

# ACT High School Profile Report

The Graduating Class of 2008  
Tennessee





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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

18% 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.** 50,225 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. 66% 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, 7% were college ready. 35% of the cohort reported taking the minimum core (Algebra I, Algebra II, and Geometry). 10% of these students were college ready. In comparison, 49% 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 21% of the cohort took less than three years of natural science courses. 13% of these students were college ready. In comparison, 26% 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 57% 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).

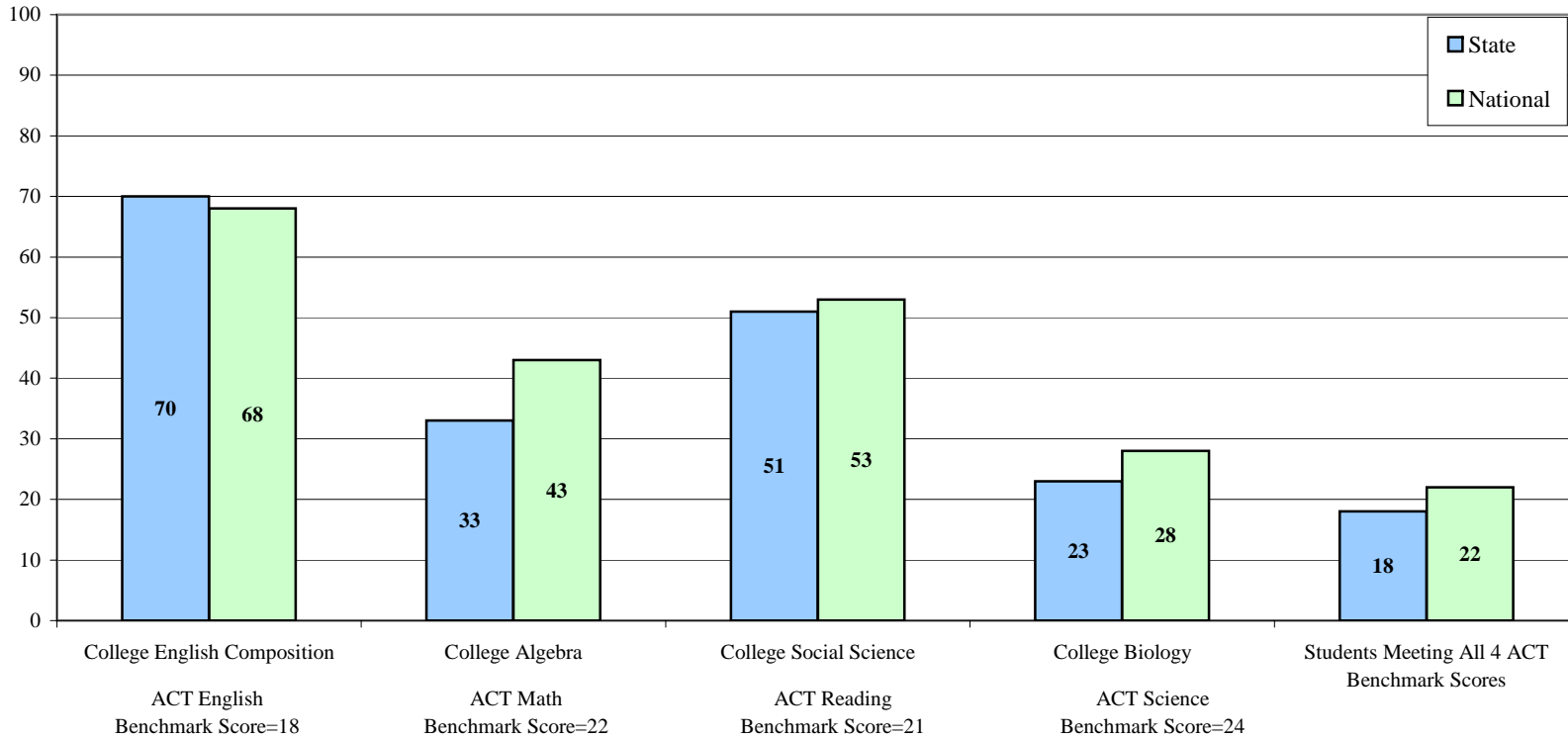
**PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS.** Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether among students with similar aspirations, academic performance is consistent across racial/ethnic 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 404-231-1952.

# 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	42,662	1,171,460	69	68	32	40	49	52	22	26	17	21
2005	43,974	1,186,251	69	68	32	41	48	51	21	26	16	21
2006	44,985	1,206,455	70	69	34	42	51	53	23	27	17	21
2007	48,113	1,300,599	70	69	33	43	50	53	23	28	18	23
<b>2008</b>	<b>50,225</b>	<b>1,421,941</b>	<b>70</b>	<b>68</b>	<b>33</b>	<b>43</b>	<b>51</b>	<b>53</b>	<b>23</b>	<b>28</b>	<b>18</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	42,662	1,171,460	20.6	20.4	19.7	20.7	21.0	21.3	20.3	20.9	20.5	20.9
2005	43,974	1,186,251	20.6	20.4	19.7	20.7	20.8	21.3	20.2	20.9	20.5	20.9
2006	44,985	1,206,455	20.8	20.6	19.9	20.8	21.1	21.4	20.3	20.9	20.7	21.1
2007	48,113	1,300,599	20.8	20.7	19.9	21.0	21.1	21.5	20.4	21.0	20.7	21.2
<b>2008</b>	<b>50,225</b>	<b>1,421,941</b>	<b>20.8</b>	<b>20.6</b>	<b>19.9</b>	<b>21.0</b>	<b>21.1</b>	<b>21.4</b>	<b>20.3</b>	<b>20.8</b>	<b>20.7</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	26,244	14,519	62	34	21.6	18.8	20.5	18.3	21.7	19.5	20.9	19.1	21.3	19.1
2005	27,013	14,872	61	34	21.5	18.9	20.4	18.4	21.6	19.4	20.8	19.1	21.2	19.1
2006	27,734	14,736	62	33	21.7	19.1	20.6	18.6	21.7	19.7	20.9	19.2	21.4	19.3
2007	28,474	15,656	59	33	21.5	19.1	20.5	18.6	21.7	19.9	20.9	19.2	21.3	19.3
<b>2008</b>	<b>33,031</b>	<b>15,344</b>	<b>66</b>	<b>31</b>	<b>21.6</b>	<b>19.1</b>	<b>20.5</b>	<b>18.5</b>	<b>21.8</b>	<b>19.8</b>	<b>20.9</b>	<b>19.1</b>	<b>21.3</b>	<b>19.2</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>42,662</b>	<b>100</b>	<b>20.5</b>	<b>43,974</b>	<b>100</b>	<b>20.5</b>	<b>44,985</b>	<b>100</b>	<b>20.7</b>	<b>48,113</b>	<b>100</b>	<b>20.7</b>	<b>50,225</b>	<b>100</b>	<b>20.7</b>
African American/Black	7,415	17	16.9	7,586	17	16.9	7,952	18	17.1	8,790	18	17.0	9,594	19	17.0
American Indian/Alaska Native	113	0	19.7	125	0	19.9	143	0	20.8	179	0	20.5	155	0	20.3
Caucasian American/White	31,584	74	21.3	32,304	73	21.3	32,350	72	21.5	33,538	70	21.5	35,402	70	21.6
Hispanic	625	1	19.4	732	2	19.5	791	2	19.8	841	2	19.3	1,146	2	19.5
Asian American/Pacific Islander	714	2	21.4	773	2	21.8	806	2	22.3	872	2	22.5	904	2	22.5
Other/No Response	2,211	5	20.8	2,454	6	20.8	2,943	7	20.8	3,893	8	21.6	3,024	6	21.1

