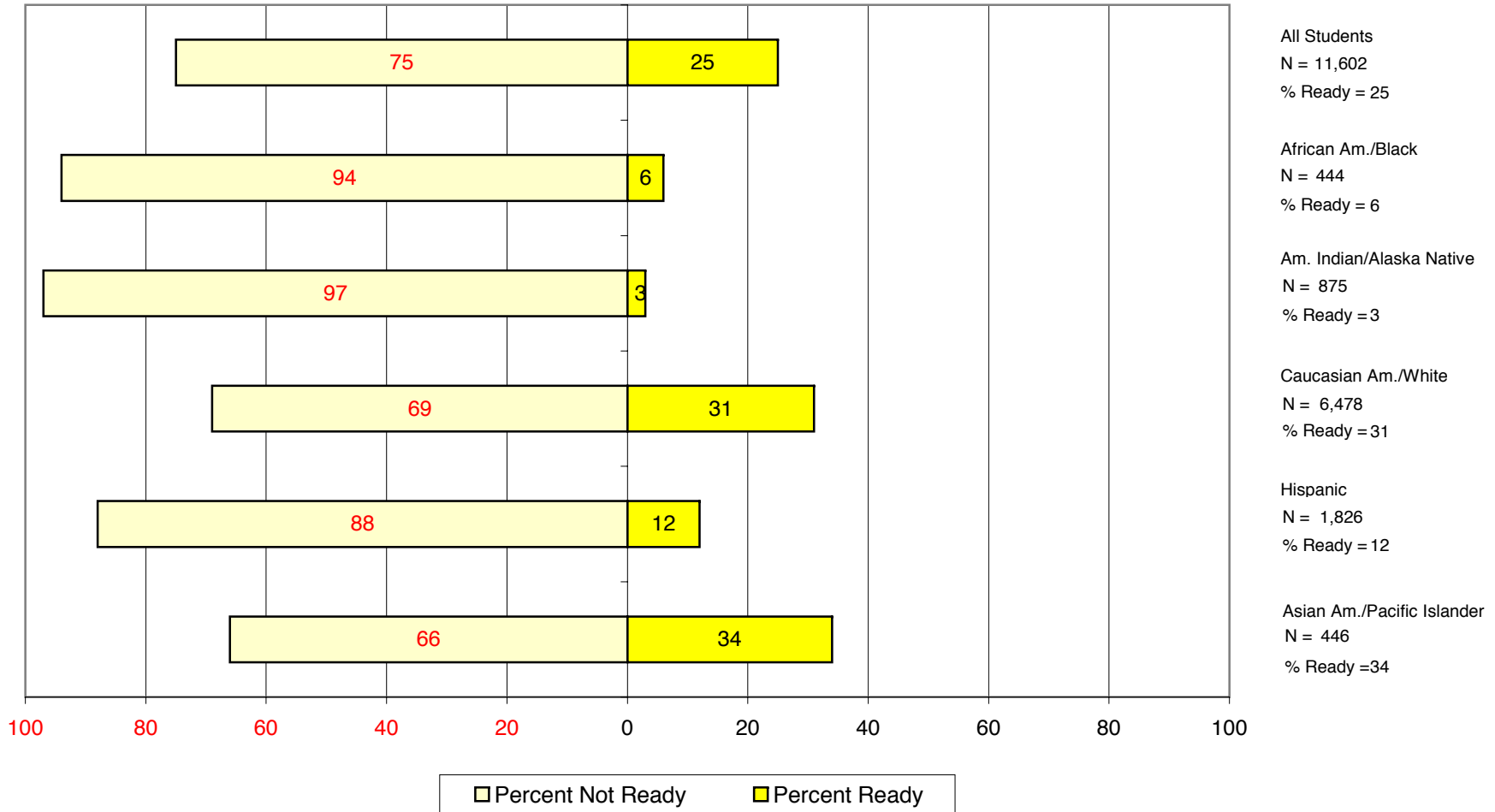


Figure 3.5. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR



**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	1,589	14	21.6	1.0	605	13	20.9	1.1	942	15	22.0	1.0
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	8,587	74	21.3	0.7	3,510	74	20.9	1.1	4,902	76	21.5	0.5
Less than 4 years of English	798	7	20.6	-	350	7	19.8	-	377	6	21.0	-
No English course/grade information reported	628	5	21.3	-	277	6	20.1	-	256	4	21.6	-
<b>MATHEMATICS COURSE PATTERN</b>												
Alg 1, Alg 2, Geom, Trig, & Calc	1,075	9	25.1	5.2	463	10	26.0	5.7	580	9	24.4	5.2
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	1,105	10	22.3	2.4	406	9	22.8	2.5	674	10	22.0	2.8
Alg 1, Alg 2, Geom, & Trig	1,326	11	21.4	1.5	519	11	22.3	2.0	783	12	20.7	1.5
Alg 1, Alg 2, Geom, & Other Adv Math	1,947	17	20.7	0.8	715	15	21.2	0.9	1,183	18	20.3	1.1
Other comb of 4 or more years of Math	3,077	27	24.2	4.3	1,373	29	25.0	4.7	1,625	25	23.4	4.2
Alg 1, Alg 2, & Geom (Min. Core)	1,225	11	18.5	-1.4	451	10	19.0	-1.3	746	12	18.1	-1.1
Other comb of 3 or 3.5 years of Math	543	5	22.5	2.6	246	5	23.6	3.3	286	4	21.5	2.3
Less than 3 years of Math	640	6	19.9	-	269	6	20.3	-	335	5	19.2	-
No Math course/grade information reported	664	6	22.4	-	300	6	22.4	-	265	4	21.7	-
<b>SOCIAL SCIENCE COURSE PATTERN</b>												
US Hist, World Hist, Am Gov, & Other Hist	350	3	23.1	1.6	162	3	22.4	1.1	185	3	23.6	2.3
Other comb of 4 or more years Social Science	4,684	40	22.9	1.4	1,838	39	22.8	1.5	2,761	43	22.9	1.6
US Hist, World Hist, & Am Gov (Min. Core)	1,128	10	21.0	-0.5	468	10	21.2	-0.1	640	10	20.8	-0.5
Other comb of 3 or 3.5 years of Social Science	3,606	31	22.3	0.8	1,462	31	22.4	1.1	2,055	32	22.1	0.8
Less than 3 years of Social Science	1,168	10	21.5	-	514	11	21.3	-	569	9	21.3	-
No Soc Sci course/grade information reported	666	6	22.3	-	298	6	21.7	-	267	4	22.2	-
<b>NATURAL SCIENCE COURSE PATTERN</b>												
Gen Sci <sup>2</sup> , Bio, Chem, & Phys	3,247	28	22.1	2.0	1,518	32	22.8	2.6	1,645	25	21.5	1.6
Bio, Chem, Phys	1,824	16	23.3	3.2	765	16	23.9	3.7	1,002	15	22.8	2.9
Gen Sci <sup>2</sup> , Bio, Chem (Min. Core)	3,471	30	20.2	0.1	1,229	26	20.7	0.5	2,176	34	20.0	0.1
Other comb of 3 years of Natural Science	407	4	21.0	0.9	216	5	21.4	1.2	180	3	20.4	0.5
