

ACT Profile Report - State

Graduating Class 2009
Michigan



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This report provides information about the performance of your 2009 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 2009 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, test data for a school, district, and the state 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, or the state.

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.

Total Students in Report: 121,982

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

18% of your students 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: 121,982 of your students 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. 54% 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 18% of the cohort took less than three years of math courses. Of these students, 4% were college ready. 19% of the cohort reported taking the minimum math core (Algebra I, Algebra II, and Geometry). 11% of these students were college ready. In comparison, 47% of the students who advanced beyond minimum math 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 25% of the cohort took less than three years of natural science courses. 9% of these students were college ready. In comparison, 29% 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 60% 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.

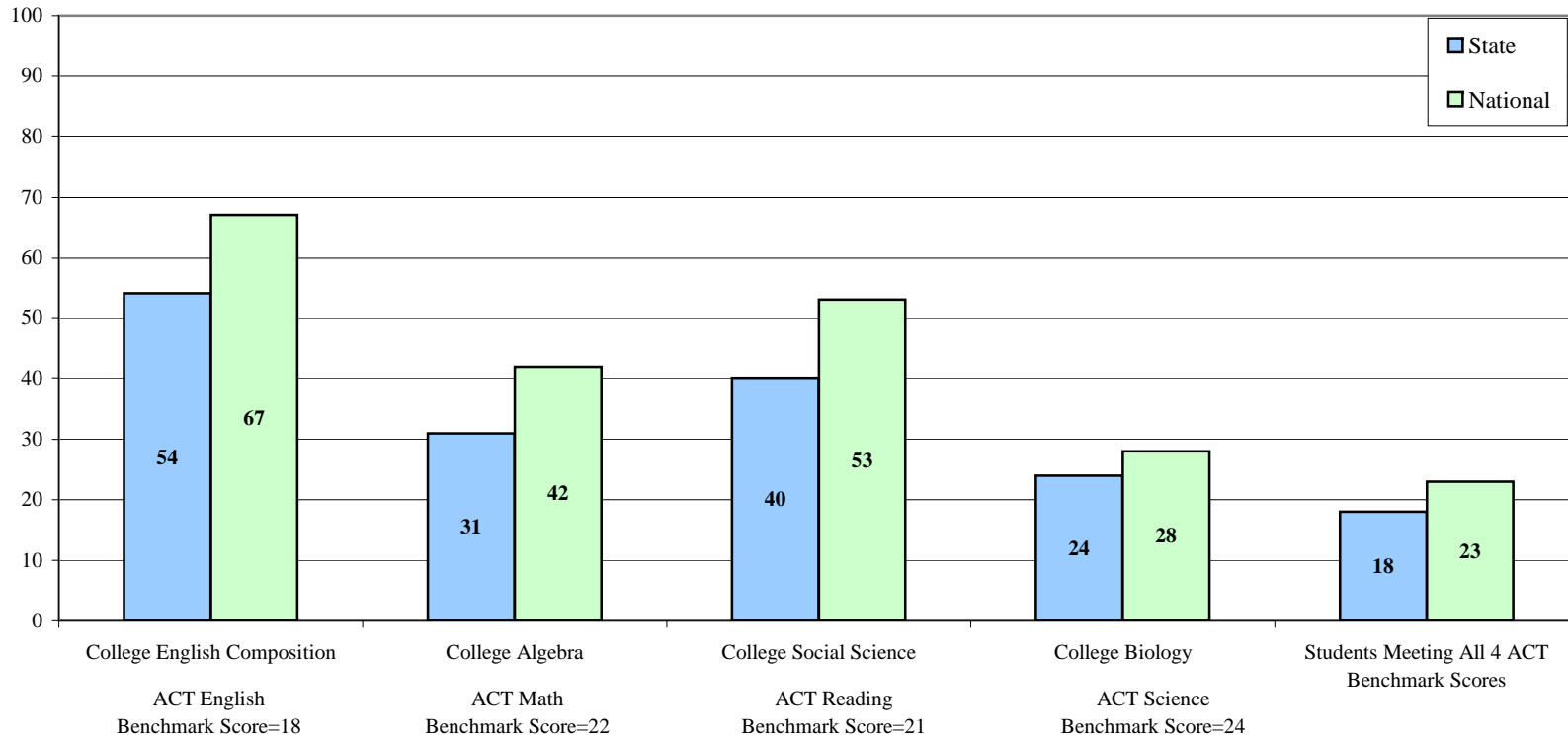
For more information on interpreting data in this report, or to learn how ACT can help your students improve their readiness for college and the workplace, contact your regional office at 847-634-2560.