# 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	57	100	59	100	212	100	92	100	13	100	36
35	549	100	151	100	357	100	137	100	64	100	35
34	721	99	220	100	589	99	152	100	145	100	34
33	626	97	297	99	779	98	250	99	274	100	33
32	671	96	304	99	910	96	295	99	438	99	32
31	855	95	348	98	1,179	94	311	98	597	98	31
30	1,064	93	620	97	1,497	92	523	98	905	97	30
29	1,149	91	830	96	1,454	89	555	96	1,079	95	29
28	1,413	89	1,215	94	1,521	86	841	95	1,277	93	28
27	1,441	86	1,414	92	1,588	83	1,304	94	1,672	90	27
26	1,901	83	1,751	89	1,752	80	1,455	91	1,949	87	26
25	2,619	79	2,220	86	2,000	76	2,986	88	2,293	83	25
24	2,577	74	2,343	81	2,673	72	2,738	82	2,755	79	24
23	2,643	69	2,386	77	3,207	67	2,986	77	3,022	73	23
22	3,472	64	2,186	72	2,540	61	4,639	71	3,534	67	22
21	4,206	57	2,861	67	3,316	56	3,745	62	4,268	60	21
20	3,624	48	2,682	62	3,201	49	5,533	54	3,732	52	20
19	3,019	41	3,391	56	3,580	43	4,925	43	4,147	44	19
18	2,534	35	4,233	50	2,187	36	4,022	33	3,869	36	18
17	2,493	30	5,268	41	3,000	31	2,467	25	3,757	28	17
16	2,447	25	6,541	31	2,734	25	3,118	20	3,116	21	16
15	2,697	20	5,352	18	2,734	20	1,804	14	2,687	15	15
14	1,868	15	2,461	7	2,514	14	1,593	11	2,176	9	14
13	1,425	11	742	2	1,996	9	1,245	7	1,449	5	13
12	1,114	8	266	1	1,235	5	1,098	5	697	2	12
11	1,043	6	57	1	827	3	745	3	248	1	11
10	953	4	18	1	402	1	413	1	50	1	10
9	527	2	8	1	130	1	160	1	12	1	9
8	334	1	1	1	50	1	59	1	0	1	8
7	137	1	0	1	41	1	23	1	0	1	7
6	32	1	0	1	11	1	10	1	0	1	6
5	9	1	0	1	4	1	0	1	0	1	5
4	3	1	0	1	4	1	1	1	0	1	4
3	1	1	0	1	0	1	0	1	0	1	3
2	1	1	0	1	1	1	0	1	0	1	2
1	0	1	0	1	0	1	0	1	0	1	1
Avg (SD)	20.8 (6.0)		19.9 (4.8)		21.1 (6.0)		20.3 (4.7)		20.7 (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	1,684	100	307	100	1,042	100	1,179	100	1,338	100	196	100	258	100	18
17	2,077	97	1,215	99	1,811	98	2,463	98	1,582	97	480	100	109	99	17
16	2,335	93	2,147	97	2,314	94	3,164	93	1,937	94	653	99	1,066	99	16
15	2,105	88	3,475	93	2,749	90	3,401	86	1,997	90	1,086	97	1,445	97	15
14	2,775	84	2,692	86	2,699	84	3,768	80	2,849	86	3,089	95	3,090	94	14
13	3,781	78	4,024	80	4,062	79	2,501	72	3,538	81	2,940	89	3,242	88	13
12	3,546	71	6,132	72	4,186	71	4,318	67	3,954	74	4,415	83	4,455	82	12
11	5,126	64	5,671	60	5,319	62	5,103	59	4,674	66	6,143	74	5,355	73	11
10	5,621	53	7,101	49	5,088	52	4,754	48	5,327	56	9,416	62	7,980	62	10
9	5,240	42	4,805	35	6,154	42	4,012	39	4,199	46	7,468	43	8,016	46	9
8	4,322	32	4,893	25	5,522	29	4,414	31	7,305	37	6,395	29	5,534	30	8
7	3,450	23	3,159	15	4,179	18	3,352	22	6,867	23	2,219	16	3,704	19	7
6	3,092	16	2,022	9	2,607	10	2,848	16	3,176	9	2,798	11	2,032	12	6
5	2,377	10	1,267	5	1,281	5	3,169	10	922	3	1,632	6	1,939	8	5
4	1,737	5	945	3	709	2	1,217	4	379	1	585	3	764	4	4
3	715	2	298	1	350	1	371	1	134	1	533	1	850	2	3
2	226	1	63	1	122	1	185	1	42	1	71	1	227	1	2
1	16	1	9	1	31	1	6	1	5	1	106	1	159	1	1
Avg (SD)	10.4 (3.8)		10.7 (3.2)		10.6 (3.4)		10.7 (3.8)		10.4 (3.4)		9.9 (2.8)		9.8 (3.0)		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	23	25	23	24
Q2 (50th Percentile)	21	19	21	20	20
Q1 (25th Percentile)	16	16	16	17	17

