

# ACT High School Profile Report

The Graduating Class of 2008  
Kentucky





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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

19% 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.** 31,728 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. 65% 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 4% of the cohort took less than three years of math courses. Of these students, 14% were college ready. 25% of the cohort reported taking the minimum core (Algebra I, Algebra II, and Geometry). 10% of these students were college ready. In comparison, 45% 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 11% of the cohort took less than three years of natural science courses. 13% of these students were college ready. In comparison, 27% 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 54% 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).

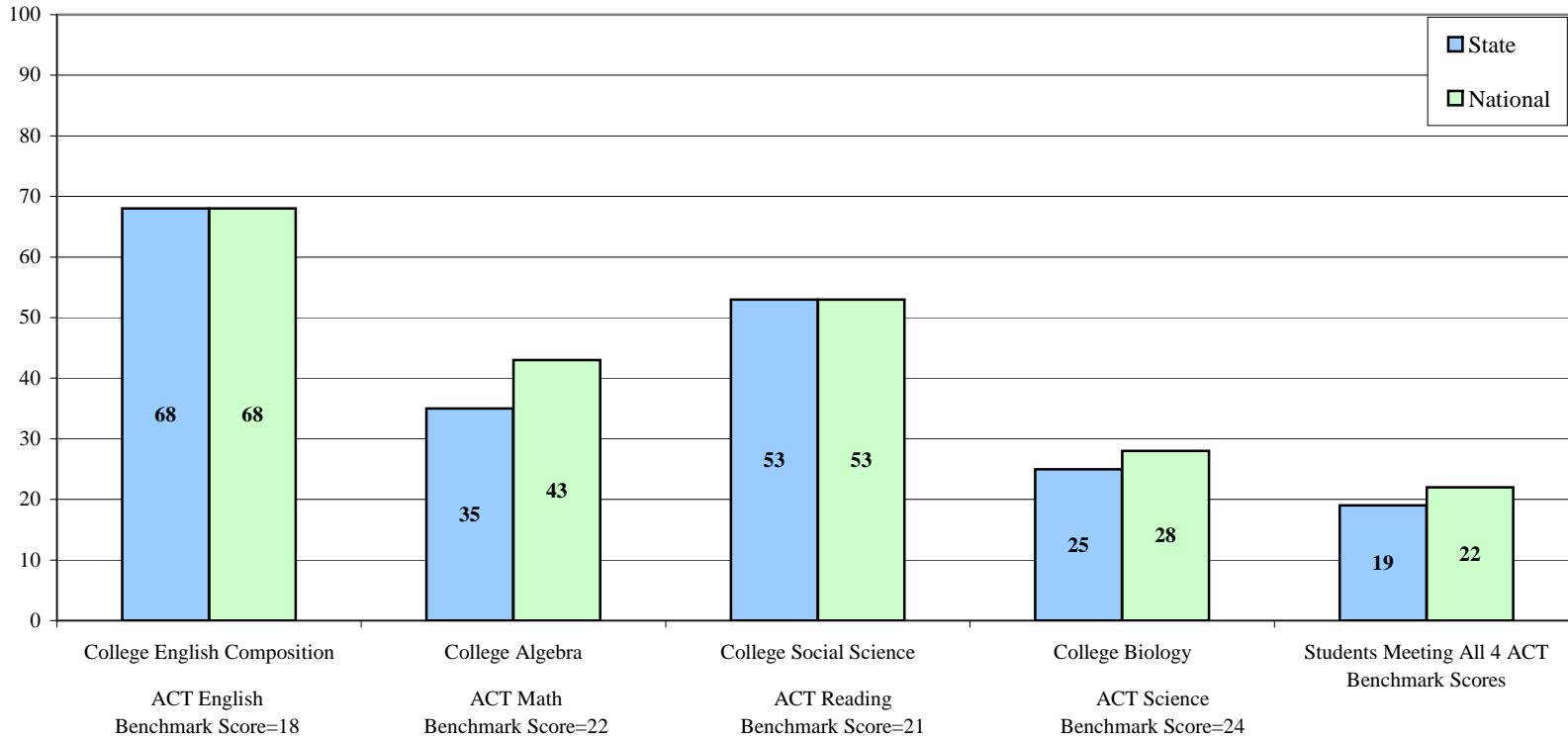
**PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS.** Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether among students with similar aspirations, academic performance is consistent across racial/ethnic 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	29,581	1,171,460	64	68	32	40	48	52	22	26	16	21
2005	29,943	1,186,251	65	68	32	41	48	51	22	26	16	21
2006	29,786	1,206,455	67	69	34	42	50	53	23	27	18	21
2007	30,929	1,300,599	67	69	35	43	50	53	24	28	18	23
<b>2008</b>	<b>31,728</b>	<b>1,421,941</b>	<b>68</b>	<b>68</b>	<b>35</b>	<b>43</b>	<b>53</b>	<b>53</b>	<b>25</b>	<b>28</b>	<b>19</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	29,581	1,171,460	19.8	20.4	19.7	20.7	20.9	21.3	20.4	20.9	20.3	20.9
2005	29,943	1,186,251	20.0	20.4	19.7	20.7	20.8	21.3	20.4	20.9	20.4	20.9
2006	29,786	1,206,455	20.2	20.6	19.9	20.8	21.1	21.4	20.5	20.9	20.6	21.1
2007	30,929	1,300,599	20.3	20.7	20.0	21.0	21.2	21.5	20.6	21.0	20.7	21.2
<b>2008</b>	<b>31,728</b>	<b>1,421,941</b>	<b>20.5</b>	<b>20.6</b>	<b>20.2</b>	<b>21.0</b>	<b>21.5</b>	<b>21.4</b>	<b>20.7</b>	<b>20.8</b>	<b>20.9</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	17,738	10,732	60	36	20.8	18.3	20.4	18.6	21.6	19.6	20.9	19.4	21.1	19.1
2005	18,114	10,358	60	35	20.8	18.4	20.4	18.6	21.6	19.5	20.9	19.4	21.1	19.1
2006	17,705	10,207	59	34	21.1	18.7	20.6	18.8	21.8	19.8	21.1	19.6	21.3	19.3
2007	17,449	10,463	56	34	21.1	18.8	20.7	18.9	21.9	20.0	21.2	19.6	21.4	19.4
<b>2008</b>	<b>20,486</b>	<b>10,081</b>	<b>65</b>	<b>32</b>	<b>21.4</b>	<b>18.8</b>	<b>20.8</b>	<b>18.9</b>	<b>22.3</b>	<b>20.1</b>	<b>21.3</b>	<b>19.6</b>	<b>21.6</b>	<b>19.5</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>29,581</b>	<b>100</b>	<b>20.3</b>	<b>29,943</b>	<b>100</b>	<b>20.4</b>	<b>29,786</b>	<b>100</b>	<b>20.6</b>	<b>30,929</b>	<b>100</b>	<b>20.7</b>	<b>31,728</b>	<b>100</b>	<b>20.9</b>
African American/Black	2,173	7	16.9	2,176	7	16.8	2,248	8	17.1	2,358	8	17.0	2,496	8	17.3
American Indian/Alaska Native	97	0	18.4	110	0	19.7	83	0	19.4	92	0	19.5	99	0	19.3
Caucasian American/White	25,033	85	20.6	25,327	85	20.6	24,611	83	20.9	24,830	80	21.0	26,499	84	21.2
Hispanic	307	1	18.9	324	1	19.2	398	1	19.5	416	1	19.1	455	1	19.9
Asian American/Pacific Islander	360	1	21.7	402	1	22.3	381	1	22.3	426	1	21.8	402	1	22.3
Other/No Response	1,611	5	20.5	1,604	5	20.4	2,065	7	20.7	2,807	9	21.2	1,777	6	21.4