Section I

Executive Summary

Total Students in Report: 121,982

Figure 1.1. Percent of Your 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.

Total Students in Report: 121,982

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

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
2005	74,307	1,186,251	70	68	45	41	55	51	32	26	25	21
2006	72,751	1,206,455	70	69	45	42	56	53	32	27	25	21
2007	78,135	1,300,599	71	69	46	43	56	53	33	28	26	23
2008	123,918	1,421,941	55	68	31	43	41	53	23	28	17	22
2009	121,982	1,480,469	54	67	31	42	40	53	24	28	18	23

Table 1.2. Five Year Trends—Average ACT Scores

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
2005	74,307	1,186,251	20.7	20.4	21.2	20.7	21.8	21.3	21.6	20.9	21.4	20.9
2006	72,751	1,206,455	20.7	20.6	21.2	20.8	21.8	21.4	21.7	20.9	21.5	21.1
2007	78,135	1,300,599	20.7	20.7	21.3	21.0	21.8	21.5	21.7	21.0	21.5	21.2
2008	123,918	1,421,941	18.7	20.6	19.5	21.0	19.8	21.4	19.9	20.8	19.6	21.1
2009	121,982	1,480,469	18.6	20.6	19.6	21.0	19.6	21.4	20.1	20.9	19.6	21.1

Table 1.3. Five Year Trends—Average ACT Scores Nationwide

Year	Number of Students Tested	Average ACT Scores				
		English	Mathematics	Reading	Science	Composite
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
2009	1,480,469	20.6	21.0	21.4	20.9	21.1

Total Students in Report: 121,982

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

Year	Number of Students Tested		Percent ²		Average ACT Scores									
	Core or More ¹	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
2005	39,706	29,963	53	40	21.9	19.0	22.4	19.5	22.9	20.4	22.6	20.3	22.6	19.9
2006	37,887	29,112	52	40	21.8	19.1	22.4	19.6	22.8	20.5	22.6	20.5	22.5	20.0
2007	38,703	30,454	50	39	21.9	19.2	22.5	19.8	22.8	20.6	22.6	20.5	22.6	20.1
2008	60,338	52,434	49	42	20.5	16.7	21.0	17.8	21.4	18.1	21.4	18.4	21.2	17.9
2009	66,446	49,183	54	40	20.6	16.4	21.2	17.8	21.4	17.8	21.5	18.5	21.3	17.8

¹"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

²Percent of all students tested. Numbers will not add up to 100% due to student non-response.

Table 1.5. Five Year Trends—Percent and Average Composite Score by Race/Ethnicity

	2005			2006			2007			2008			2009		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
All Students	74,307	100	21.4	72,751	100	21.5	78,135	100	21.5	123,918	100	19.6	121,982	100	19.6
African American/Black	8,216	11	17.0	7,985	11	17.1	9,285	12	16.9	16,952	14	15.8	17,430	14	15.6
American Indian/Alaska Native	440	1	20.2	456	1	20.1	500	1	20.4	1,068	1	17.8	1,033	1	17.8
Caucasian American/White	54,397	73	22.1	51,954	71	22.1	52,309	67	22.2	82,209	66	20.4	81,436	67	20.6
Hispanic	1,678	2	19.8	1,714	2	19.9	1,901	2	19.8	4,065	3	17.6	4,203	3	17.5
Asian American/Pacific Islander	2,100	3	23.0	2,019	3	23.1	1,935	2	23.5	2,700	2	22.5	2,690	2	22.8
Other/No Response	7,476	10	21.5	8,623	12	21.5	12,205	16	21.9	16,924	14	19.4	15,190	12	18.8

