

ACT High School Profile Report

The Graduating Class of 2008
Missouri



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This report provides information about the performance of your 2008 graduating seniors who took the ACT as sophomores, juniors, or seniors; and self-reported at the time of testing that they were scheduled to graduate in 2008 and tested under standard time conditions.

This report focuses on :

Performance - student test performance in the context of college readiness

Access - number of your graduates exposed to college entrance testing and the percent of race/ethnicity participation

Course Selection - percent of students pursuing a core curriculum

Course Rigor - impact of rigorous coursework on achievement

College Readiness - percent of students meeting ACT College Readiness Benchmark Scores in each content area

Awareness - extent to which student aspirations match performance

Articulation - colleges and universities to which your students send test results

Each year, the graduating class data for a school, district, state, and the nation represents a different cohort of students. ACT encourages educators to focus on trends (3, 5, 10 years), not year-to-year changes. Such changes can represent normal – even expected – fluctuations. On the other hand, trend lines offer more insight into what is happening in a school, district, state, or the nation.

Further, ACT encourages educators to measure student performance in the context of college readiness measures. The focus should be on the number and percentage of students meeting or exceeding ACT's College Readiness Benchmark Scores, a measure that is much more meaningful and understandable than an average composite score for a group of students.

The ACT is a curriculum-based measure of college readiness. ACT components include:

- Tests of academic achievement in English, math, reading, science, and writing (optional)
- High school grade and course information
- Student Profile Section
- Career Interest Inventory

The ACT:

Every few years, ACT conducts the **ACT National Curriculum Survey** to ensure its curriculum-based assessment tools accurately measure the skills high school teachers teach and instructors of entry-level college courses expect. The ACT is the only college readiness test designed to reflect the results of such a survey.

ACT's **College Readiness Standards** are sets of statements intended to help students, parents and educators understand the meaning of test scores. The standards relate test scores to the types of skills needed for success in high school and beyond. They serve as a direct link between what students have learned and what they are ready to do next. The ACT is the only college readiness test for which scores can be tied directly to standards.

Only the ACT reports **College Readiness Benchmark Scores** – A benchmark score is the minimum score needed on an ACT subject-area test to indicate a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in the corresponding credit-bearing college courses, which include English Composition, Algebra, Social Science and Biology. These scores were empirically derived based on the actual performance of students in college. The College Readiness Benchmark Scores are:

College Course/Course Area	ACT Test	Benchmark Score
English Composition	English	18
Algebra	Mathematics	22
Social Sciences	Reading	21
Biology	Science	24

For more information, go to www.act.org

How to Improve Scores and Increase College Readiness

24% 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. 47,240 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. 58% of the students in the cohort reported taking courses that would be considered 'Core or More' (Table 1.4).

MAKING SURE STUDENTS ARE TAKING THE RIGHT KINDS OF COURSES. Table 3.2 reports 10% of the cohort took less than three years of math courses. Of these students, 12% were college ready. 16% of the cohort reported taking the minimum core (Algebra I, Algebra II, and Geometry). 14% of these students were college ready. In comparison, 55% 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 23% of the cohort took less than three years of natural science courses. 16% of these students were college ready. In comparison, 37% 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 47% of the cohort fall into the lowest three Mathematics score ranges. To increase these students' achievement, identify the standards they should focus on next by accessing ACT's College Readiness Standards at www.act.org/standard.

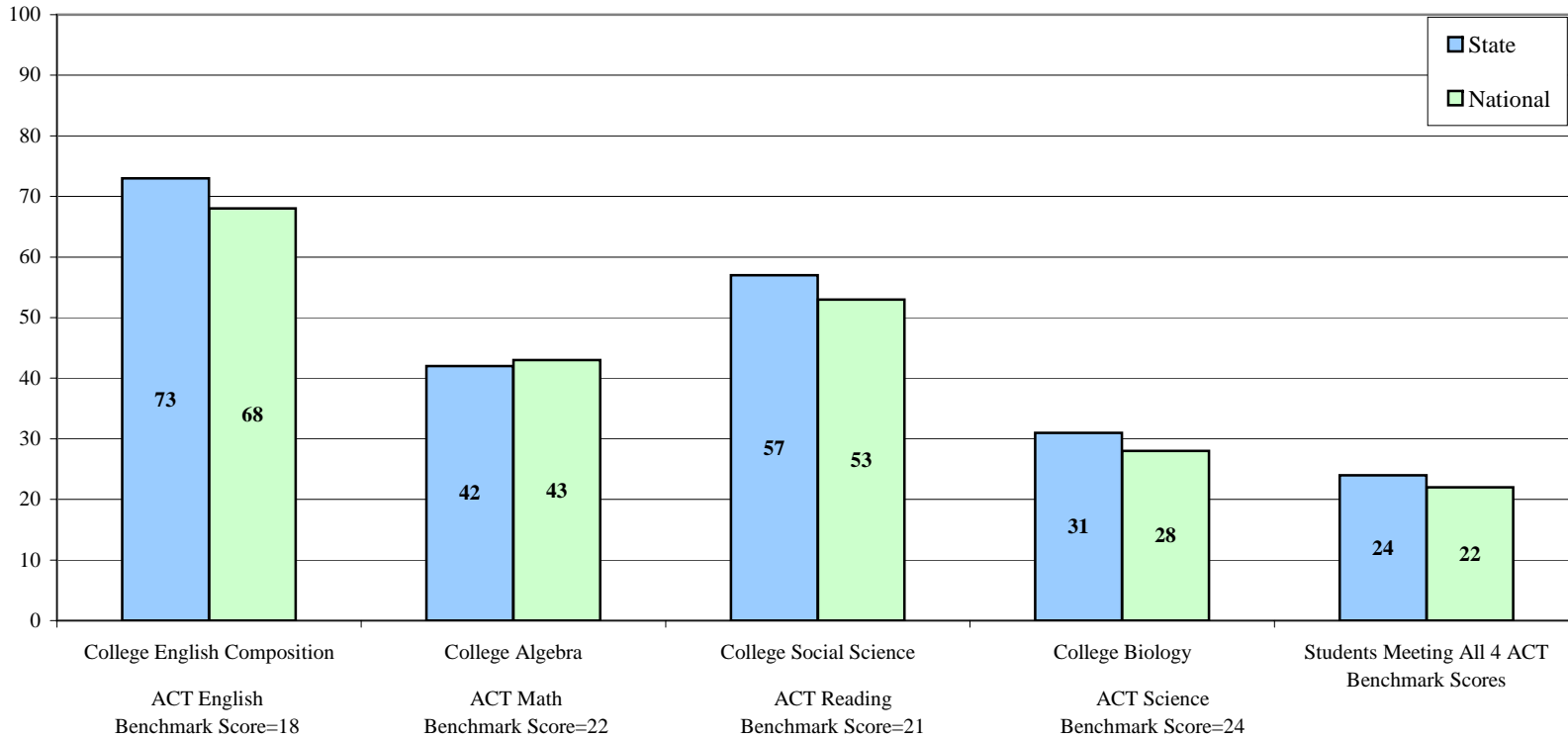
PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS. Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether among students with similar aspirations, academic performance is consistent across racial/ethnic groups.