**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>50,225</b>	<b>66</b>	<b>21.3</b>	<b>19.2</b>
	African Am./Black	9,594	68	17.5	16.0
	Am. Indian/Alaska Native	155	53	22.0	18.3
	Caucasian Am./White	35,402	66	22.3	20.1
	Hispanic	1,146	63	20.5	17.7
	Asian Am./Pacific Islander	904	74	23.3	20.2
	Other/No Response	3,024	57	21.7	19.8
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>	20.8	19.9	21.1	20.3	20.7
	African Am./Black	16.6	16.7	16.9	17.3	17.0
	Am. Indian/Alaska Native	20.1	19.4	21.1	19.9	20.3
	Caucasian Am./White	21.9	20.6	22.2	21.1	21.6
	Hispanic	19.0	19.0	19.8	19.5	19.5
	Asian Am./Pacific Islander	22.4	23.1	22.1	21.9	22.5
	Other/No Response	21.2	20.3	21.8	20.6	21.1
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	1,953	4	727	1	1,937	4	631	1
	28 to 32	5,152	10	3,317	7	6,561	13	2,525	5
	24 to 27	8,538	17	7,728	15	8,013	16	8,483	17
	20 to 23	13,945	28	10,115	20	12,264	24	16,903	34
	16 to 19	10,493	21	19,433	39	11,501	23	14,532	29
	13 to 15	5,990	12	8,555	17	7,244	14	4,642	9
	01 to 12	4,154	8	350	1	2,705	5	2,509	5
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	22,474	45	20.5	20.5	21.2	20.9	20.9
	Females	27,304	54	21.0	19.3	21.0	19.8	20.4
	Missing	447	1	22.8	21.6	23.6	22.0	22.6
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	68	38	52	28	22
	Females	71	28	50	19	14
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	33,031	76	21.6	38	20.5	56	21.8	27	20.9	21	21.3
	Non-Core	15,344	58	19.1	21	18.5	41	19.8	15	19.1	11	19.2
	Missing	1,850	64	20.3	35	20.0	49	21.1	25	20.2	20	20.5
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	46,909	70	20.9	45,576	34	20.1	42,967	52	21.3	38,004	26	20.7
	Non-Core	1,844	60	19.2	3,032	7	16.3	5,658	41	19.8	10,510	13	18.8
	Missing	1,472	67	20.8	1,617	35	20.1	1,600	51	21.3	1,711	26	20.3
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