Section II

Academic Achievement

Total Students in Report: 121,982

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

ACT Score	English		Mathematics		Reading		Science		Composite		ACT Score
	N	CP	N	CP	N	CP	N	CP	N	CP	
36	186	100	231	100	482	100	212	100	39	100	36
35	709	100	381	100	525	100	441	100	179	100	35
34	1,192	99	812	99	1,061	99	561	99	435	100	34
33	977	98	885	99	1,643	98	640	99	708	99	33
32	1,098	97	859	98	1,727	97	355	98	925	99	32
31	1,238	97	1,298	97	2,210	96	1,038	98	1,321	98	31
30	1,954	96	1,371	96	2,704	94	1,398	97	1,738	97	30
29	1,565	94	2,130	95	2,508	92	1,722	96	2,099	96	29
28	2,835	93	2,691	93	2,954	89	2,099	95	2,854	94	28
27	2,837	90	3,211	91	3,147	87	2,334	93	3,292	92	27
26	3,357	88	4,534	89	3,385	84	4,386	91	4,141	89	26
25	4,271	85	4,182	85	3,683	82	6,866	88	4,690	85	25
24	5,356	82	6,033	81	4,435	79	6,654	82	5,504	82	24
23	4,637	77	4,834	77	7,501	75	5,860	76	5,960	77	23
22	6,476	74	4,701	73	5,281	69	7,860	72	6,841	72	22
21	7,006	68	5,332	69	6,086	65	12,357	65	7,617	67	21
20	7,364	63	5,310	64	9,226	60	10,725	55	7,988	60	20
19	7,243	57	8,244	60	6,311	52	11,166	46	8,573	54	19
18	5,424	51	9,108	53	5,610	47	11,537	37	8,889	47	18
17	5,711	46	11,074	46	6,230	42	6,398	28	9,123	40	17
16	8,137	41	16,404	37	9,906	37	6,087	22	8,920	32	16
15	6,210	35	16,490	23	5,925	29	5,562	17	8,701	25	15
14	7,973	30	8,248	10	9,260	24	4,721	13	8,034	18	14
13	5,447	23	1,811	3	4,999	17	1,175	9	6,578	11	13
12	5,157	19	1,275	1	6,979	12	3,658	8	4,335	6	12
11	4,906	14	299	1	4,546	7	4,084	5	1,716	2	11
10	4,230	10	124	1	1,574	3	1,125	2	535	1	10
9	3,405	7	56	1	882	2	539	1	143	1	9
8	3,004	4	4	1	616	1	274	1	61	1	8
7	1,305	2	25	1	295	1	88	1	22	1	7
6	428	1	2	1	144	1	10	1	12	1	6
5	181	1	3	1	86	1	29	1	5	1	5
4	106	1	11	1	9	1	2	1	2	1	4
3	35	1	0	1	31	1	16	1	1	1	3
2	16	1	7	1	18	1	0	1	1	1	2
1	6	1	2	1	3	1	3	1	0	1	1
Avg (SD)	18.6 (6.4)		19.6 (5.1)		19.6 (6.2)		20.1 (5.0)		19.6 (5.2)		Avg (SD)

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

Note: Shaded portions of columns identify the students who met/exceeded the ACT College Readiness Benchmark Scores.