For more information on interpreting data in this report, or to learn how ACT can help your students improve their readiness for college and the workplace, contact your regional office at 847-634-2560.

Section I

Executive Summary

Figure 1.1. Percent of ACT-Tested Students Ready for College-Level Coursework



A benchmark score is the minimum score needed on an ACT subject-area test to indicate a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in the corresponding credit-bearing college course.

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

Grad Year	Number of Students Tested		Percent Meeting Benchmarks									
			English		Mathematics		Reading		Science		Meeting All Four	
	State	National	State	National	State	National	State	National	State	National	State	National
2004	42,862	1,171,460	74	68	42	40	56	52	30	26	23	21
2005	42,705	1,186,251	74	68	42	41	56	51	30	26	23	21
2006	42,885	1,206,455	74	69	43	42	57	53	30	27	24	21
2007	45,354	1,300,599	74	69	42	43	56	53	31	28	25	23
2008	47,240	1,421,941	73	68	42	43	57	53	31	28	24	22

Table 1.2. Five Year Trends—Average ACT Scores

Grad Year	Number of Students Tested		Average ACT Scores									
			English		Mathematics		Reading		Science		Composite	
	State	National	State	National	State	National	State	National	State	National	State	National
2004	42,862	1,171,460	21.4	20.4	20.9	20.7	22.0	21.3	21.4	20.9	21.5	20.9
2005	42,705	1,186,251	21.4	20.4	20.9	20.7	21.9	21.3	21.5	20.9	21.6	20.9
2006	42,885	1,206,455	21.5	20.6	21.0	20.8	22.0	21.4	21.5	20.9	21.6	21.1
2007	45,354	1,300,599	21.5	20.7	21.0	21.0	22.1	21.5	21.5	21.0	21.6	21.2
2008	47,240	1,421,941	21.4	20.6	21.0	21.0	22.0	21.4	21.4	20.8	21.6	21.1

Table 1.3. Five Year Trends—Average ACT Scores Nationwide

Grad Year	Number of Students Tested	Average ACT Scores				
		English	Mathematics	Reading	Science	Composite
2004	1,171,460	20.4	20.7	21.3	20.9	20.9
2005	1,186,251	20.4	20.7	21.3	20.9	20.9
2006	1,206,455	20.6	20.8	21.4	20.9	21.1
2007	1,300,599	20.7	21.0	21.5	21.0	21.2
2008	1,421,941	20.6	21.0	21.4	20.8	21.1

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

Grad Year	Number of Students Tested		Percent ¹		Average ACT Scores									
	Core or More	Less than Core	Core or More	Less than Core	English		Mathematics		Reading		Science		Composite	
					Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core
2004	24,739	15,764	58	37	22.6	19.3	22.1	19.0	23.0	20.3	22.4	19.9	22.6	19.7
2005	24,396	15,499	57	36	22.7	19.3	22.1	19.0	23.0	20.2	22.4	20.0	22.7	19.8
2006	22,852	15,689	53	37	22.9	19.7	22.2	19.4	23.2	20.6	22.5	20.2	22.8	20.1
2007	21,252	16,305	47	36	22.9	19.9	22.3	19.6	23.3	20.9	22.6	20.4	22.9	20.3
2008	27,219	15,728	58	33	22.9	19.7	22.2	19.4	23.2	20.7	22.5	20.1	22.8	20.1

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

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

	2004			2005			2006			2007			2008		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
All Students	42,862	100	21.5	42,705	100	21.6	42,885	100	21.6	45,354	100	21.6	47,240	100	21.6
African American/Black	3,850	9	17.5	4,196	10	17.4	4,201	10	17.4	4,563	10	17.3	5,190	11	17.2
American Indian/Alaska Native	235	1	21.2	224	1	20.1	237	1	20.2	254	1	20.5	278	1	20.1
Caucasian American/White	34,531	81	22.0	33,910	79	22.1	32,900	77	22.2	32,801	72	22.3	35,534	75	22.3
Hispanic	719	2	20.2	770	2	20.6	801	2	20.8	926	2	20.2	1,056	2	20.4
Asian American/Pacific Islander	780	2	22.7	744	2	23.2	818	2	23.0	807	2	23.0	873	2	23.0
Other/No Response	2,747	6	21.4	2,861	7	21.6	3,928	9	21.1	6,003	13	21.4	4,309	9	21.1

Section II

Academic Achievement

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

ACT Scale Score	English		Mathematics		Reading		Science		Composite		ACT Scale Score
	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	
36	97	100	97	100	326	100	141	100	13	100	36
35	718	100	246	100	485	99	253	100	129	100	35
34	880	98	385	99	709	98	287	99	249	100	34
33	738	96	526	98	950	97	374	99	433	99	33
32	751	95	497	97	1,075	95	465	98	675	98	32
31	852	93	525	96	1,369	92	491	97	1,070	97	31
30	1,169	91	777	95	1,649	90	767	96	890	95	30
29	1,216	89	1,032	94	1,507	86	691	94	1,126	93	29
28	1,479	86	1,539	91	1,660	83	1,102	93	1,588	90	28
27	1,416	83	1,793	88	1,704	79	1,595	90	1,865	87	27
26	1,989	80	2,156	84	1,806	76	1,855	87	2,191	83	26
25	2,656	76	2,581	80	2,053	72	3,557	83	2,537	78	25
24	2,596	70	2,670	74	2,648	68	2,974	75	2,954	73	24
23	2,560	65	2,605	69	3,224	62	3,344	69	3,251	67	23
22	3,311	60	2,428	63	2,450	55	4,566	62	3,574	60	22
21	3,817	53	2,861	58	3,189	50	3,617	52	3,845	52	21
20	3,452	44	2,500	52	3,072	43	5,020	45	3,652	44	20
19	2,606	37	2,966	47	3,168	37	4,029	34	3,407	36	19
18	2,297	32	3,643	40	1,970	30	3,228	26	3,322	29	18
17	2,234	27	4,178	33	2,426	26	1,927	19	2,833	22	17
16	1,977	22	4,802	24	2,392	21	2,067	15	2,337	16	16
15	2,257	18	3,772	14	1,970	16	1,241	10	1,930	11	15
14	1,531	13	1,783	6	1,940	12	1,096	8	1,489	7	14
13	1,140	10	582	2	1,482	7	742	5	1,013	4	13
12	888	7	206	1	979	4	751	4	579	2	12
11	910	6	55	1	579	2	506	2	213	1	11
10	777	4	27	1	282	1	353	1	59	1	10
9	422	2	4	1	86	1	111	1	11	1	9
8	323	1	3	1	39	1	54	1	4	1	8
7	118	1	0	1	29	1	20	1	0	1	7
6	40	1	1	1	8	1	12	1	1	1	6
5	18	1	0	1	7	1	1	1	0	1	5
4	2	1	0	1	6	1	1	1	0	1	4
3	3	1	0	1	0	1	1	1	0	1	3
2	0	1	0	1	0	1	1	1	0	1	2
1	0	1	0	1	1	1	0	1	0	1	1
Avg (SD)	21.4 (6.1)		21.0 (5.1)		22.0 (6.1)		21.4 (4.9)		21.6 (5.0)		Avg (SD)