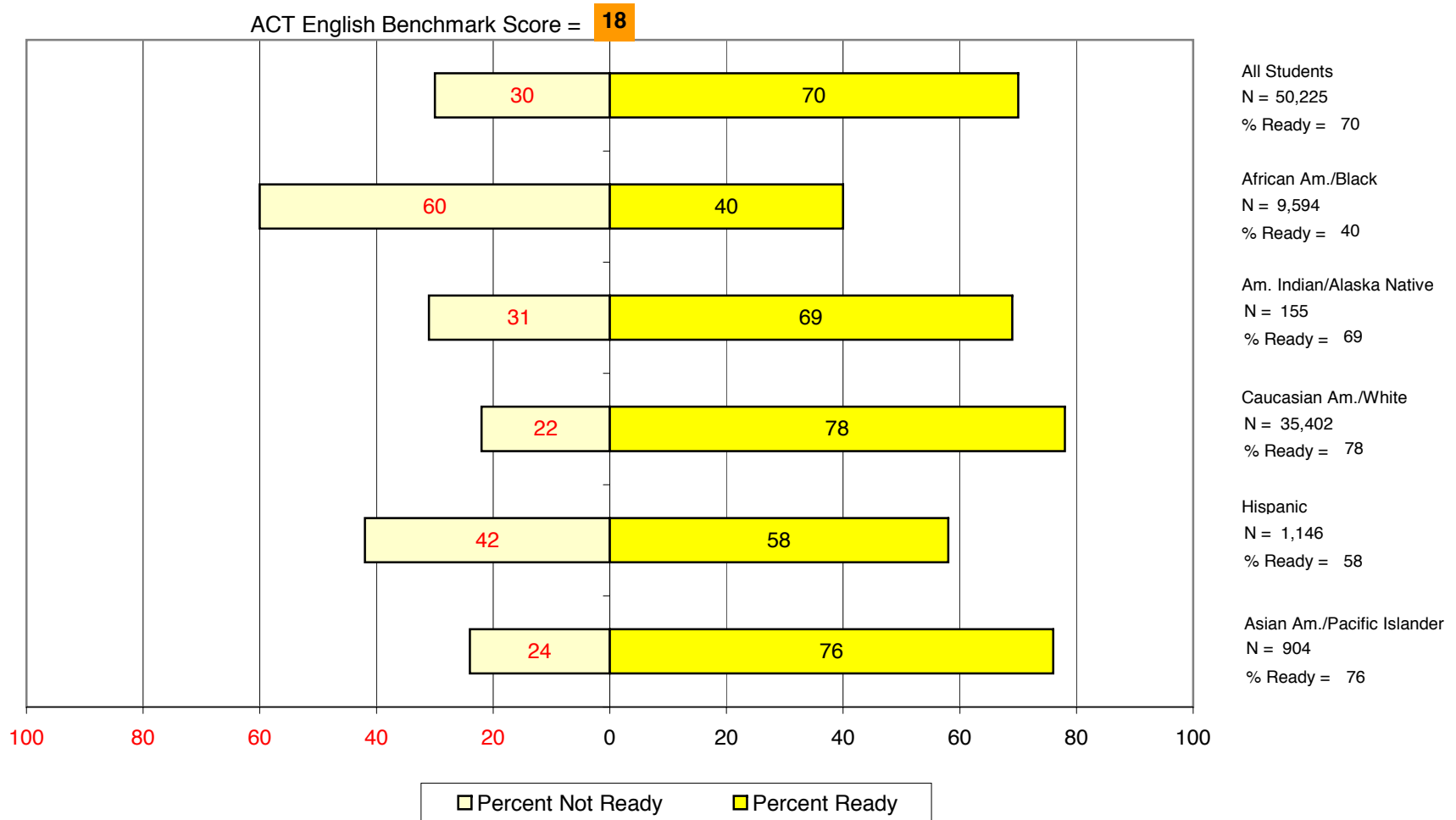


Figure 3.2. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

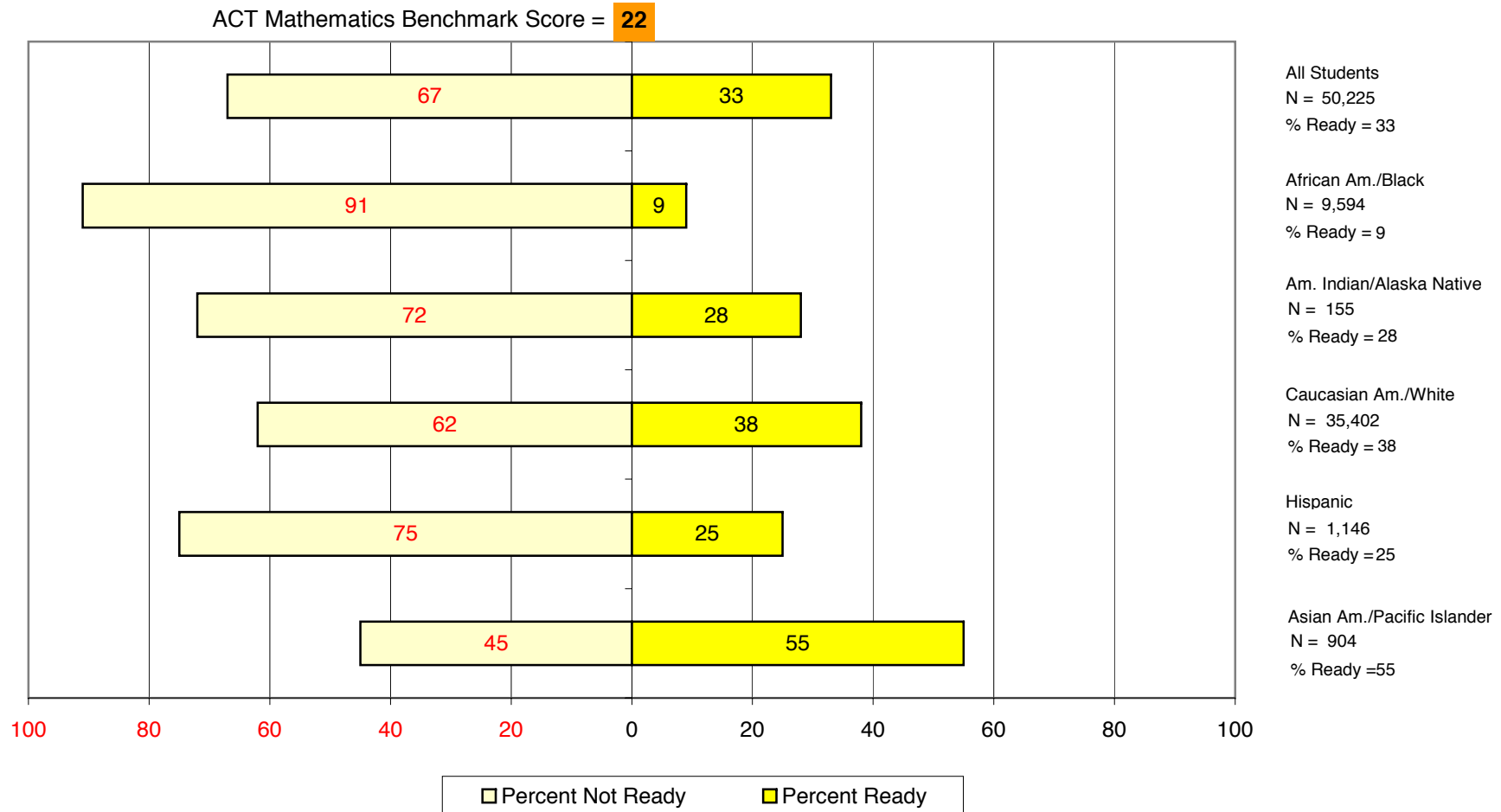


Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: READING