Total Students in Report: 121,982

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

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	N	CP	N	CP	N	CP	N	CP	N	CP	N	CP	
18	2,820	100	841	100	1,925	100	2,366	100	2,503	100	718	100	1,058	100	18
17	2,436	98	1,790	99	2,759	98	3,096	98	5,154	98	1,068	99	219	99	17
16	4,013	96	3,736	98	5,722	96	5,863	96	3,245	94	1,845	99	2,775	99	16
15	3,218	92	5,432	95	5,123	91	7,178	91	4,774	91	3,210	97	4,074	97	15
14	5,061	90	7,213	90	5,703	87	8,009	85	5,452	87	7,929	94	7,105	93	14
13	6,052	86	8,231	84	6,430	83	7,297	78	9,026	83	6,080	88	10,634	88	13
12	5,462	81	9,756	78	12,630	77	9,530	72	7,765	75	8,266	83	6,615	79	12
11	10,471	76	13,114	70	8,934	67	4,274	64	10,816	69	16,903	76	12,468	73	11
10	12,420	68	11,673	59	10,562	60	10,096	61	7,632	60	15,965	62	16,759	63	10
9	10,814	57	15,352	49	19,376	51	16,252	53	12,184	54	15,715	49	22,510	49	9
8	10,175	49	11,486	37	12,590	35	10,365	39	13,698	44	14,668	36	14,314	31	8
7	11,032	40	10,741	27	10,596	25	9,101	31	20,517	33	12,658	24	10,857	19	7
6	10,929	31	9,178	19	8,282	16	8,000	23	12,120	16	8,692	14	1,323	10	6
5	9,755	22	7,362	11	5,549	9	11,464	17	4,031	6	755	7	6,786	9	5
4	10,414	14	4,121	5	3,252	5	6,548	7	2,141	3	5,109	6	626	4	4
3	4,294	6	1,527	2	1,687	2	1,613	2	735	1	1,967	2	2,991	3	3
2	2,210	2	384	1	633	1	723	1	70	1	68	1	124	1	2
1	406	1	45	1	229	1	207	1	119	1	366	1	744	1	1
Avg (SD)	8.9 (3.9)		9.8 (3.4)		10.0 (3.5)		9.8 (3.9)		9.9 (3.5)		9.6 (3.0)		9.8 (3.0)		Avg (SD)

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

Table 2.3. ACT Score Quartile Values

Quartile	English	Mathematics	Reading	Science	Composite
Q3 (75th Percentile)	23	23	23	23	23
Q2 (50th Percentile)	18	18	19	20	19
Q1 (25th Percentile)	14	16	15	17	16

Total Students in Report: 121,982

Table 2.4. Average ACT Composite Scores for Race/Ethnicity by Level of Preparation

Student Group	Race/Ethnicity	Number of Students Tested	Percent Taking Core or More ¹	Average ACT Composite Score	
				Core or More	Less Than Core
State	All Students	121,982	54	21.3	17.8
	African American/Black	17,430	55	16.4	14.8
	American Indian/Alaska Native	1,033	42	19.4	16.8
	Caucasian American/White	81,436	56	22.4	18.5
	Hispanic	4,203	47	19.2	16.2
	Asian American/Pacific Islander	2,690	72	24.3	19.4
	Other/No Response	15,190	48	20.6	17.3
National	All Students	1,480,469	70	22.0	19.1
	African American/Black	196,149	64	17.6	15.9
	American Indian/Alaska Native	15,773	59	20.1	17.4
	Caucasian American/White	941,206	73	23.0	20.1
	Hispanic	133,569	67	19.6	17.3
	Asian American/Pacific Islander	59,093	80	23.7	21.4
	Other/No Response	134,679	63	22.2	19.0

¹"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

Table 2.5. Average ACT Scores by Race/Ethnicity

Student Group	Race/Ethnicity	English	Mathematics	Reading	Science	Composite
State	All Students	18.6	19.6	19.6	20.1	19.6
	African American/Black	14.0	16.0	15.4	16.5	15.6
	American Indian/Alaska Native	16.4	17.8	17.9	18.7	17.8
	Caucasian American/White	19.8	20.4	20.7	21.0	20.6
	Hispanic	16.0	17.8	17.6	18.3	17.5
	Asian American/Pacific Islander	22.1	23.9	22.2	22.7	22.8
	Other/No Response	17.6	19.0	18.7	19.3	18.8
National	All Students	20.6	21.0	21.4	20.9	21.1
	African American/Black	16.0	17.1	16.9	17.2	16.9
	American Indian/Alaska Native	17.9	18.7	19.4	19.1	18.9
	Caucasian American/White	21.9	21.9	22.6	21.9	22.2
	Hispanic	17.7	19.1	18.9	18.8	18.7
	Asian American/Pacific Islander	22.6	24.5	22.7	22.7	23.2
	Other/No Response	20.4	21.0	21.3	20.7	20.9