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

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

ACT Scale Score	English				Reading				Mathematics						ACT Scale Score
	Usage/ Mechanics		Rhetorical Skills		Social Studies		Arts/ Literature		Pre/Elementary Algebra		Algebra/ Coordinate Geometry		Plane Geometry/ Trigonometry		
	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	
18	1,800	100	491	100	1,361	100	1,465	100	1,915	100	319	100	414	100	18
17	2,099	96	1,552	99	2,218	97	2,632	97	2,035	96	714	99	172	99	17
16	2,224	92	2,774	96	2,752	92	3,492	91	2,339	92	952	98	1,612	99	16
15	2,181	87	3,758	90	3,127	87	3,555	84	2,445	87	1,475	96	2,229	95	15
14	2,846	82	2,962	82	2,858	80	3,697	76	3,223	82	3,884	93	3,838	91	14
13	3,525	76	4,084	76	4,192	74	2,354	69	3,937	75	3,434	84	3,789	83	13
12	3,394	69	6,150	67	4,133	65	4,294	64	4,203	66	4,729	77	5,154	74	12
11	4,836	62	5,274	54	5,033	56	4,921	55	4,412	57	6,132	67	5,347	64	11
10	5,282	52	6,267	43	4,729	46	4,461	44	4,810	48	8,490	54	7,087	52	10
9	4,736	40	3,937	29	5,245	36	3,708	35	3,630	38	6,381	36	6,429	37	9
8	3,982	30	3,888	21	4,766	25	3,612	27	5,690	30	4,719	23	4,216	24	8
7	3,216	22	2,395	13	2,985	14	2,757	19	4,953	18	1,820	13	2,756	15	7
6	2,703	15	1,566	8	1,985	8	2,618	13	2,431	8	2,007	9	1,471	9	6
5	2,010	9	1,114	5	938	4	2,285	8	770	3	1,253	5	1,429	6	5
4	1,524	5	758	2	526	2	989	3	289	1	376	2	430	3	4
3	636	2	221	1	282	1	269	1	106	1	435	1	631	2	3
2	228	1	46	1	81	1	125	1	45	1	34	1	117	1	2
1	18	1	3	1	29	1	6	1	7	1	86	1	119	1	1
Avg (SD)	10.6 (3.8)		11.2 (3.2)		11.1 (3.5)		11.1 (3.8)		11.0 (3.5)		10.4 (2.9)		10.5 (3.0)		Avg (SD)

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

Table 2.3. ACT Score Quartile Values for All Students

Quartile	English	Math	Reading	Science	Composite
Q3 (75th Percentile)	25	25	26	24	25
Q2 (50th Percentile)	21	20	21	21	21
Q1 (25th Percentile)	17	17	17	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	All Students	47,240	58	22.8	20.1
	African Am./Black	5,190	50	18.2	16.7
	Am. Indian/Alaska Native	278	51	22.1	19.0
	Caucasian Am./White	35,534	61	23.4	20.5
	Hispanic	1,056	54	21.9	19.1
	Asian Am./Pacific Islander	873	69	24.1	20.9
	Other/No Response	4,309	41	23.2	21.0
National	All Students	1,421,941	61	22.0	19.5
	African Am./Black	178,417	58	17.7	16.0
	Am. Indian/Alaska Native	14,380	53	20.3	17.6
	Caucasian Am./White	895,588	64	22.9	20.4
	Hispanic	114,697	60	19.6	17.4
	Asian Am./Pacific Islander	51,368	71	23.4	21.4
	Other/No Response	167,491	52	22.5	20.1

Table 2.5. Average ACT Scores by Race/Ethnicity

Student Group	Race/Ethnicity	English	Mathematics	Reading	Science	Composite
State	All Students	21.4	21.0	22.0	21.4	21.6
	African Am./Black	16.6	16.9	17.1	17.6	17.2
	Am. Indian/Alaska Native	19.6	19.4	20.9	20.1	20.1
	Caucasian Am./White	22.2	21.6	22.8	22.0	22.3
	Hispanic	19.9	20.0	21.0	20.3	20.4
	Asian Am./Pacific Islander	22.5	23.7	22.5	22.9	23.0
	Other/No Response	20.8	20.6	21.6	20.8	21.1
National	All Students	20.6	21.0	21.4	20.8	21.1
	African Am./Black	16.1	17.0	17.0	17.2	16.9
	Am. Indian/Alaska Native	18.1	18.8	19.6	19.2	19.0
	Caucasian Am./White	21.7	21.8	22.5	21.7	22.1
	Hispanic	17.7	19.0	18.9	18.7	18.7
	Asian Am./Pacific Islander	22.1	24.1	22.4	22.3	22.9
	Other/No Response	21.2	21.7	22.1	21.2	21.7

Table 2.6. Percent of Students in College Readiness Standards (CRS) Score Ranges

Student Group	CRS Range	English		Mathematics		Reading		Science	
		N	%	N	%	N	%	N	%
State	33 to 36	2,433	5	1,254	3	2,470	5	1,055	2
	28 to 32	5,467	12	4,370	9	7,260	15	3,516	7
	24 to 27	8,657	18	9,200	19	8,211	17	9,981	21
	20 to 23	13,140	28	10,394	22	11,935	25	16,547	35
	16 to 19	9,114	19	15,589	33	9,956	21	11,251	24
	13 to 15	4,928	10	6,137	13	5,392	11	3,079	7
	01 to 12	3,501	7	296	1	2,016	4	1,811	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	21,096	45	21.0	21.6	21.9	21.9	21.8
	Females	25,457	54	21.7	20.3	22.0	20.8	21.3
	Missing	687	1	23.3	22.7	23.7	22.8	23.3
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	48	56	36	28
	Females	75	37	57	26	20
National	Males	65	47	51	32	26
	Females	70	38	53	24	19

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

Student Group	Curriculum Taken ²	N	English		Mathematics		Reading		Science		Composite ¹	
			CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB %	Avg
State	Core	27,219	83	22.9	52	22.2	65	23.2	39	22.5	31	22.8
	Non-Core	15,728	64	19.7	29	19.4	47	20.7	20	20.1	14	20.1
	Missing	4,293	49	18.1	26	18.6	37	19.1	19	18.9	15	18.8
National	Core	873,743	75	21.6	50	21.9	59	22.3	33	21.6	27	22.0
	Non-Core	431,748	56	18.8	29	19.3	41	19.9	18	19.4	14	19.5
	Missing	116,450	62	19.9	42	20.8	48	20.8	27	20.3	23	20.6

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

²"Curriculum Taken" reflects overall high school curriculum.