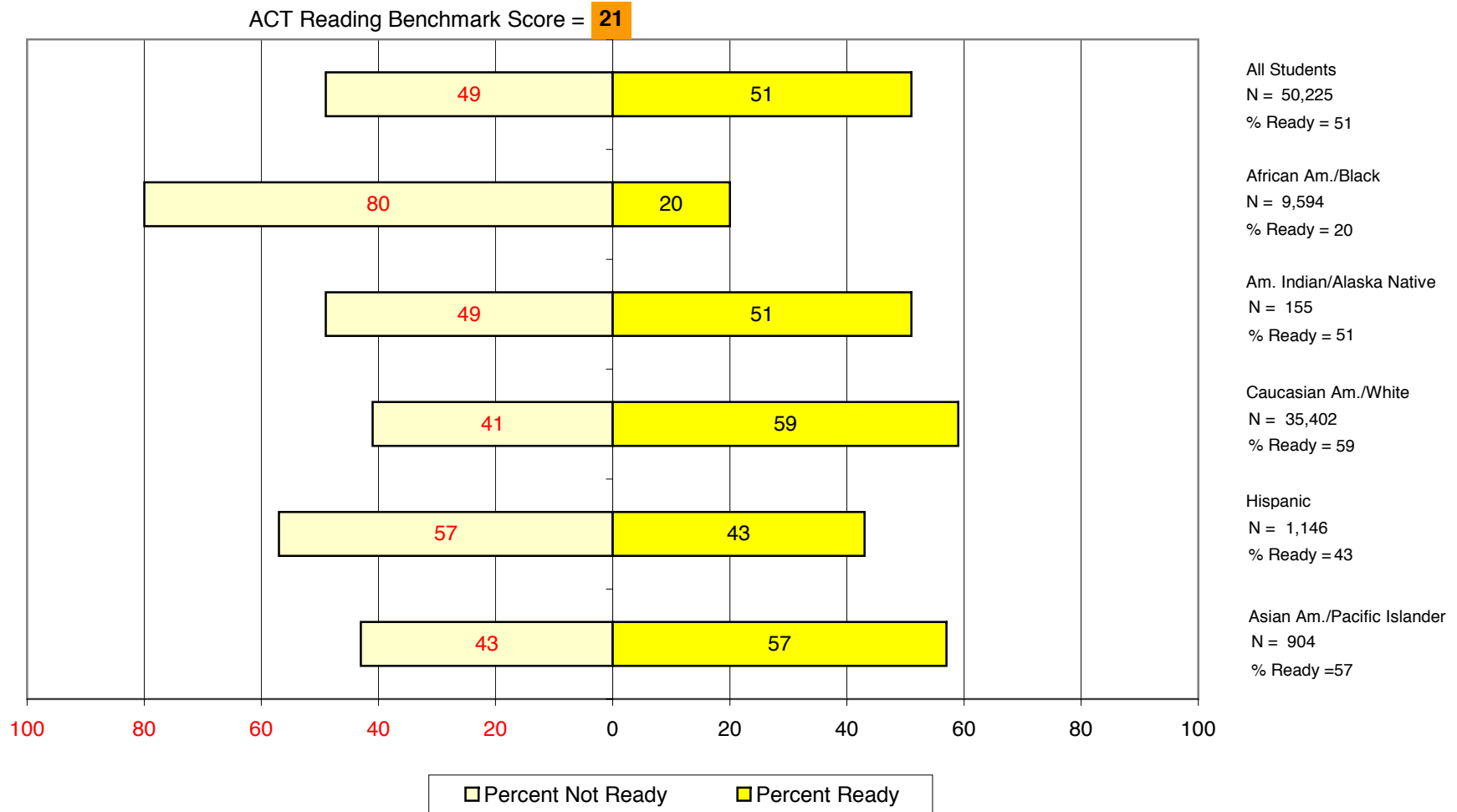


Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

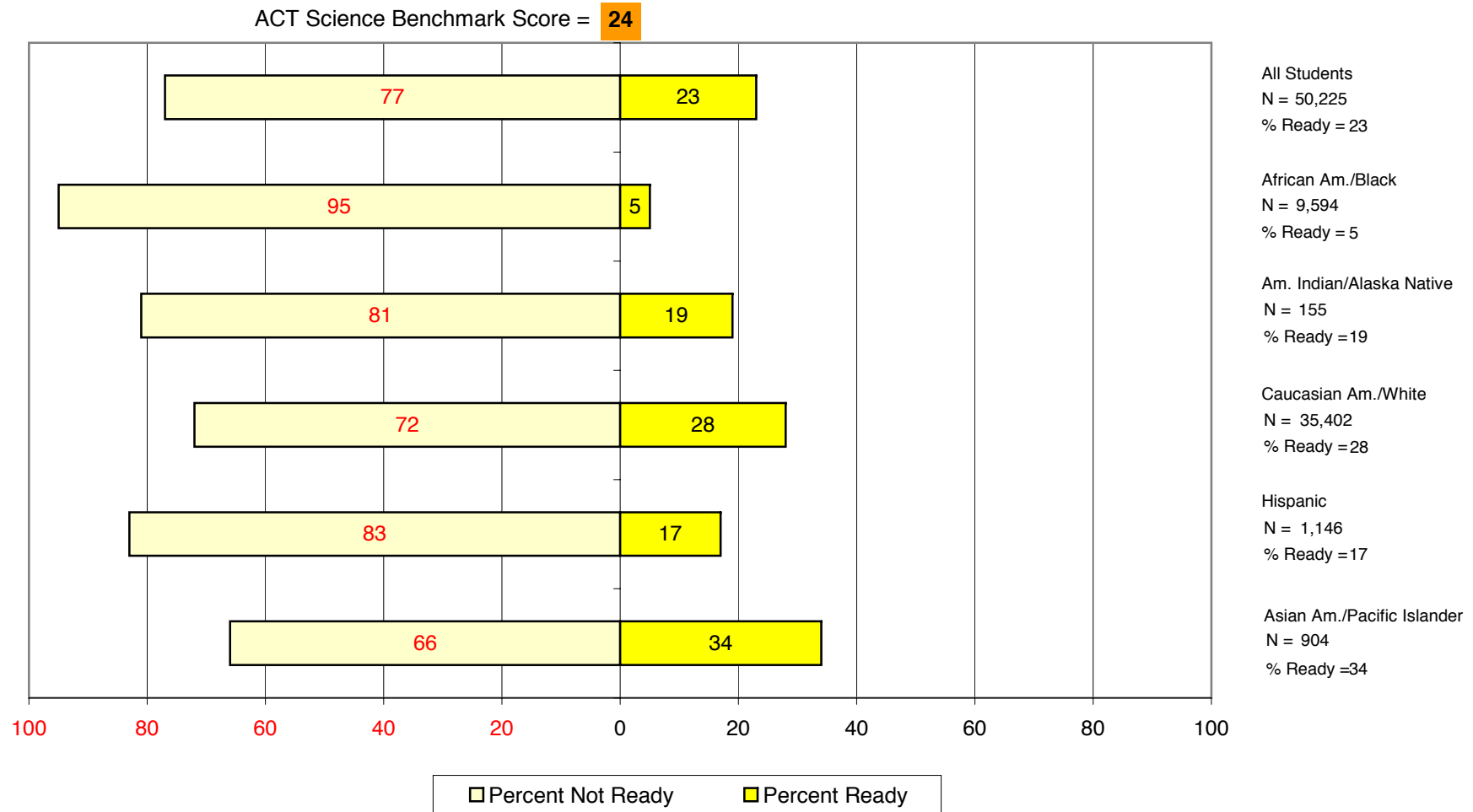
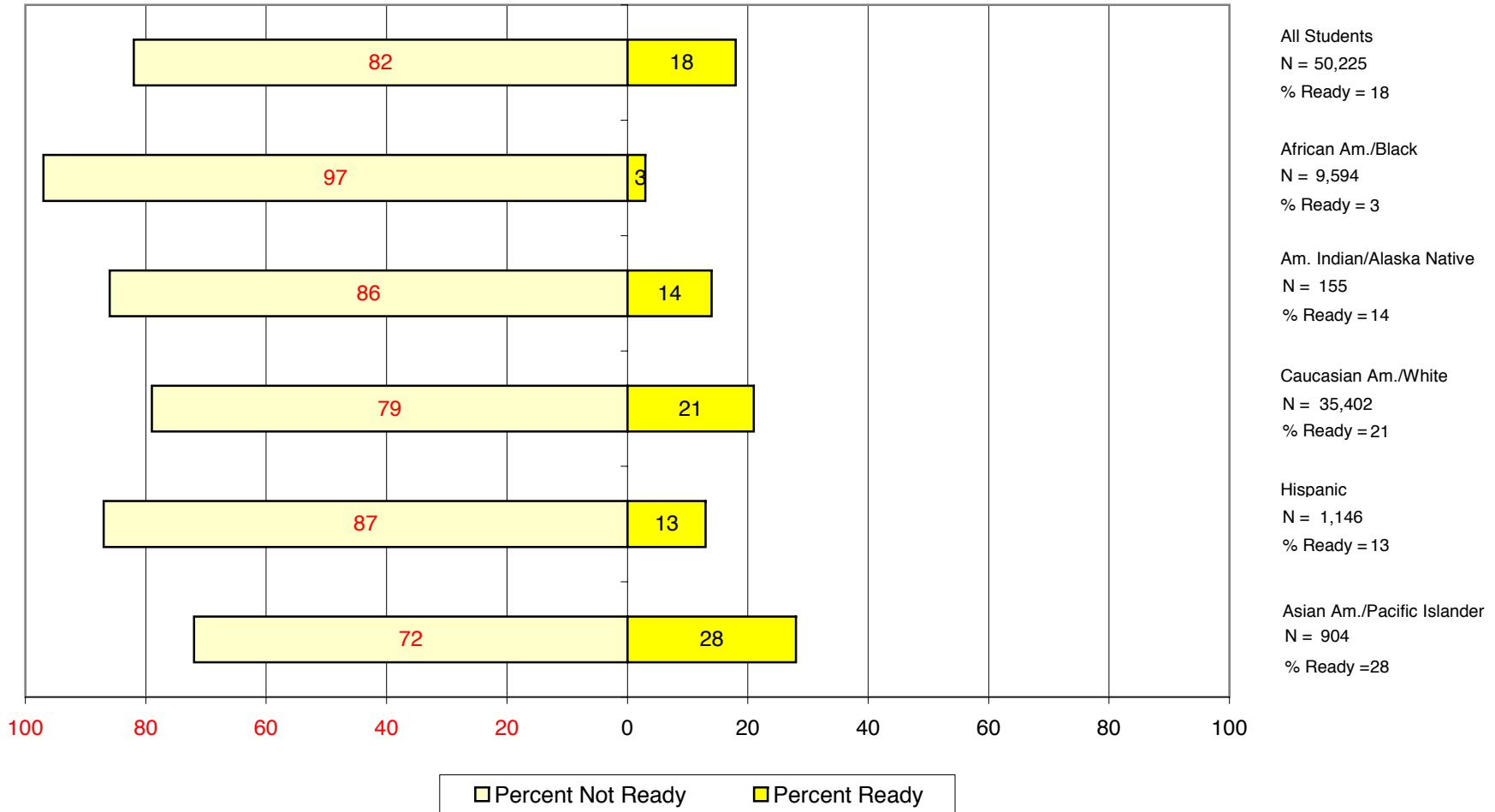