# 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	48	100	44	100	207	100	48	100	3	100	36
35	359	100	123	100	212	99	87	100	52	100	35
34	349	99	190	99	378	99	119	100	96	100	34
33	340	98	250	99	494	97	192	99	181	100	33
32	356	97	243	98	570	96	183	99	256	99	32
31	472	95	227	97	861	94	233	98	458	98	31
30	627	94	402	97	1,109	91	416	97	583	97	30
29	805	92	543	95	856	88	434	96	721	95	29
28	775	89	877	94	1,062	85	557	95	877	93	28
27	823	87	974	91	1,061	82	922	93	996	90	27
26	1,160	84	1,213	88	1,128	79	966	90	1,277	87	26
25	1,551	81	1,537	84	1,246	75	2,009	87	1,461	83	25
24	1,582	76	1,560	79	1,684	71	1,841	81	1,768	78	24
23	1,642	71	1,563	74	2,202	66	2,162	75	2,021	72	23
22	2,047	66	1,387	69	1,667	59	2,985	68	2,280	66	22
21	2,654	59	1,804	65	2,169	54	2,357	59	2,608	59	21
20	2,365	51	1,644	59	2,220	47	3,649	51	2,643	51	20
19	1,933	43	2,125	54	2,408	40	3,148	40	2,669	42	19
18	1,799	37	2,854	47	1,429	32	2,394	30	2,646	34	18
17	1,795	32	3,097	38	1,686	28	1,606	22	2,216	26	17
16	1,524	26	4,101	29	1,819	22	1,713	17	1,907	19	16
15	1,850	21	3,104	16	1,514	17	1,022	12	1,666	13	15
14	1,211	15	1,310	6	1,332	12	859	8	1,149	7	14
13	959	12	387	2	1,141	8	639	6	719	4	13
12	736	9	138	1	664	4	542	4	361	1	12
11	727	6	19	1	343	2	330	2	95	1	11
10	581	4	10	1	176	1	190	1	14	1	10
9	346	2	1	1	51	1	79	1	4	1	9
8	203	1	0	1	19	1	31	1	1	1	8
7	85	1	0	1	11	1	13	1	0	1	7
6	22	1	1	1	4	1	2	1	0	1	6
5	2	1	0	1	4	1	0	1	0	1	5
4	0	1	0	1	1	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)	20.5 (5.9)		20.2 (4.9)		21.5 (5.9)		20.7 (4.6)		20.9 (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	920	100	224	100	813	100	888	100	1,027	100	136	100	145	100	18
17	1,046	97	637	99	1,097	97	1,360	97	1,054	97	354	100	101	100	17
16	1,343	94	1,559	97	1,595	94	2,519	93	1,305	93	429	98	915	99	16
15	1,110	90	2,140	92	1,850	89	2,206	85	1,421	89	791	97	927	96	15
14	1,624	86	1,753	86	1,708	83	2,377	78	1,862	85	2,224	95	2,236	93	14
13	2,200	81	2,378	80	2,735	78	1,298	71	2,348	79	2,000	88	1,915	86	13
12	2,114	74	4,007	73	2,708	69	2,857	66	2,598	72	2,726	81	3,102	80	12
11	3,031	67	3,508	60	3,327	61	3,584	57	2,736	63	4,193	73	3,222	71	11
10	3,691	58	4,543	49	3,635	50	3,138	46	3,444	55	6,018	59	5,378	60	10
9	3,503	46	3,025	35	3,906	39	2,682	36	2,617	44	4,795	41	4,707	43	9
8	2,985	35	3,210	25	3,495	26	2,577	28	4,597	36	3,556	25	3,381	29	8
7	2,365	26	1,973	15	2,212	15	2,025	20	4,028	21	1,445	14	2,419	18	7
6	2,272	18	1,162	9	1,428	8	1,675	13	1,871	8	1,450	10	1,115	10	6
5	1,650	11	819	5	650	4	1,605	8	519	3	896	5	1,102	7	5
4	1,241	6	575	2	357	2	670	3	207	1	351	2	389	3	4
3	486	2	182	1	156	1	186	1	69	1	260	1	488	2	3
2	139	1	30	1	46	1	79	1	22	1	53	1	110	1	2
1	8	1	3	1	10	1	2	1	3	1	51	1	76	1	1
Avg (SD)	10.1 (3.7)		10.7 (3.1)		10.8 (3.3)		11.0 (3.7)		10.5 (3.4)		10.1 (2.8)		10.0 (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)	24	24	26	24	24
Q2 (50th Percentile)	20	19	21	20	20
Q1 (25th Percentile)	16	16	17	18	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>31,728</b>	<b>65</b>	<b>21.6</b>	<b>19.5</b>
	African Am./Black	2,496	54	18.1	16.4
	Am. Indian/Alaska Native	99	62	20.4	17.6
	Caucasian Am./White	26,499	66	21.8	19.9
	Hispanic	455	62	20.9	18.3
	Asian Am./Pacific Islander	402	71	23.2	20.3
	Other/No Response	1,777	59	21.8	20.0
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>	20.5	20.2	21.5	20.7	20.9
	African Am./Black	16.4	17.1	17.6	17.7	17.3
	Am. Indian/Alaska Native	18.6	18.3	20.2	19.7	19.3
	Caucasian Am./White	20.9	20.4	21.9	21.0	21.2
	Hispanic	19.1	19.4	20.6	19.8	19.9
	Asian Am./Pacific Islander	21.7	23.2	22.1	21.9	22.3
	Other/No Response	21.0	20.8	22.1	21.0	21.4
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	1,096	3	607	2	1,291	4	446	1
	28 to 32	3,035	10	2,292	7	4,458	14	1,823	6
	24 to 27	5,116	16	5,284	17	5,119	16	5,738	18
	20 to 23	8,708	27	6,398	20	8,258	26	11,153	35
	16 to 19	7,051	22	12,177	38	7,342	23	8,861	28
	13 to 15	4,020	13	4,801	15	3,987	13	2,520	8
	01 to 12	2,702	9	169	1	1,273	4	1,187	4
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	14,107	44	20.3	20.9	21.5	21.3	21.1
	Females	17,306	55	20.7	19.6	21.5	20.2	20.6
	Missing	315	1	21.9	21.3	22.9	21.7	22.1
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	67	41	53	30	23
	Females	70	30	53	21	16
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	20,486	74	21.4	40	20.8	59	22.3	29	21.3	22	21.6
	Non-Core	10,081	57	18.8	25	18.9	43	20.1	18	19.6	12	19.5
	Missing	1,161	63	19.9	34	19.9	49	21.2	24	20.3	18	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	29,677	69	20.6	29,549	36	20.3	23,136	57	22.0	27,257	27	21.0
	Non-Core	1,158	59	19.1	1,157	14	17.4	7,572	43	20.2	3,426	13	18.8
	Missing	893	67	20.3	1,022	34	20.0	1,020	50	21.4	1,045	25	20.5
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