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

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

Student Group	Curriculum Taken ¹	English			Mathematics			Reading			Science		
		N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg
State	Core	38,650	78	22.1	38,899	47	21.6	39,503	59	22.3	32,650	37	22.2
	Non-Core	4,848	57	18.8	4,272	12	17.3	3,843	51	21.2	10,646	16	19.7
	Missing	3,742	49	18.1	4,069	25	18.4	3,894	37	19.1	3,944	20	18.9
National	Core	1,216,115	70	20.8	1,192,135	46	21.4	1,137,832	54	21.6	1,063,049	32	21.4
	Non-Core	111,558	57	18.8	124,104	14	17.4	183,026	45	20.4	253,561	13	18.7
	Missing	94,268	64	20.2	105,702	42	20.8	101,083	50	21.1	105,331	28	20.5

¹"Curriculum Taken" reflects content-specific curriculum.

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

Section III

College Readiness and the Impact of Course Rigor

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

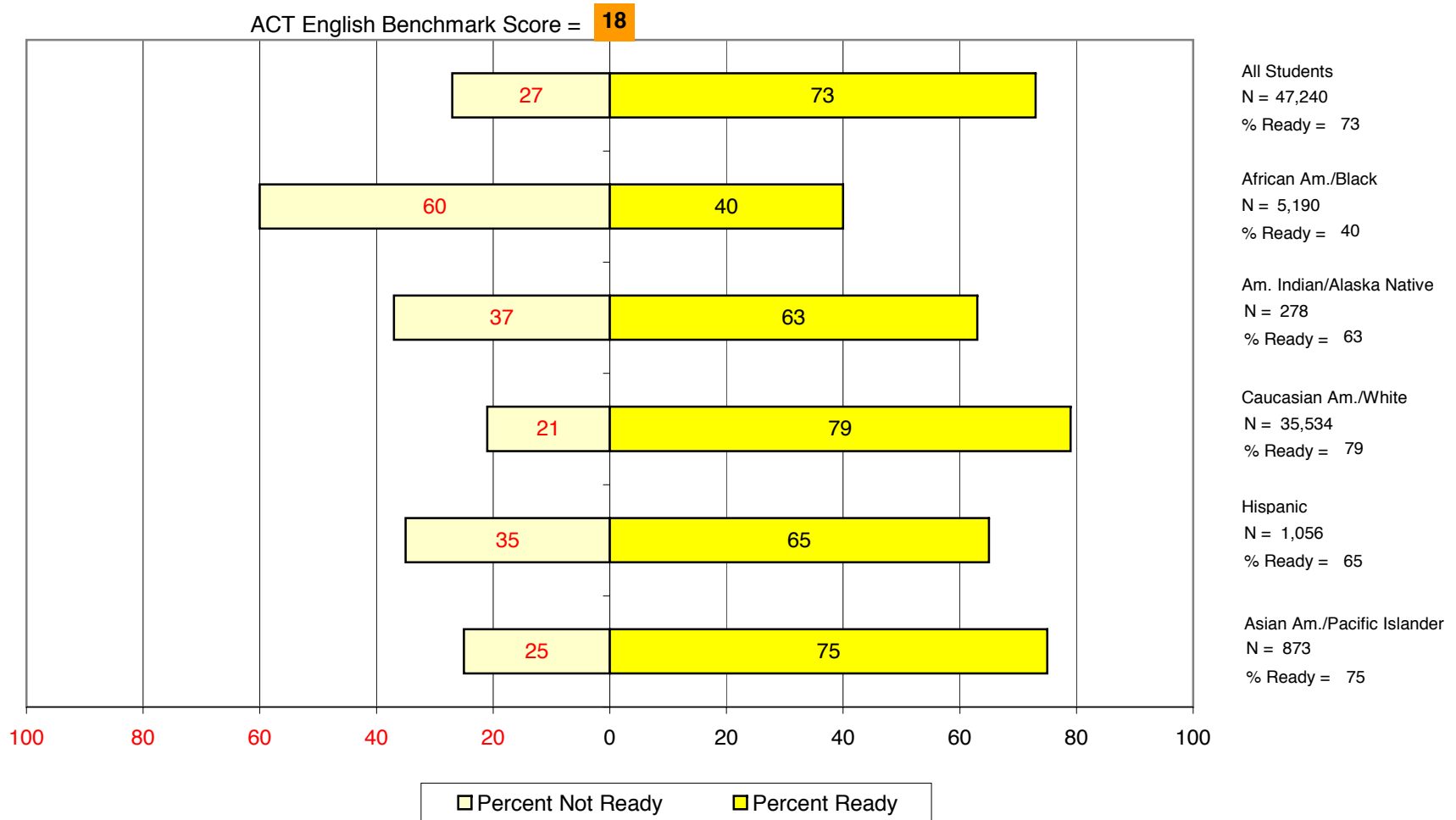