Less than 3 years of Natural Science	1,954	17	20.1	-	697	15	20.2	-	1,198	18	19.9	-
No Nat Sci course/grade information reported	699	6	21.3	-	317	7	21.2	-	276	4	20.8	-

<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	1,589	14	21.6	76	266,394	19	21.8	76
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	8,587	74	21.3	74	949,721	67	20.5	68
Less than 4 years of English	798	7	20.6	70	112,496	8	18.8	56
No English course/grade information reported	628	5	21.3	73	93,330	7	20.2	64
<b>MATHEMATICS COURSE PATTERN</b>								
Alg 1, Alg 2, Geom, Trig, & Calc	1,075	9	25.1	75	91,985	6	24.8	74
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	1,105	10	22.3	56	113,879	8	22.3	57
Alg 1, Alg 2, Geom, & Trig	1,326	11	21.4	48	116,105	8	20.4	38
Alg 1, Alg 2, Geom, & Other Adv Math	1,947	17	20.7	40	204,909	14	20.4	38
Other comb of 4 or more years of Math	3,077	27	24.2	68	342,493	24	23.9	66
Alg 1, Alg 2, & Geom (Min. Core)	1,225	11	18.5	20	251,813	18	17.8	14
Other comb of 3 or 3.5 years of Math	543	5	22.5	55	70,951	5	20.8	41
Less than 3 years of Math	640	6	19.9	33	131,252	9	17.4	14
No Math course/grade information reported	664	6	22.4	55	98,554	7	21.1	44
<b>SOCIAL SCIENCE COURSE PATTERN</b>								
US Hist, World Hist, Am Gov, & Other Hist	350	3	23.1	62	42,546	3	22.7	61
Other comb of 4 or more years Social Science	4,684	40	22.9	64	604,055	42	21.9	56
US Hist, World Hist, & Am Gov (Min. Core)	1,128	10	21.0	51	86,500	6	20.8	48
Other comb of 3 or 3.5 years of Social Science	3,606	31	22.3	59	404,731	28	21.3	52
Less than 3 years of Social Science	1,168	10	21.5	53	185,561	13	20.4	45
No Soc Sci course/grade information reported	666	6	22.3	59	98,548	7	21.1	50
<b>NATURAL SCIENCE COURSE PATTERN</b>								
Gen Sci <sup>1</sup> , Bio, Chem, & Phys	3,247	28	22.1	37	453,654	32	22.2	38
Bio, Chem, Phys	1,824	16	23.3	46	134,033	9	23.2	47
Gen Sci <sup>1</sup> , Bio, Chem (Min. Core)	3,471	30	20.2	20	435,183	31	20.1	20
Other comb of 3 years of Natural Science	407	4	21.0	28	40,179	3	20.1	22
Less than 3 years of Natural Science	1,954	17	20.1	22	259,142	18	18.7	13
No Nat Sci course/grade information reported	699	6	21.3	29	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	103	1	19.0	5	2	15.6	91	1	19.3
Architecture & Environmental Design	257	2	20.8	8	3	17.0	239	2	21.0
Business & Management	1,133	10	21.2	19	8	16.5	1,040	10	21.3