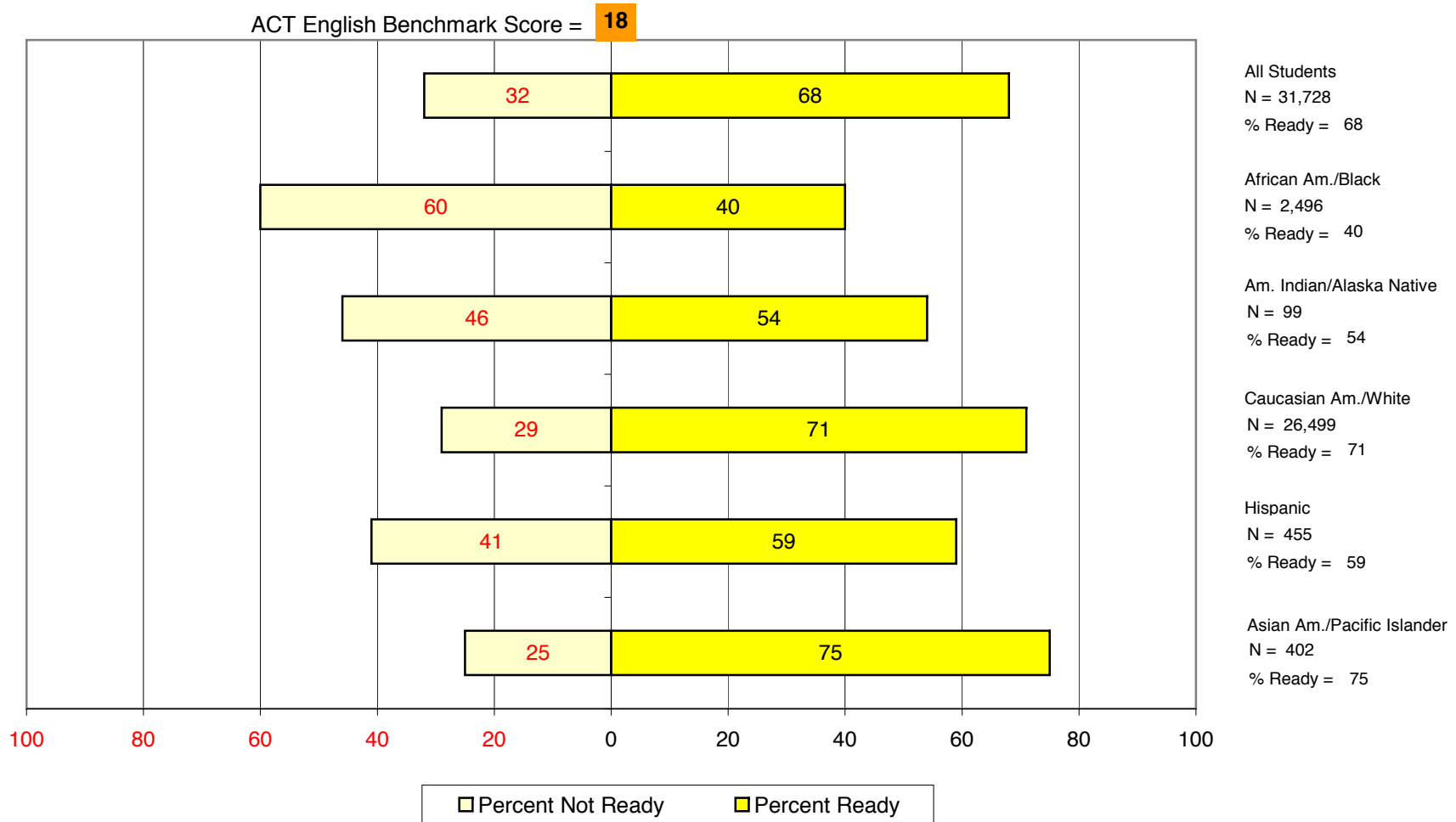
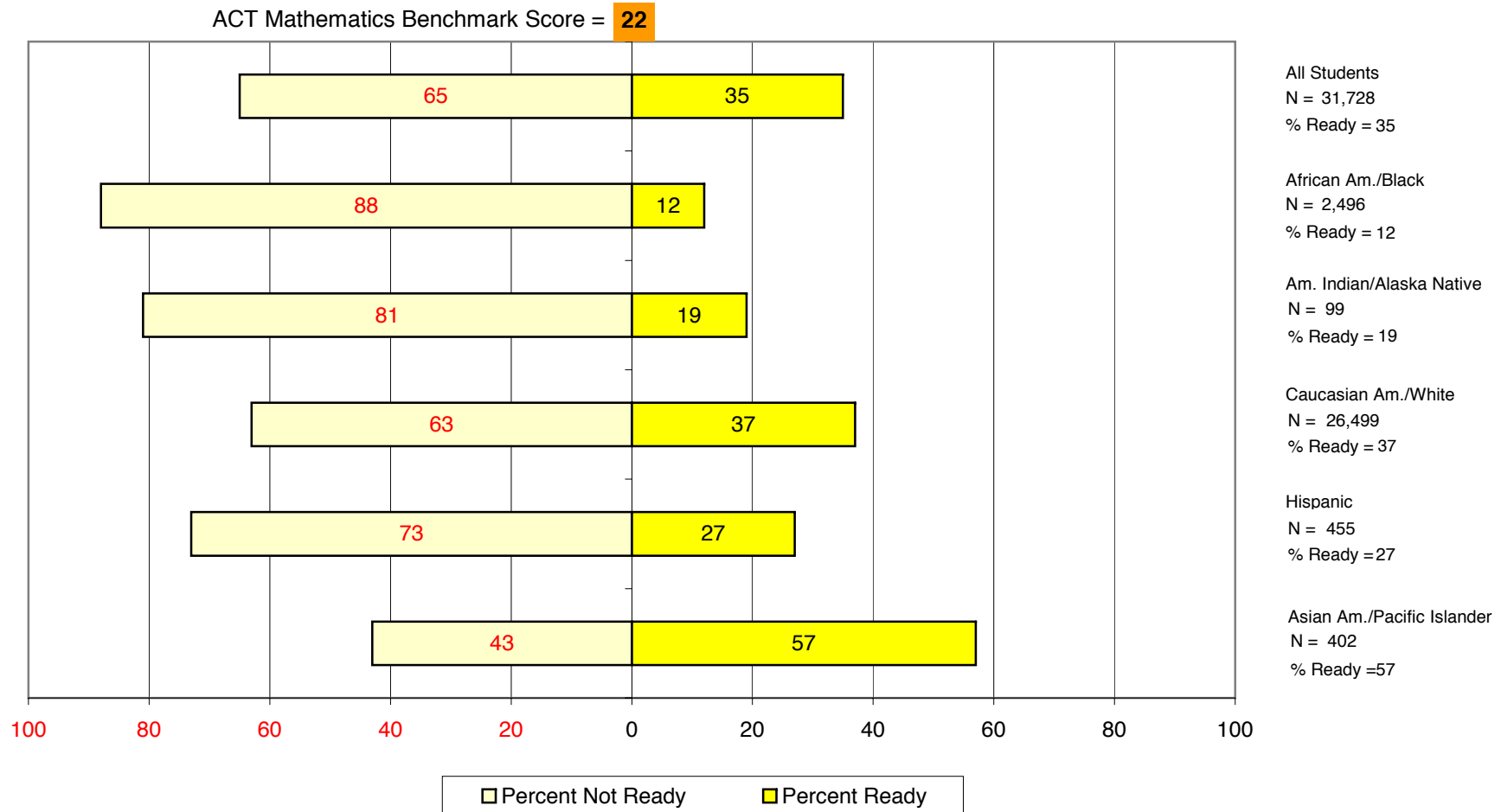