Figure 3.5. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR



**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	5,942	12	22.8	3.6	2,498	11	22.3	3.3	3,404	12	23.1	3.7
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	40,967	82	20.6	1.4	18,324	82	20.4	1.4	22,417	82	20.8	1.4
Less than 4 years of English	1,850	4	19.2	-	898	4	19.0	-	912	3	19.4	-
No English course/grade information reported	1,466	3	20.8	-	754	3	19.9	-	571	2	21.0	-
<b>MATHEMATICS COURSE PATTERN</b>												
Alg 1, Alg 2, Geom, Trig, & Calc	1,854	4	24.1	7.8	904	4	25.0	8.5	933	3	23.3	7.3
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	3,428	7	22.0	5.7	1,352	6	22.8	6.3	2,054	8	21.5	5.5
Alg 1, Alg 2, Geom, & Trig	3,949	8	20.1	3.8	1,724	8	20.8	4.3	2,194	8	19.4	3.4
Alg 1, Alg 2, Geom, & Other Adv Math	7,974	16	20.5	4.2	3,212	14	21.1	4.6	4,717	17	20.1	4.1
Other comb of 4 or more years of Math	8,790	18	23.6	7.3	4,509	20	24.3	7.8	4,228	15	23.0	7.0
Alg 1, Alg 2, & Geom (Min. Core)	17,436	35	17.3	1.0	7,339	33	17.7	1.2	10,014	37	16.9	0.9
Other comb of 3 or 3.5 years of Math	2,145	4	20.5	4.2	1,081	5	20.8	4.3	1,039	4	20.1	4.1
Less than 3 years of Math	3,131	6	16.3	-	1,571	7	16.5	-	1,533	6	16.0	-
No Math course/grade information reported	1,518	3	20.3	-	782	3	20.1	-	592	2	19.8	-
<b>SOCIAL SCIENCE COURSE PATTERN</b>												
US Hist, World Hist, Am Gov, & Other Hist	263	1	23.5	3.8	128	1	23.0	3.2	133	0	23.9	4.3
Other comb of 4 or more years Social Science	18,914	38	21.8	2.1	8,494	38	21.9	2.1	10,304	38	21.8	2.2
US Hist, World Hist, & Am Gov (Min. Core)	897	2	20.2	0.5	472	2	20.3	0.5	419	2	20.1	0.5
Other comb of 3 or 3.5 years of Social Science	22,893	46	20.9	1.2	9,754	43	21.0	1.2	13,030	48	20.8	1.2
Less than 3 years of Social Science	5,689	11	19.7	-	2,808	12	19.8	-	2,812	10	19.6	-
No Soc Sci course/grade information reported	1,569	3	21.4	-	818	4	21.0	-	606	2	21.1	-
<b>NATURAL SCIENCE COURSE PATTERN</b>												
Gen Sci <sup>2</sup> , Bio, Chem, & Phys	10,955	22	22.0	3.2	5,628	25	22.9	3.9	5,231	19	21.1	2.5
Bio, Chem, Phys	2,426	5	24.2	5.4	1,269	6	25.2	6.2	1,132	4	23.2	4.6
Gen Sci <sup>2</sup> , Bio, Chem (Min. Core)	23,938	48	19.8	1.0	9,564	43	20.2	1.2	14,271	52	19.6	1.0
Other comb of 3 years of Natural Science	685	1	19.3	0.5	378	2	20.1	1.1	301	1	18.2	-0.4
Less than 3 years of Natural Science	10,639	21	18.8	-	4,814	21	19.0	-	5,752	21	18.6	-
No Nat Sci course/grade information reported	1,582	3	20.5	-	821	4	20.5	-	617	2	19.9	-