Figure 3.2. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

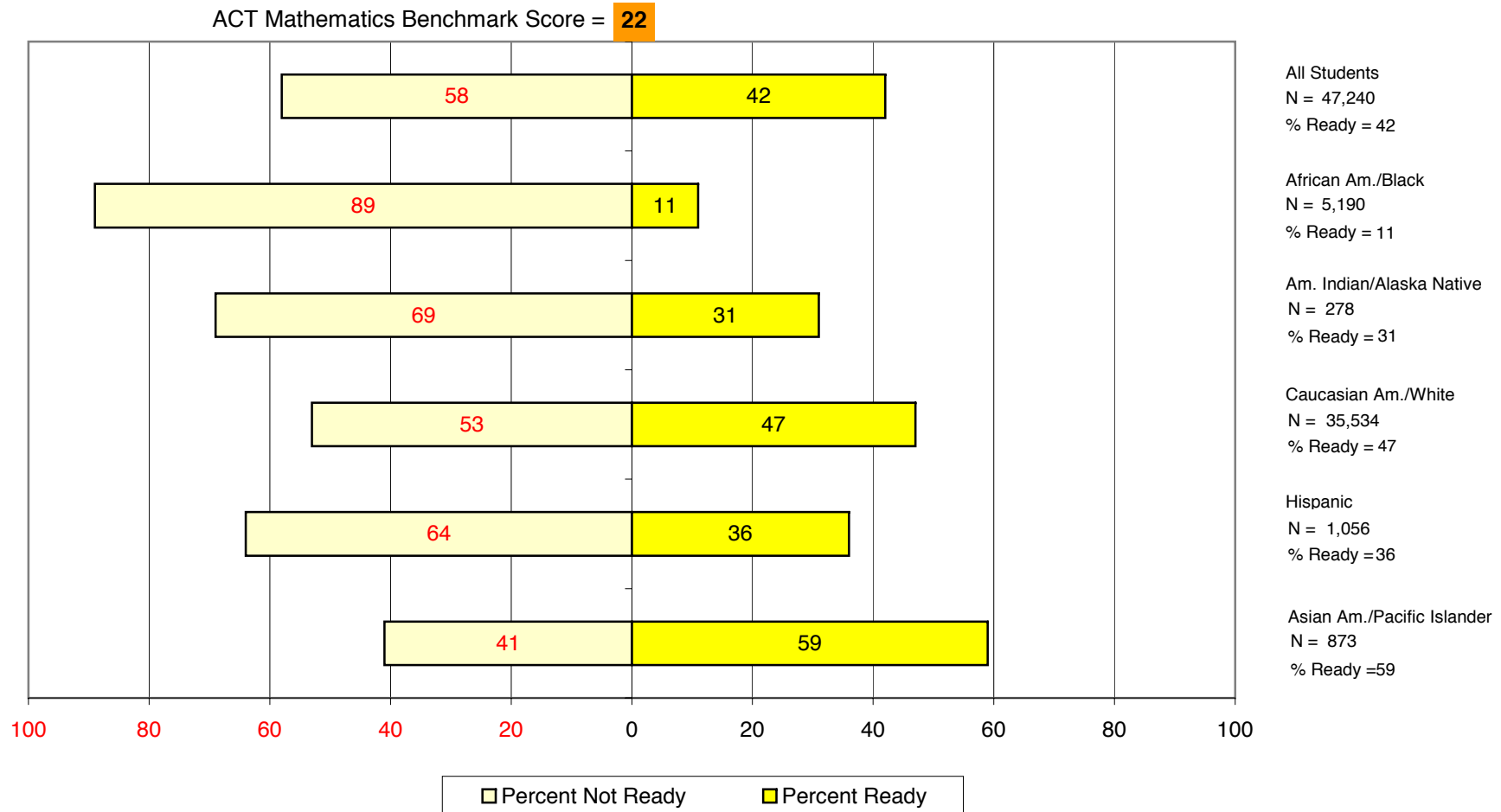


Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: READING

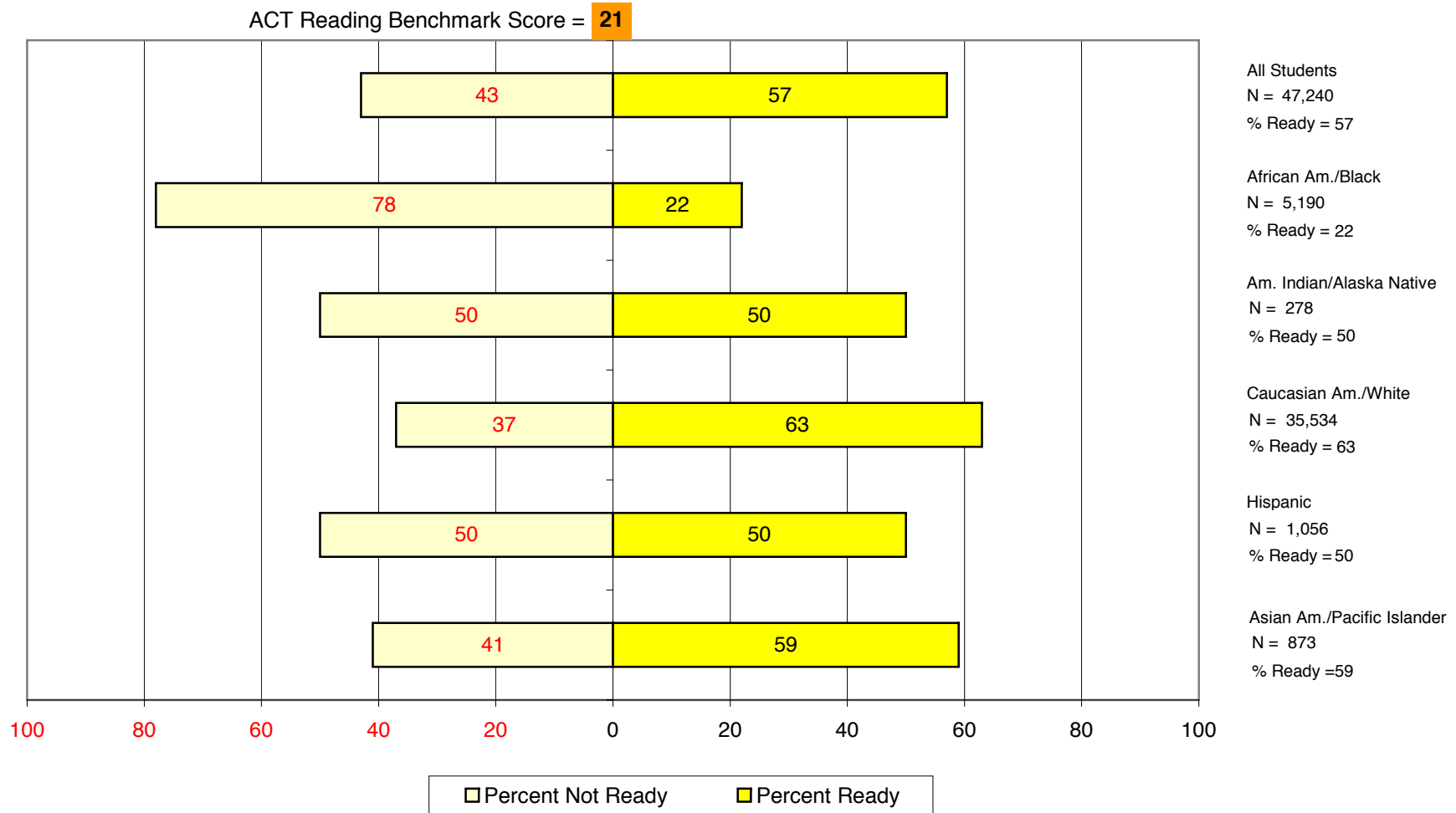


Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

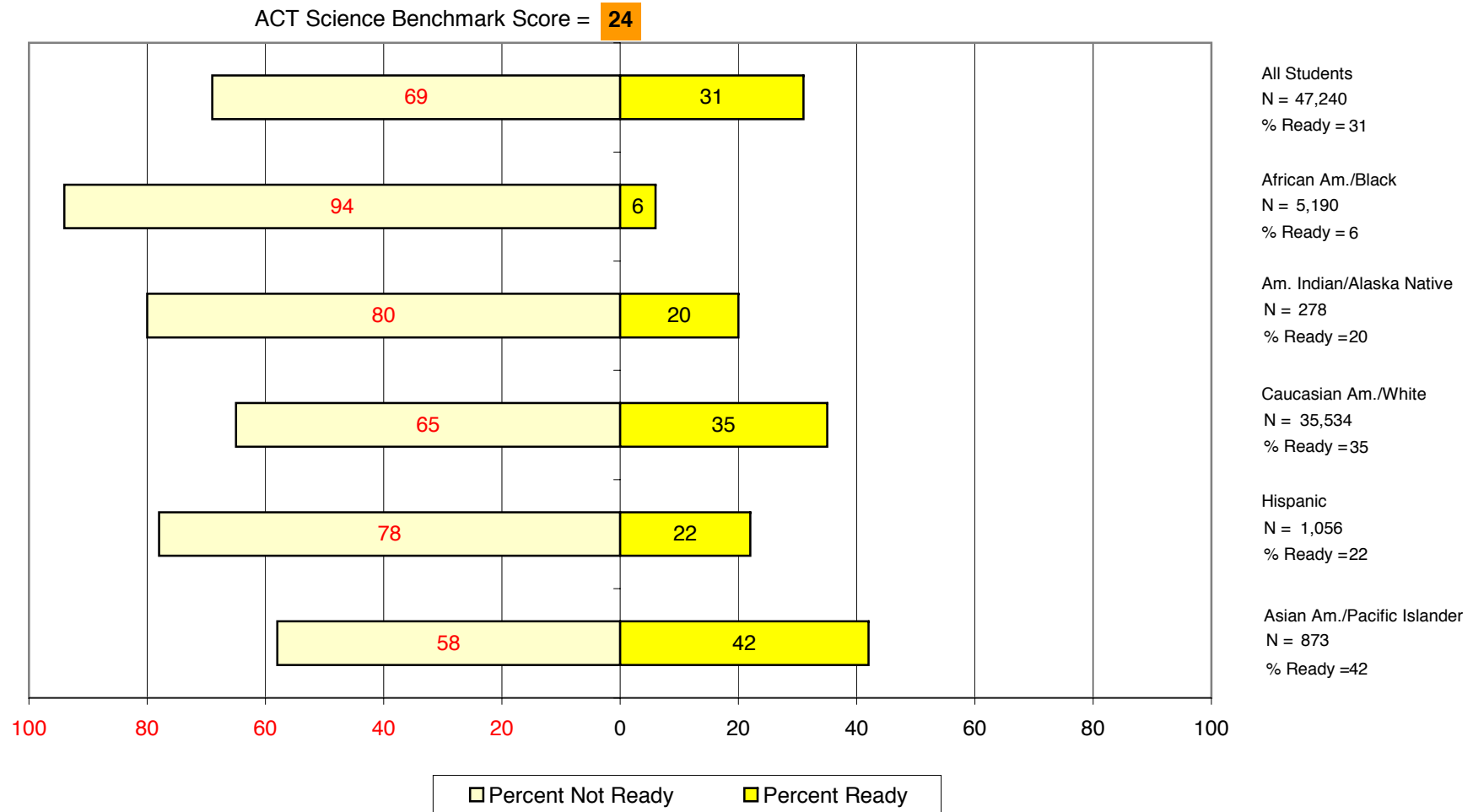


Figure 3.5. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR

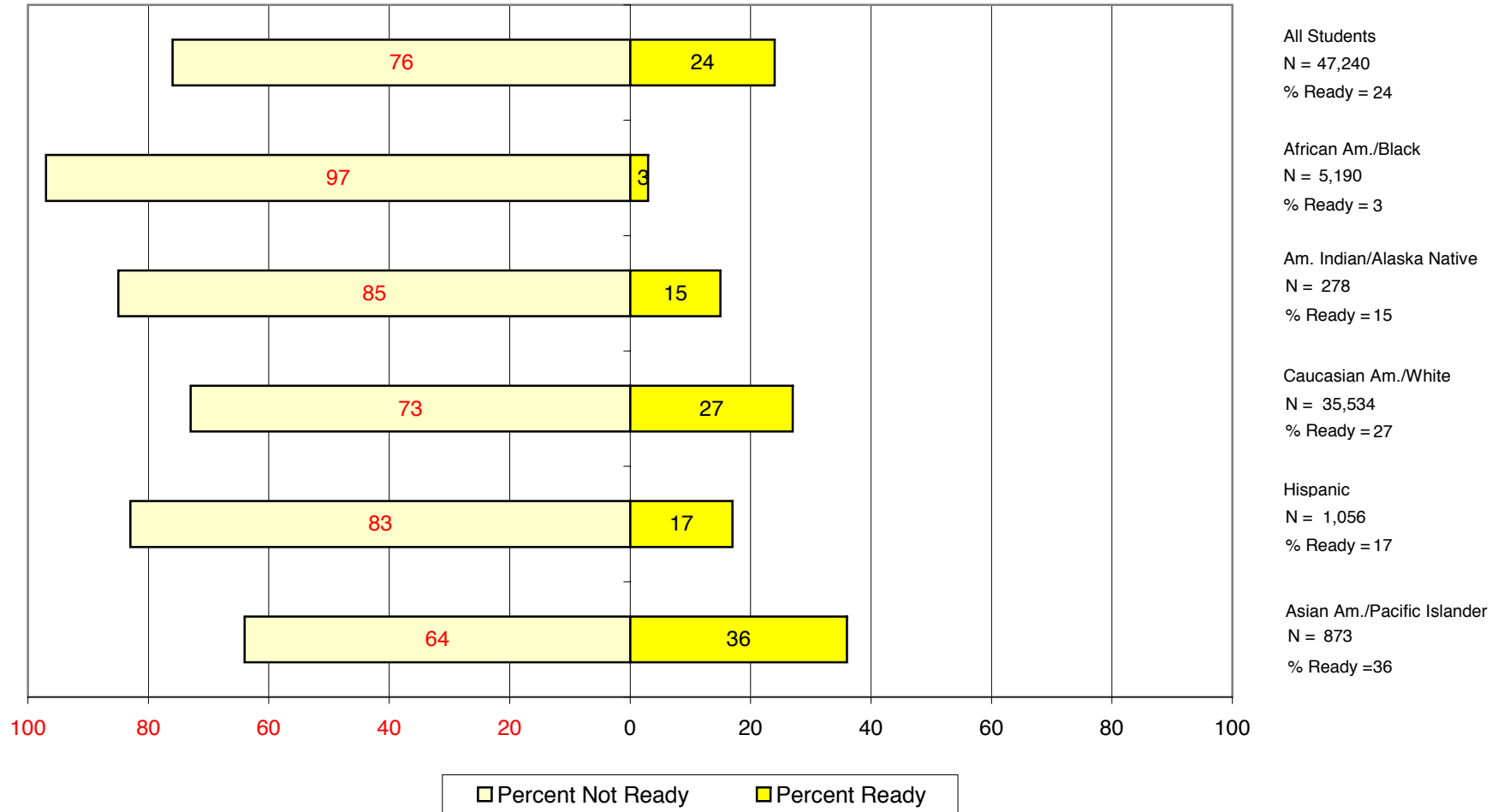


Table 3.1. Average ACT Scores and ACT Average Score Changes by Common Course Patterns