Figure 3.2. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS



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

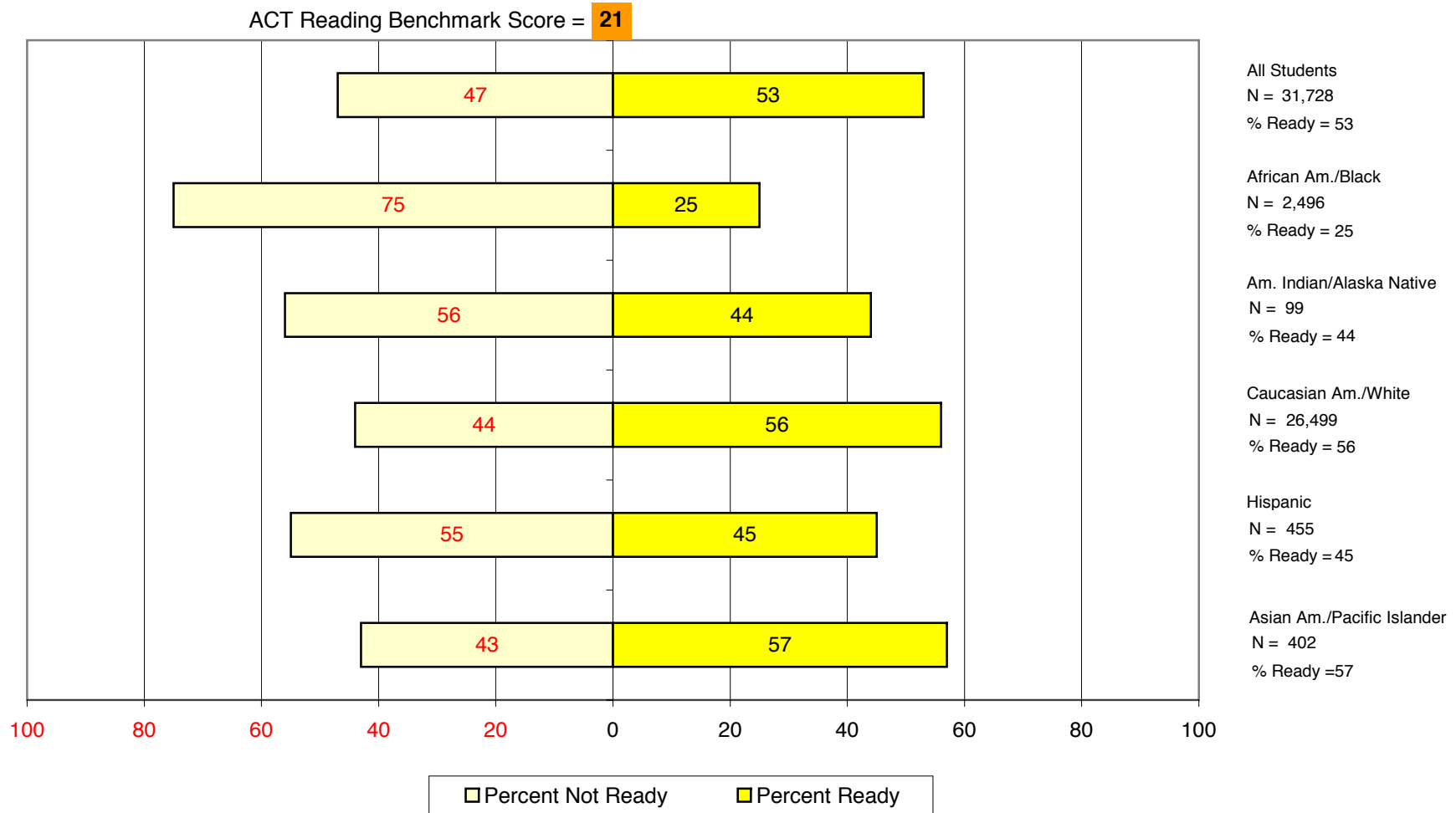


Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

ACT Science Benchmark Score = 24

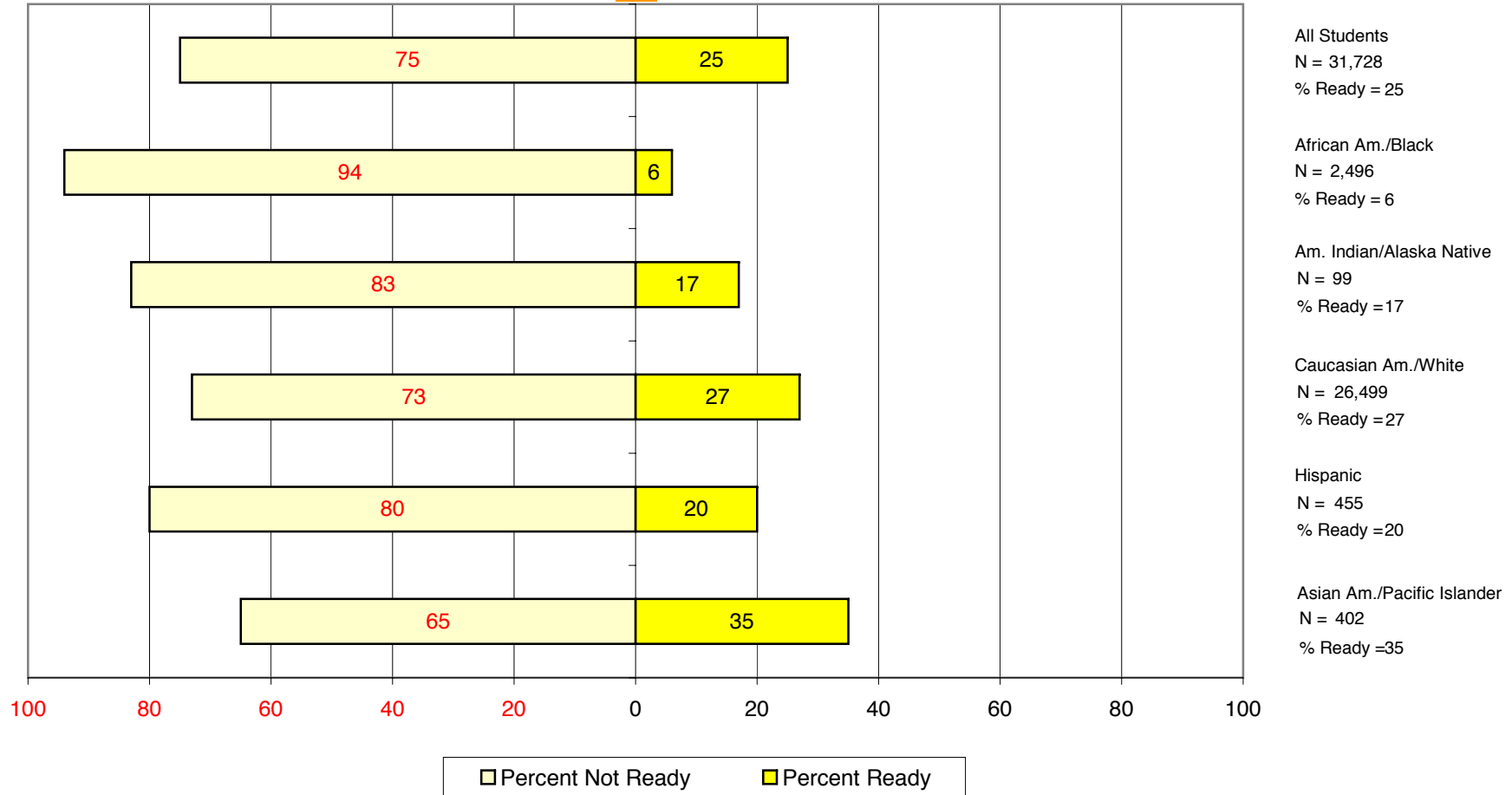
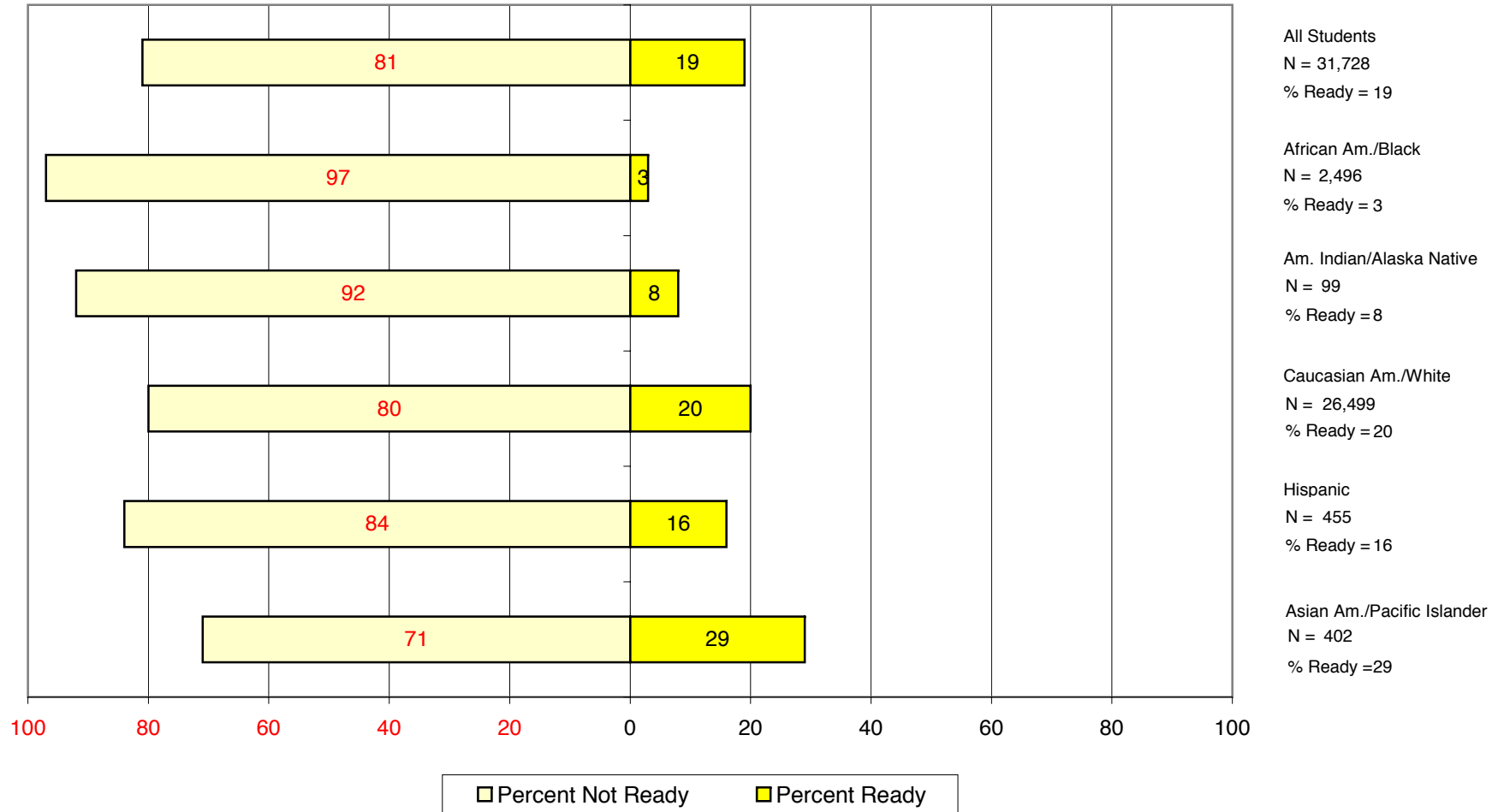