<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	5,942	12	22.8	81	266,394	19	21.8	76
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	40,967	82	20.6	69	949,721	67	20.5	68
Less than 4 years of English	1,850	4	19.2	60	112,496	8	18.8	56
No English course/grade information reported	1,466	3	20.8	67	93,330	7	20.2	64
<b>MATHEMATICS COURSE PATTERN</b>								
Alg 1, Alg 2, Geom, Trig, & Calc	1,854	4	24.1	68	91,985	6	24.8	74
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	3,428	7	22.0	53	113,879	8	22.3	57
Alg 1, Alg 2, Geom, & Trig	3,949	8	20.1	33	116,105	8	20.4	38
Alg 1, Alg 2, Geom, & Other Adv Math	7,974	16	20.5	38	204,909	14	20.4	38
Other comb of 4 or more years of Math	8,790	18	23.6	64	342,493	24	23.9	66
Alg 1, Alg 2, & Geom (Min. Core)	17,436	35	17.3	10	251,813	18	17.8	14
Other comb of 3 or 3.5 years of Math	2,145	4	20.5	38	70,951	5	20.8	41
Less than 3 years of Math	3,131	6	16.3	7	131,252	9	17.4	14
No Math course/grade information reported	1,518	3	20.3	37	98,554	7	21.1	44
<b>SOCIAL SCIENCE COURSE PATTERN</b>								
US Hist, World Hist, Am Gov, & Other Hist	263	1	23.5	65	42,546	3	22.7	61
Other comb of 4 or more years Social Science	18,914	38	21.8	56	604,055	42	21.9	56
US Hist, World Hist, & Am Gov (Min. Core)	897	2	20.2	45	86,500	6	20.8	48
Other comb of 3 or 3.5 years of Social Science	22,893	46	20.9	49	404,731	28	21.3	52
Less than 3 years of Social Science	5,689	11	19.7	41	185,561	13	20.4	45
No Soc Sci course/grade information reported	1,569	3	21.4	52	98,548	7	21.1	50
<b>NATURAL SCIENCE COURSE PATTERN</b>								
Gen Sci <sup>1</sup> , Bio, Chem, & Phys	10,955	22	22.0	37	453,654	32	22.2	38
Bio, Chem, Phys	2,426	5	24.2	56	134,033	9	23.2	47
Gen Sci <sup>1</sup> , Bio, Chem (Min. Core)	23,938	48	19.8	18	435,183	31	20.1	20
Other comb of 3 years of Natural Science	685	1	19.3	16	40,179	3	20.1	22
Less than 3 years of Natural Science	10,639	21	18.8	13	259,142	18	18.7	13
No Nat Sci course/grade information reported	1,582	3	20.5	27	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	982	2	18.4	147	4	15.8	772	2	19.0
Architecture & Environmental Design	880	2	20.7	62	2	16.8	771	2	21.1
Business & Management	4,674	9	20.2	310	8	16.8	4,087	10	20.5
Business & Office	332	1	19.2	56	1	16.4	252	1	19.9
Marketing & Distribution	389	1	19.9	22	1	15.5	346	1	20.2
Communications & Comm. Technologies	1,353	3	21.6	67	2	16.9	1,209	3	21.9
Community & Personal Services	1,430	3	18.2	290	7	16.8	1,052	3	18.6
Computer & Information Sciences	1,154	2	20.7	139	3	17.8	944	2	21.1
Cross-Disciplinary Studies	60	0	24.4	1	0	16.0	52	0	24.7
Education	1,914	4	20.3	78	2	16.8	1,737	4	20.4
Teacher Education	1,418	3	19.8	62	2	16.4	1,275	3	20.0
Engineering	2,162	4	22.2	136	3	16.3	1,900	5	22.8
Engineering-Related Technologies	1,070	2	21.2	99	2	17.1	907	2	21.8
Foreign Languages	232	0	23.4	6	0	15.8	208	1	23.7
Health Sciences & Allied Health Fields	11,483	23	20.2	1,096	27	17.0	9,841	24	20.6
Human, Family & Consumer Science	638	1	18.7	132	3	17.3	453	1	19.2
Letters	314	1	24.3	9	0	20.6	282	1	24.5
Mathematics	255	1	23.2	9	0	18.9	223	1	23.5
Philosophy, Religion & Theology	339	1	22.7	9	0	18.7	306	1	23.0
Sciences (Biological & Physical)	2,152	4	23.1	43	1	17.0	1,973	5	23.3
Social Sciences	2,939	6	21.7	62	2	17.8	2,751	7	21.8
Trade & Industrial	531	1	18.3	260	6	17.2	232	1	19.7
Visual & Performing Arts	3,081	6	20.8	280	7	17.4	2,559	6	21.2
Undecided	6,857	14	20.8	605	15	16.6	5,507	14	21.3
No Response	3,586	7	20.6	146	4	15.8	1,008	2	21.7