Business & Office	54	0	19.5	2	1	15.5	44	0	19.9
Marketing & Distribution	105	1	20.9	3	1	17.7	95	1	21.0
Communications & Comm. Technologies	256	2	21.7	1	0	16.0	239	2	21.7
Community & Personal Services	179	2	19.2	10	4	15.5	162	2	19.5
Computer & Information Sciences	196	2	22.6	3	1	17.7	183	2	22.6
Cross-Disciplinary Studies	23	0	23.2	0	0	.	20	0	22.8
Education	400	3	21.4	7	3	19.1	370	4	21.5
Teacher Education	226	2	20.2	5	2	13.2	211	2	20.4
Engineering	581	5	23.4	13	5	14.2	547	5	23.6
Engineering-Related Technologies	325	3	22.4	6	3	12.7	302	3	22.7
Foreign Languages	65	1	23.6	0	0	.	60	1	23.5
Health Sciences & Allied Health Fields	2,129	18	21.0	57	24	16.5	1,981	20	21.2
Human, Family & Consumer Science	79	1	19.6	9	4	16.9	64	1	20.1
Letters	88	1	24.1	2	1	18.0	79	1	24.4
Mathematics	101	1	24.8	3	1	11.7	93	1	25.1
Philosophy, Religion & Theology	65	1	23.4	0	0	.	60	1	23.5
Sciences (Biological & Physical)	725	6	23.9	6	3	16.5	681	7	24.0
Social Sciences	715	6	22.3	4	2	21.8	678	7	22.3
Trade & Industrial	72	1	18.5	18	8	14.6	49	0	20.1
Visual & Performing Arts	631	5	21.7	15	6	16.7	568	6	21.9
Undecided	1,789	15	22.3	37	15	15.6	1,598	16	22.4
No Response	1,305	11	22.4	7	3	18.1	569	6	22.9

<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	59	15.4	0	.	40	14.1	12	19.2	5	16.2	0	.	2	16.5
2-yr College Degree	181	16.3	7	13.1	87	14.4	43	20.0	24	17.4	2	14.5	18	16.7
Bachelors Degree	3,881	20.7	161	17.7	274	16.7	2,406	21.7	578	19.2	87	21.4	375	20.9
Graduate Study	2,401	23.0	87	19.6	112	18.0	1,474	24.1	343	20.6	101	23.6	284	23.0
Prof. Level Degree	3,741	22.7	151	19.5	280	17.6	1,865	24.3	736	20.5	208	24.2	501	23.5
Other	195	19.2	13	16.6	29	15.9	82	20.9	35	17.5	11	22.5	25	20.1
No Response	1,144	22.4	25	18.0	53	17.2	596	23.0	105	20.0	37	23.9	328	23.1

**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
ARIZONA STATE UNIV AT THE TEMPE CAMPUS	Arizona	4,846	2,319	2,527	1	7	24	34	23	10	1
UNIVERSITY OF ARIZONA	Arizona	4,282	1,505	2,777	1	6	23	33	25	11	1
NORTHERN ARIZONA UNIVERSITY	Arizona	3,666	1,015	2,651	1	8	25	35	23	9	1
BRIGHAM YOUNG UNIVERSITY	Utah	650	374	276	0	2	10	31	35	20	3
MESA COMMUNITY COLLEGE	Arizona	535	89	446	4	11	30	35	15	5	0
GLENDALE COMMUNITY COLLEGE	Arizona	436	83	353	2	13	35	33	14	3	0
BRIGHAM YOUNG UNIVERSITY-IDAHO	Idaho	333	72	261	0	1	13	37	36	12	1