Figure 3.5. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR



**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	5,197	16	21.9	2.9	2,069	15	21.5	2.8	3,094	18	22.1	2.9
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	24,480	77	20.3	1.3	10,981	78	20.1	1.4	13,354	77	20.5	1.3
Less than 4 years of English	1,167	4	19.0	-	599	4	18.7	-	531	3	19.2	-
No English course/grade information reported	884	3	20.4	-	458	3	19.4	-	327	2	20.9	-
<b>MATHEMATICS COURSE PATTERN</b>												
Alg 1, Alg 2, Geom, Trig, & Calc	940	3	24.9	7.5	489	3	25.7	8.1	440	3	24.0	7.0
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	1,417	4	21.6	4.2	593	4	22.2	4.6	820	5	21.1	4.1
Alg 1, Alg 2, Geom, & Trig	1,041	3	19.8	2.4	446	3	20.5	2.9	581	3	19.2	2.2
Alg 1, Alg 2, Geom, & Other Adv Math	8,535	27	19.6	2.2	3,265	23	20.2	2.6	5,220	30	19.2	2.2
Other comb of 4 or more years of Math	7,954	25	23.3	5.9	3,876	27	24.2	6.6	4,029	23	22.4	5.4
Alg 1, Alg 2, & Geom (Min. Core)	7,779	25	17.3	-0.1	3,360	24	17.7	0.1	4,367	25	16.9	-0.1
Other comb of 3 or 3.5 years of Math	1,883	6	20.4	3.0	940	7	20.8	3.2	930	5	20.0	3.0
Less than 3 years of Math	1,238	4	17.4	-	654	5	17.6	-	565	3	17.0	-
No Math course/grade information reported	941	3	20.2	-	484	3	20.0	-	354	2	19.7	-
<b>SOCIAL SCIENCE COURSE PATTERN</b>												
US Hist, World Hist, Am Gov, & Other Hist	721	2	23.0	2.8	356	3	23.0	2.7	361	2	23.0	3.0
Other comb of 4 or more years Social Science	9,848	31	22.3	2.1	4,275	30	22.2	1.9	5,505	32	22.3	2.3
US Hist, World Hist, & Am Gov (Min. Core)	3,277	10	21.3	1.1	1,451	10	21.3	1.0	1,800	10	21.4	1.4
Other comb of 3 or 3.5 years of Social Science	9,290	29	21.8	1.6	3,957	28	21.9	1.6	5,287	31	21.8	1.8
Less than 3 years of Social Science	7,633	24	20.2	-	3,566	25	20.3	-	3,998	23	20.0	-
No Soc Sci course/grade information reported	959	3	21.6	-	502	4	21.1	-	355	2	21.7	-
<b>NATURAL SCIENCE COURSE PATTERN</b>												
Gen Sci <sup>2</sup> , Bio, Chem, & Phys	9,411	30	21.8	3.0	4,657	33	22.7	3.6	4,685	27	21.0	2.5
Bio, Chem, Phys	2,073	7	22.6	3.8	912	6	23.5	4.4	1,144	7	21.9	3.4
Gen Sci <sup>2</sup> , Bio, Chem (Min. Core)	14,939	47	20.3	1.5	6,012	43	20.7	1.6	8,842	51	20.0	1.5
Other comb of 3 years of Natural Science	834	3	19.9	1.1	430	3	20.5	1.4	397	2	19.3	0.8
Less than 3 years of Natural Science	3,506	11	18.8	-	1,592	11	19.1	-	1,881	11	18.5	-
No Nat Sci course/grade information reported	965	3	20.6	-	504	4	20.6	-	357	2	20.1	-