<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	1,028	16.8	179	14.5	4	16.0	752	17.3	34	15.8	4	17.0	55	17.1
2-yr College Degree	3,098	16.9	667	14.6	11	16.1	2,157	17.7	94	16.2	29	15.9	140	16.9
Bachelors Degree	19,354	19.9	3,416	16.5	63	19.3	14,402	20.8	386	19.0	235	20.1	852	20.0
Graduate Study	7,377	22.6	1,104	18.4	24	22.0	5,572	23.5	141	21.4	134	23.1	402	22.5
Prof. Level Degree	13,916	21.9	3,232	18.2	38	22.4	9,019	23.2	373	21.0	409	24.6	845	22.3
Other	1,590	18.0	457	15.7	4	18.3	960	19.2	37	17.9	30	19.4	102	17.2
No Response	3,862	21.0	539	15.7	11	21.0	2,540	21.9	81	17.3	63	21.8	628	22.1

**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
UNIVERSITY OF TENNESSEE-KNOXVILLE	Tennessee	14,076	5,330	8,746	1	6	22	34	25	12	1
MIDDLE TENNESSEE STATE UNIVERSITY	Tennessee	12,297	4,027	8,270	2	11	33	32	17	5	0
UNIVERSITY OF TENNESSEE-CHATTANOOGA	Tennessee	6,911	1,634	5,277	2	11	32	32	18	5	0
UNIVERSITY OF MEMPHIS	Tennessee	5,952	2,038	3,914	4	20	34	25	13	4	0
TENNESSEE TECHNOLOGICAL UNIVERSITY	Tennessee	4,996	1,630	3,366	1	9	29	32	19	9	1
EAST TENNESSEE STATE UNIVERSITY	Tennessee	4,875	1,661	3,214	1	8	30	36	19	7	0
UNIVERSITY OF TENNESSEE-MARTIN	Tennessee	4,348	1,333	3,015	2	12	34	33	14	5	0
TENNESSEE STATE UNIVERSITY A.W. CAMPUS	Tennessee	3,965	992	2,973	6	31	42	17	4	1	0
VANDERBILT UNIVERSITY	Tennessee	3,486	743	2,743	1	7	17	24	25	22	4
AUSTIN PEAY STATE UNIVERSITY	Tennessee	3,485	1,270	2,215	2	12	36	32	14	4	0
BELMONT UNIVERSITY	Tennessee	2,284	612	1,672	1	6	21	32	26	13	1
CARSON-NEWMAN COLLEGE	Tennessee	1,773	383	1,390	1	8	29	35	19	7	0
PELLISSIPPI STATE TECHNICAL COMM COLL	Tennessee	1,636	604	1,032	2	13	37	30	15	3	0
WALTERS STATE COMMUNITY COLLEGE	Tennessee	1,499	666	833	2	14	41	32	10	1	0
SOUTHWEST TENNESSEE COMMUNITY COLLEGE	Tennessee	1,492	507	985	10	36	36	14	3	0	0
VOLUNTEER STATE COMMUNITY COLLEGE	Tennessee	1,438	581	857	2	17	44	28	8	2	0
ROANE STATE COMMUNITY COLLEGE	Tennessee	1,258	542	716	2	16	41	30	9	2	0
LIPSCOMB UNIVERSITY	Tennessee	1,185	322	863	2	6	23	32	25	12	1
CHATTANOOGA ST TECH COMM COLL	Tennessee	1,129	483	646	5	23	38	26	7	1	0
UNION UNIVERSITY	Tennessee	1,104	277	827	1	7	24	31	23	12	1
WESTERN KENTUCKY UNIVERSITY	Kentucky	1,083	254	829	1	10	29	34	20	6	0
JACKSON STATE COMM COLLEGE	Tennessee	1,079	441	638	3	21	43	24	7	1	0
COLUMBIA STATE COMMUNITY COLLEGE	Tennessee	1,069	491	578	3	17	41	31	6	2	0
MOTLOW STATE COMMUNITY COLLEGE	Tennessee	1,015	388	627	2	15	43	30	8	2	0
NORTHEAST STATE TECHNICAL COMM COLLEGE	Tennessee	986	440	546	1	16	40	33	8	2	0
TUSCULUM COLLEGE	Tennessee	969	171	798	1	11	33	37	15	4	0
CHRISTIAN BROTHERS UNIVERSITY	Tennessee	964	213	751	3	17	28	26	18	8	1
AUBURN UNIVERSITY	Alabama	947	241	706	1	3	11	29	35	20	2
MARYVILLE COLLEGE	Tennessee	927	194	733	1	5	23	33	27	10	1
LEE UNIVERSITY	Tennessee	885	292	593	1	8	22	37	24	9	0
All Other Institutions		47,048	11,141	35,907	2	13	26	26	19	12	2
<b>Total</b>		<b>136,161</b>	<b>39,901</b>	<b>96,260</b>	<b>2</b>	<b>12</b>	<b>29</b>	<b>29</b>	<b>18</b>	<b>9</b>	<b>1</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>7,900</b>	<b>770,529</b>	<b>24.8</b>	<b>21.4</b>	<b>7.6</b>	<b>7.3</b>	<b>23.6</b>	<b>20.9</b>
African Am./Black	1,023	86,049	20.0	16.6	7.2	6.5	19.7	16.6
Am. Indian/Alaska Native	27	5,148	23.2	18.9	7.3	6.7	22.1	18.5
Caucasian Am./White	5,592	464,177	25.5	22.5	7.6	7.4	24.2	21.8
Hispanic	187	71,060	23.5	18.3	7.6	7.1	22.7	18.5
Asian Am./Pacific Islander	304	37,359	26.5	23.1	8.0	7.9	25.3	22.6
Other/No Response	767	106,736	25.6	22.2	7.7	7.5	24.3	21.7
Males	3,419	327,613	24.6	20.9	7.3	7.0	23.3	20.2
Females	4,319	421,968	24.9	21.7	7.8	7.6	23.9	21.3
Missing	162	20,948	25.9	23.9	7.5	7.9	24.4	23.2