Course Pattern	All Students				Males				Females			
	N	Percent	ACT English	Course Value Added ¹	N	Percent	ACT English	Course Value Added ¹	N	Percent	ACT English	Course Value Added ¹
ENGLISH COURSE PATTERN												
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	11,841	25	22.8	4.0	4,501	21	22.2	3.7	7,237	28	23.1	4.2
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	26,809	57	21.7	2.9	12,489	59	21.5	3.0	14,092	55	21.9	3.0
Less than 4 years of English	4,871	10	18.8	-	2,347	11	18.5	-	2,432	10	18.9	-
No English course/grade information reported	3,719	8	18.1	-	1,759	8	17.4	-	1,696	7	17.7	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	2,829	6	25.2	8.0	1,387	7	26.0	8.5	1,411	6	24.4	7.5
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	5,709	12	22.5	5.3	2,156	10	23.2	5.7	3,509	14	22.0	5.1
Alg 1, Alg 2, Geom, & Trig	3,586	8	20.3	3.1	1,519	7	21.0	3.5	2,027	8	19.7	2.8
Alg 1, Alg 2, Geom, & Other Adv Math	7,162	15	20.3	3.1	2,675	13	20.9	3.4	4,436	17	20.0	3.1
Other comb of 4 or more years of Math	10,436	22	24.3	7.1	5,323	25	25.0	7.5	5,010	20	23.4	6.5
Alg 1, Alg 2, & Geom (Min. Core)	7,352	16	17.9	0.7	3,211	15	18.4	0.9	4,074	16	17.5	0.6
Other comb of 3 or 3.5 years of Math	1,825	4	21.1	3.9	880	4	21.5	4.0	927	4	20.7	3.8
Less than 3 years of Math	4,509	10	17.2	-	2,145	10	17.5	-	2,306	9	16.9	-
No Math course/grade information reported	3,832	8	18.6	-	1,800	9	18.8	-	1,757	7	17.5	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	2,495	5	23.1	1.9	1,292	6	23.0	1.7	1,175	5	23.2	2.2
Other comb of 4 or more years Social Science	17,570	37	22.9	1.7	7,405	35	22.9	1.6	10,002	39	22.9	1.9
US Hist, World Hist, & Am Gov (Min. Core)	5,830	12	20.9	-0.3	2,927	14	21.1	-0.2	2,855	11	20.7	-0.3
Other comb of 3 or 3.5 years of Social Science	13,608	29	22.1	0.9	5,698	27	22.2	0.9	7,808	31	22.1	1.1
Less than 3 years of Social Science	3,906	8	21.2	-	1,965	9	21.3	-	1,869	7	21.0	-
No Soc Sci course/grade information reported	3,831	8	19.1	-	1,809	9	18.8	-	1,748	7	18.5	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	12,637	27	23.1	3.4	6,300	30	23.8	3.8	6,217	24	22.3	2.9
Bio, Chem, Phys	2,788	6	24.5	4.8	1,472	7	25.5	5.5	1,276	5	23.3	3.9
Gen Sci ² , Bio, Chem (Min. Core)	15,673	33	21.2	1.5	5,849	28	21.5	1.5	9,702	38	20.9	1.5
Other comb of 3 years of Natural Science	1,552	3	21.9	2.2	920	4	22.7	2.7	614	2	20.6	1.2
Less than 3 years of Natural Science	10,743	23	19.7	-	4,741	22	20.0	-	5,893	23	19.4	-
No Nat Sci course/grade information reported	3,847	8	18.9	-	1,814	9	18.9	-	1,755	7	18.2	-

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

²Includes General, Physical and Earth Sciences.

Table 3.2. College Readiness Percents by Common Course Patterns

Course Pattern	State				National			
	N	Percent Taking Pattern	Avg ACT English	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT English	Percent Meeting Benchmark
ENGLISH COURSE PATTERN								
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	11,841	25	22.8	82	266,394	19	21.8	76
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	26,809	57	21.7	76	949,721	67	20.5	68
Less than 4 years of English	4,871	10	18.8	57	112,496	8	18.8	56
No English course/grade information reported	3,719	8	18.1	49	93,330	7	20.2	64
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	2,829	6	25.2	75	91,985	6	24.8	74
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	5,709	12	22.5	59	113,879	8	22.3	57
Alg 1, Alg 2, Geom, & Trig	3,586	8	20.3	37	116,105	8	20.4	38
Alg 1, Alg 2, Geom, & Other Adv Math	7,162	15	20.3	36	204,909	14	20.4	38
Other comb of 4 or more years of Math	10,436	22	24.3	68	342,493	24	23.9	66
Alg 1, Alg 2, & Geom (Min. Core)	7,352	16	17.9	14	251,813	18	17.8	14
Other comb of 3 or 3.5 years of Math	1,825	4	21.1	43	70,951	5	20.8	41
Less than 3 years of Math	4,509	10	17.2	12	131,252	9	17.4	14
No Math course/grade information reported	3,832	8	18.6	26	98,554	7	21.1	44
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	2,495	5	23.1	63	42,546	3	22.7	61
Other comb of 4 or more years Social Science	17,570	37	22.9	63	604,055	42	21.9	56
US Hist, World Hist, & Am Gov (Min. Core)	5,830	12	20.9	49	86,500	6	20.8	48
Other comb of 3 or 3.5 years of Social Science	13,608	29	22.1	58	404,731	28	21.3	52
Less than 3 years of Social Science	3,906	8	21.2	51	185,561	13	20.4	45
No Soc Sci course/grade information reported	3,831	8	19.1	36	98,548	7	21.1	50
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	12,637	27	23.1	45	453,654	32	22.2	38
Bio, Chem, Phys	2,788	6	24.5	57	134,033	9	23.2	47
Gen Sci ¹ , Bio, Chem (Min. Core)	15,673	33	21.2	27	435,183	31	20.1	20
Other comb of 3 years of Natural Science	1,552	3	21.9	34	40,179	3	20.1	22
Less than 3 years of Natural Science	10,743	23	19.7	16	259,142	18	18.7	13
No Nat Sci course/grade information reported	3,847	8	18.9	20	99,750	7	20.6	29

¹Includes General, Physical and Earth Sciences.

Section IV

Career and Educational Aspirations

Table 4.1. Distribution of Planned Educational Majors for All Students and by College Plans

Planned Educational Major	All Students			Plan on 2 Years or Less of College			Plan on 4 Years or More of College		
	N ¹	Percent ²	Avg ACT Comp	N	Percent ²	Avg ACT Comp	N	Percent ²	Avg ACT Comp
Agriculture Sciences & Technologies	894	2	19.5	111	4	16.5	723	2	20.1
Architecture & Environmental Design	913	2	21.2	56	2	16.6	798	2	21.5
Business & Management	4,885	10	21.1	231	8	17.4	4,359	11	21.3
Business & Office	331	1	19.4	31	1	17.3	275	1	19.8
Marketing & Distribution	477	1	20.9	20	1	15.3	420	1	21.2
Communications & Comm. Technologies	1,430	3	22.4	47	2	17.4	1,304	3	22.6
Community & Personal Services	1,152	2	19.2	159	6	17.0	917	2	19.6
Computer & Information Sciences	1,014	2	21.9	116	4	18.3	853	2	22.4
Cross-Disciplinary Studies	54	0	25.0	2	0	20.5	50	0	25.1
Education	2,224	5	21.2	65	2	16.8	2,036	5	21.4
Teacher Education	1,526	3	20.5	42	2	16.5	1,400	4	20.7
Engineering	1,768	4	23.9	91	3	16.1	1,590	4	24.4
Engineering-Related Technologies	1,002	2	22.6	61	2	17.9	880	2	22.9
Foreign Languages	220	0	23.7	5	0	17.0	199	1	23.9
Health Sciences & Allied Health Fields	7,843	17	21.3	522	19	17.4	6,930	18	21.7
Human, Family & Consumer Science	584	1	19.2	105	4	17.4	434	1	19.8
Letters	292	1	25.1	8	0	17.9	264	1	25.4
Mathematics	217	0	24.9	4	0	19.3	202	1	24.9
Philosophy, Religion & Theology	335	1	22.6	10	0	20.4	305	1	22.7
Sciences (Biological & Physical)	1,967	4	24.4	12	0	17.9	1,850	5	24.4
Social Sciences	2,557	5	22.6	38	1	17.0	2,407	6	22.7
Trade & Industrial	561	1	18.7	290	11	17.9	237	1	19.7
Visual & Performing Arts	2,823	6	21.4	196	7	17.9	2,404	6	21.8
Undecided	7,176	15	22.0	372	14	17.7	6,033	16	22.2
No Response	4,995	11	20.6	149	5	15.6	1,244	3	21.9

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

²Percent of students tested.