<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	5,197	16	21.9	76	266,394	19	21.8	76
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	24,480	77	20.3	67	949,721	67	20.5	68
Less than 4 years of English	1,167	4	19.0	59	112,496	8	18.8	56
No English course/grade information reported	884	3	20.4	67	93,330	7	20.2	64
<b>MATHEMATICS COURSE PATTERN</b>								
Alg 1, Alg 2, Geom, Trig, & Calc	940	3	24.9	73	91,985	6	24.8	74
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	1,417	4	21.6	49	113,879	8	22.3	57
Alg 1, Alg 2, Geom, & Trig	1,041	3	19.8	31	116,105	8	20.4	38
Alg 1, Alg 2, Geom, & Other Adv Math	8,535	27	19.6	30	204,909	14	20.4	38
Other comb of 4 or more years of Math	7,954	25	23.3	61	342,493	24	23.9	66
Alg 1, Alg 2, & Geom (Min. Core)	7,779	25	17.3	10	251,813	18	17.8	14
Other comb of 3 or 3.5 years of Math	1,883	6	20.4	37	70,951	5	20.8	41
Less than 3 years of Math	1,238	4	17.4	14	131,252	9	17.4	14
No Math course/grade information reported	941	3	20.2	35	98,554	7	21.1	44
<b>SOCIAL SCIENCE COURSE PATTERN</b>								
US Hist, World Hist, Am Gov, & Other Hist	721	2	23.0	64	42,546	3	22.7	61
Other comb of 4 or more years Social Science	9,848	31	22.3	59	604,055	42	21.9	56
US Hist, World Hist, & Am Gov (Min. Core)	3,277	10	21.3	52	86,500	6	20.8	48
Other comb of 3 or 3.5 years of Social Science	9,290	29	21.8	56	404,731	28	21.3	52
Less than 3 years of Social Science	7,633	24	20.2	43	185,561	13	20.4	45
No Soc Sci course/grade information reported	959	3	21.6	52	98,548	7	21.1	50
<b>NATURAL SCIENCE COURSE PATTERN</b>								
Gen Sci <sup>1</sup> , Bio, Chem, & Phys	9,411	30	21.8	34	453,654	32	22.2	38
Bio, Chem, Phys	2,073	7	22.6	40	134,033	9	23.2	47
Gen Sci <sup>1</sup> , Bio, Chem (Min. Core)	14,939	47	20.3	21	435,183	31	20.1	20
Other comb of 3 years of Natural Science	834	3	19.9	20	40,179	3	20.1	22
Less than 3 years of Natural Science	3,506	11	18.8	13	259,142	18	18.7	13
No Nat Sci course/grade information reported	965	3	20.6	25	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	728	2	19.0	109	5	16.4	586	2	19.6
Architecture & Environmental Design	527	2	20.4	47	2	16.9	451	2	20.8
Business & Management	2,568	8	20.6	138	6	17.4	2,294	9	20.8
Business & Office	217	1	18.7	33	1	17.1	167	1	19.2
Marketing & Distribution	211	1	20.2	13	1	16.7	189	1	20.4
Communications & Comm. Technologies	803	3	21.8	27	1	16.9	727	3	22.0
Community & Personal Services	939	3	18.5	146	6	16.8	743	3	18.9
Computer & Information Sciences	715	2	21.4	53	2	17.6	612	2	21.7
Cross-Disciplinary Studies	33	0	23.2	2	0	17.5	29	0	23.6
Education	1,402	4	20.3	32	1	16.9	1,294	5	20.5
Teacher Education	1,143	4	19.9	22	1	16.3	1,062	4	20.1
Engineering	1,247	4	23.0	73	3	16.8	1,123	4	23.4
Engineering-Related Technologies	601	2	21.9	75	3	16.9	489	2	22.7
Foreign Languages	153	0	23.6	3	0	13.7	140	1	23.8
Health Sciences & Allied Health Fields	7,032	22	20.4	663	28	17.4	6,092	23	20.8
Human, Family & Consumer Science	357	1	18.8	63	3	16.9	275	1	19.3
Letters	206	1	24.0	6	0	18.2	190	1	24.2
Mathematics	181	1	24.0	3	0	15.7	169	1	24.2
Philosophy, Religion & Theology	177	1	21.7	3	0	20.7	161	1	21.8
Sciences (Biological & Physical)	1,314	4	23.4	10	0	17.1	1,247	5	23.5
Social Sciences	1,890	6	22.1	26	1	17.9	1,802	7	22.1
Trade & Industrial	420	1	17.5	251	11	16.9	149	1	18.3
Visual & Performing Arts	1,619	5	21.2	118	5	17.6	1,407	5	21.6
Undecided	5,146	16	20.9	375	16	16.7	4,342	16	21.3
No Response	2,099	7	20.9	71	3	15.3	765	3	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	531	16.7	25	15.6	3	15.3	481	16.7	4	15.5	0	.	18	18.2
2-yr College Degree	1,831	17.1	138	14.8	5	15.8	1,595	17.3	21	16.1	9	17.6	63	16.4
Bachelors Degree	12,317	19.8	954	16.6	34	17.9	10,518	20.2	160	19.0	109	19.7	542	19.6
Graduate Study	5,358	22.8	356	18.5	20	22.3	4,587	23.1	70	22.0	56	22.1	269	22.8
Prof. Level Degree	8,830	22.4	801	18.5	28	21.0	7,122	22.8	161	21.0	193	24.3	525	22.8
Other	873	18.4	97	15.6	3	14.7	687	18.9	12	16.6	13	19.6	61	18.4
No Response	1,988	21.2	125	16.7	6	16.3	1,509	21.4	27	18.6	22	21.9	299	22.5