UNIVERSITY OF SOUTHERN CALIFORNIA	California	317	56	261	1	6	18	28	23	24	1
STANFORD UNIVERSITY	California	281	67	214	1	2	7	19	29	32	9
NCAA ELIGIBILITY CENTER	Indiana	276	137	139	1	7	34	32	17	7	1
GRAND CANYON UNIVERSITY	Arizona	269	36	233	2	9	32	38	16	3	0
PIMA COMMUNITY COLLEGE	Arizona	259	50	209	4	14	36	30	13	3	0
CHANDLER-GILBERT COMMUNITY COLLEGE	Arizona	253	47	206	2	5	31	40	17	5	0
SAN DIEGO STATE UNIVERSITY	California	253	37	216	0	4	25	38	26	8	0
UNIVERSITY OF CALIFORNIA-LOS ANGELES	California	248	22	226	1	6	19	28	26	19	1
EASTERN ARIZONA COLLEGE	Arizona	234	80	154	1	11	33	32	17	5	0
PHOENIX COLLEGE	Arizona	196	29	167	2	21	44	27	6	0	0
SCOTTSDALE COMMUNITY COLLEGE	Arizona	188	26	162	3	13	34	36	12	2	0
UNIVERSITY OF SAN DIEGO	California	184	24	160	0	5	17	28	28	22	1
UNIV OF COLORADO-Boulder	Colorado	183	38	145	1	6	15	28	33	15	2
FORT LEWIS COLLEGE	Colorado	170	49	121	6	34	35	19	5	1	0
YAVAPAI COLLEGE	Arizona	168	44	124	2	22	34	32	10	1	0
COLORADO STATE UNIVERSITY	Colorado	153	24	129	1	3	18	35	28	14	1
UNIVERSITY OF CALIFORNIA-SAN DIEGO	California	144	23	121	0	2	15	22	32	26	3
ARIZONA WESTERN COLLEGE	Arizona	143	48	95	1	20	34	31	11	1	0
COCONINO COMMUNITY COLLEGE	Arizona	124	24	100	8	31	37	17	7	0	0
EMBRY-RIDDLE AERONAUTICAL UNIV	Arizona	124	46	78	1	6	19	29	33	10	2
UNIVERSITY OF CALIFORNIA-BERKELEY	California	124	20	104	1	4	10	15	34	30	6
NEW YORK UNIVERSITY	New York	111	33	78	0	4	15	21	31	29	1
UNIV OF TEXAS AT AUSTIN	Texas	109	13	96	4	2	13	32	33	14	3
All Other Institutions		8,660	1,891	6,769	2	8	21	27	25	15	2
<b>Total</b>		<b>27,919</b>	<b>8,321</b>	<b>19,598</b>	<b>1</b>	<b>8</b>	<b>23</b>	<b>31</b>	<b>24</b>	<b>12</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>5,523</b>	<b>770,529</b>	<b>22.3</b>	<b>21.4</b>	<b>7.5</b>	<b>7.3</b>	<b>21.8</b>	<b>20.9</b>
African Am./Black	217	86,049	18.3	16.6	7.1	6.5	18.5	16.6
Am. Indian/Alaska Native	390	5,148	14.8	18.9	6.2	6.7	15.0	18.5
Caucasian Am./White	3,046	464,177	23.7	22.5	7.6	7.4	22.8	21.8
Hispanic	768	71,060	20.2	18.3	7.4	7.1	20.1	18.5
Asian Am./Pacific Islander	262	37,359	24.2	23.1	7.9	7.9	23.5	22.6
Other/No Response	840	106,736	23.5	22.2	7.6	7.5	22.8	21.7
Males	2,116	327,613	21.8	20.9	7.2	7.0	21.1	20.2
Females	3,186	421,968	22.6	21.7	7.7	7.6	22.1	21.3
Missing	221	20,948	24.3	23.9	7.8	7.9	23.4	23.2