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

Educational Degree Aspirations	All Racial/Ethnic Groups Combined		African-Am./ Black		Am. Indian/ Alaska Native		Caucasian-Am./ White		Hispanic		Asian-Am./ Pacific Islander		Other/No Response	
	N	Average	N	Average	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	584	17.1	79	14.7	6	16.0	426	17.7	16	15.6	9	14.3	48	17.3
2-yr College Degree	2,159	17.4	316	14.6	26	16.8	1,585	18.1	68	16.0	26	16.0	138	16.8
Bachelors Degree	18,331	20.7	1,691	16.6	101	19.1	14,970	21.2	341	19.7	233	20.3	995	20.7
Graduate Study	7,881	23.4	662	18.5	36	21.9	6,353	24.0	154	21.8	130	23.6	546	23.5
Prof. Level Degree	11,902	23.0	1,625	18.3	89	22.1	8,542	23.9	348	21.9	373	25.3	925	23.0
Other	1,323	18.6	236	15.4	7	17.1	863	19.6	38	17.9	21	18.7	158	18.2
No Response	5,060	21.1	581	16.6	13	20.0	2,795	22.6	91	20.4	81	24.0	1,499	20.1

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
UNIV OF MISSOURI-COLUMBIA	Missouri	10,440	4,223	6,217	0	4	17	34	28	15	2
MISSOURI STATE UNIVERSITY	Missouri	7,878	2,639	5,239	1	5	23	37	23	10	1
UNIVERSITY OF CENTRAL MISSOURI	Missouri	3,920	1,345	2,575	1	8	28	38	19	6	0
SOUTHEAST MISSOURI STATE UNIVERSITY	Missouri	3,731	1,363	2,368	1	9	29	35	19	7	0
TRUMAN STATE UNIVERSITY	Missouri	3,064	831	2,233	1	2	11	28	31	25	3
UNIV OF MISSOURI-KANSAS CITY	Missouri	3,012	818	2,194	1	8	20	31	25	14	1
NORTHWEST MISSOURI ST UNIV	Missouri	2,826	945	1,881	1	7	27	37	21	7	1
SAINT LOUIS UNIVERSITY	Missouri	2,417	550	1,867	2	7	17	26	26	19	2
UNIVERSITY OF MISSOURI-ST LOUIS	Missouri	2,306	456	1,850	1	9	26	35	20	8	1
MISSOURI UNIV OF SCIENCE & TECHNOLOGY	Missouri	2,012	760	1,252	0	2	13	25	32	24	4
MISSOURI WESTERN STATE UNIVERSITY	Missouri	1,748	643	1,105	2	15	34	28	16	5	0
LINDENWOOD UNIVERSITY	Missouri	1,698	529	1,169	1	10	30	38	15	6	0
WASHINGTON UNIVERSITY IN ST LOUIS	Missouri	1,651	378	1,273	2	6	14	19	22	28	9
DRURY UNIVERSITY	Missouri	1,472	354	1,118	0	5	20	35	23	16	1
MISSOURI SOUTHERN STATE UNIV	Missouri	1,420	504	916	1	9	32	34	17	5	0
UNIVERSITY OF KANSAS	Kansas	1,296	338	958	1	6	17	28	29	17	2
COLLEGE OF THE OZARKS	Missouri	1,205	546	659	1	8	33	35	18	5	0
OZARKS TECHNICAL COMMUNITY COLLEGE	Missouri	1,191	446	745	1	13	40	31	12	3	0
COLUMBIA COLLEGE	Missouri	1,008	269	739	2	11	31	34	16	6	0
WEBSTER UNIVERSITY	Missouri	946	250	696	1	9	22	32	24	10	1
MARYVILLE UNIV OF SAINT LOUIS	Missouri	891	264	627	2	6	25	36	23	8	1
SAINT LOUIS COMM COLL-MERAMEC	Missouri	873	287	586	2	14	35	31	15	2	0
NCAA ELIGIBILITY CENTER	Indiana	867	402	465	2	6	23	33	24	12	1
WILLIAM JEWELL COLLEGE	Missouri	826	194	632	0	5	20	33	27	13	1
SOUTHWEST BAPTIST UNIVERSITY	Missouri	813	249	564	1	6	23	37	23	10	1
LINCOLN UNIVERSITY	Missouri	811	236	575	6	30	39	17	7	1	0
LONGVIEW COMMUNITY COLLEGE	Missouri	803	270	533	2	15	35	32	13	3	0
KANSAS STATE UNIVERSITY	Kansas	773	195	578	2	8	19	32	26	12	1
ST CHARLES COMMUNITY COLLEGE	Missouri	720	312	408	1	12	32	41	12	2	0
ROCKHURST UNIVERSITY	Missouri	711	170	541	2	7	18	32	26	14	1
All Other Institutions		44,211	12,450	31,761	2	12	26	26	19	12	2
Total		107,540	33,216	74,324	2	9	24	30	21	12	2

Section V

Optional Writing Test Results

Table 5.1. Average ACT English and Writing Scores by Race/Ethnicity and Gender for students who took ACT Writing

	N		Average ACT Scores					
			English		Essay		English/Writing Combined	
			State	National	State	National	State	National
All Students	7,614	770,529	24.8	21.4	7.7	7.3	23.7	20.9
African Am./Black	859	86,049	18.9	16.6	7.0	6.5	18.7	16.6
Am. Indian/Alaska Native	41	5,148	22.3	18.9	7.6	6.7	21.8	18.5
Caucasian Am./White	5,308	464,177	25.5	22.5	7.8	7.4	24.3	21.8
Hispanic	197	71,060	22.4	18.3	7.6	7.1	21.9	18.5
Asian Am./Pacific Islander	275	37,359	27.1	23.1	8.3	7.9	26.0	22.6
Other/No Response	934	106,736	26.0	22.2	7.9	7.5	24.8	21.7
Males	3,208	327,613	24.6	20.9	7.4	7.0	23.4	20.2
Females	4,202	421,968	24.8	21.7	7.9	7.6	23.9	21.3
Missing	204	20,948	26.4	23.9	8.1	7.9	25.3	23.2