**Table 4.3. Students' Score Report Preferences at Time of Testing**

Name	State	Number of Students			Percent of Students in College Readiness Standards Ranges						
		Total	1st Choice	2nd-6th Choice	01-12	13-15	16-19	20-23	24-27	28-32	33-36
UNIVERSITY OF KENTUCKY	Kentucky	12,346	4,323	8,023	1	6	25	33	22	12	1
UNIVERSITY OF LOUISVILLE	Kentucky	9,268	3,112	6,156	1	9	26	32	20	11	1
WESTERN KENTUCKY UNIVERSITY	Kentucky	7,813	2,412	5,401	2	10	31	33	17	8	0
EASTERN KENTUCKY UNIVERSITY	Kentucky	6,534	2,046	4,488	1	12	35	33	15	4	0
MURRAY STATE UNIVERSITY	Kentucky	3,385	1,087	2,298	1	8	30	34	18	8	0
MOREHEAD STATE UNIVERSITY	Kentucky	3,213	1,004	2,209	2	13	35	31	15	5	0
NORTHERN KENTUCKY UNIVERSITY	Kentucky	2,950	1,104	1,846	1	10	31	35	17	6	0
BELLARMINE UNIVERSITY	Kentucky	1,716	372	1,344	1	5	20	36	25	13	1
GEORGETOWN COLLEGE	Kentucky	1,687	304	1,383	1	7	25	34	22	11	1
CAMPBELLSVILLE UNIVERSITY	Kentucky	1,323	384	939	2	13	34	30	15	6	0
TRANSYLVANIA UNIVERSITY	Kentucky	1,288	201	1,087	0	3	13	27	31	24	3
BEREA COLLEGE	Kentucky	1,233	392	841	1	12	36	30	17	5	0
CENTRE COLLEGE	Kentucky	1,121	251	870	0	2	8	22	32	31	4
BLUEGRASS COMMUNITY & TECHNICAL COLLEGE	Kentucky	927	340	587	2	18	40	29	9	1	0
KENTUCKY STATE UNIVERSITY	Kentucky	895	178	717	7	28	40	19	5	1	0
SOMERSET COMMUNITY COLLEGE	Kentucky	792	348	444	2	18	47	24	6	2	0
UNIVERSITY OF THE CUMBERLANDS	Kentucky	770	195	575	1	11	37	30	16	5	0
JEFFERSON COMM & TECH COLL-DOWNTOWN	Kentucky	758	193	565	6	23	39	24	7	1	0
ELIZABETHTOWN COMM AND TECH COLLEGE	Kentucky	746	351	395	2	16	40	31	8	2	0
LINDSEY WILSON COLLEGE	Kentucky	722	172	550	2	16	41	27	11	3	0
SULLIVAN UNIVERSITY	Kentucky	703	174	529	4	18	41	26	10	1	0
UNIVERSITY OF CINCINNATI	Ohio	689	148	541	1	8	20	31	23	15	2
KENTUCKY WESLEYAN COLLEGE	Kentucky	616	113	503	1	10	34	35	16	4	0
ALICE LLOYD COLLEGE	Kentucky	605	198	407	2	17	45	25	9	1	0
WEST KENTUCKY COMM & TECHNICAL COLLEGE	Kentucky	600	252	348	2	13	40	32	10	3	0
THOMAS MORE COLLEGE	Kentucky	575	112	463	1	9	29	34	17	9	1
NCAA ELIGIBILITY CENTER	Indiana	545	224	321	1	8	28	35	18	8	1
PIKEVILLE COLLEGE	Kentucky	534	115	419	2	17	37	28	11	3	0
ASBURY COLLEGE	Kentucky	480	155	325	0	7	23	30	24	14	1
UNION COLLEGE	Kentucky	455	104	351	1	21	40	26	10	2	0
All Other Institutions		23,085	5,629	17,456	2	12	27	26	18	13	2
<b>Total</b>		<b>88,374</b>	<b>25,993</b>	<b>62,381</b>	<b>1</b>	<b>10</b>	<b>29</b>	<b>30</b>	<b>18</b>	<b>10</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>5,041</b>	<b>770,529</b>	<b>23.7</b>	<b>21.4</b>	<b>7.3</b>	<b>7.3</b>	<b>22.6</b>	<b>20.9</b>
African Am./Black	309	86,049	18.5	16.6	6.8	6.5	18.3	16.6
Am. Indian/Alaska Native	18	5,148	23.7	18.9	7.4	6.7	22.7	18.5
Caucasian Am./White	4,034	464,177	24.1	22.5	7.3	7.4	22.9	21.8
Hispanic	94	71,060	22.3	18.3	7.5	7.1	21.7	18.5
Asian Am./Pacific Islander	120	37,359	25.5	23.1	8.1	7.9	24.6	22.6
Other/No Response	466	106,736	23.9	22.2	7.4	7.5	22.8	21.7
Males	2,164	327,613	23.8	20.9	7.1	7.0	22.4	20.2
Females	2,790	421,968	23.7	21.7	7.5	7.6	22.8	21.3
Missing	87	20,948	24.3	23.9	7.2	7.9	23.0	23.2