Total Students in Report: 121,982

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	3,064	3	2,309	2	3,711	3	1,854	2
	28 to 32	8,690	7	8,349	7	12,103	10	6,612	5
	24 to 27	15,821	13	17,960	15	14,650	12	20,240	17
	20 to 23	25,483	21	20,177	17	28,094	23	36,802	30
	16 to 19	26,515	22	44,830	37	28,057	23	35,188	29
	13 to 15	19,630	16	26,549	22	20,184	17	11,458	9
	01 to 12	22,779	19	1,808	1	15,183	12	9,828	8
National	33 to 36	60,269	4	45,198	3	74,801	5	26,524	2
	28 to 32	154,245	10	139,060	9	205,090	14	104,787	7
	24 to 27	251,396	17	293,477	20	226,630	15	287,693	19
	20 to 23	376,203	25	300,212	20	361,756	24	492,815	33
	16 to 19	303,385	20	495,592	33	334,831	23	367,167	25
	13 to 15	179,194	12	198,214	13	195,336	13	131,197	9
	01 to 12	155,777	11	8,716	1	82,025	6	70,286	5

Table 2.7. Average ACT Scores by Gender

Student Group	Gender	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Males	59,543	49	18.1	20.1	19.3	20.4	19.6
	Females	62,292	51	19.1	19.1	20.0	19.8	19.6
	Missing	147	0	17.3	18.9	18.5	19.2	18.6
National	Males	668,165	45	20.2	21.6	21.3	21.4	21.3
	Females	808,097	55	20.9	20.4	21.4	20.4	20.9
	Missing	4,207	0	20.3	21.2	21.5	20.8	21.1

Table 2.8. Percent of Students Meeting College Readiness Benchmark Scores by Gender

Student Group	Gender	Percent of Students				Meet All Four
		English	Mathematics	Reading	Science	
State	Males	50	35	38	26	20
	Females	57	28	43	21	16
National	Males	65	47	52	33	27
	Females	69	38	53	24	20

Total Students in Report: 121,982

Table 2.9. College Readiness Benchmark (CRB) Percent and Average ACT Scores by Overall High School Curriculum

Student Group	Curriculum Taken ¹	N	English		Mathematics		Reading		Science		Composite	
			CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB % ³	Avg
State	Core or More ²	66,446	68	20.6	44	21.2	53	21.4	33	21.5	26	21.3
	Less than Core	49,183	39	16.4	17	17.8	27	17.8	12	18.5	8	17.8
	Missing	6,353	23	14.0	9	16.5	15	15.7	7	16.7	4	15.8
National	Core or More	1,039,502	75	21.7	50	21.9	59	22.3	34	21.7	28	22.0
	Less than Core	391,458	52	18.3	25	18.9	38	19.4	16	19.2	12	19.1
	Missing	49,509	35	15.9	16	17.5	25	17.3	10	17.6	7	17.2

¹"Curriculum Taken" reflects overall high school curriculum in this table.

²"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

³Composite CRB% results reflect students who meet all four subject-area benchmarks.

Table 2.10. College Readiness Benchmark (CRB) Percent and Average ACT Scores 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 or More	98,692	59	19.4	95,938	38	20.5	101,948	44	20.1	87,568	29	20.9
	Less than Core	19,239	33	15.4	20,699	4	16.2	15,570	24	17.2	29,652	9	18.0
	Missing	4,051	26	14.4	5,345	9	16.4	4,464	17	15.9	4,762	8	16.9
National	Core or More	1,367,549	70	20.9	1,334,313	46	21.4	1,287,169	55	21.7	1,206,541	32	21.5
	Less than Core	73,276	42	16.8	101,413	7	16.5	151,264	41	19.7	230,683	12	18.4
	Missing	39,644	37	16.1	44,743	17	17.5	42,036	26	17.5	43,245	11	17.7

¹"Curriculum Taken" reflects content-specific curriculum in this table.

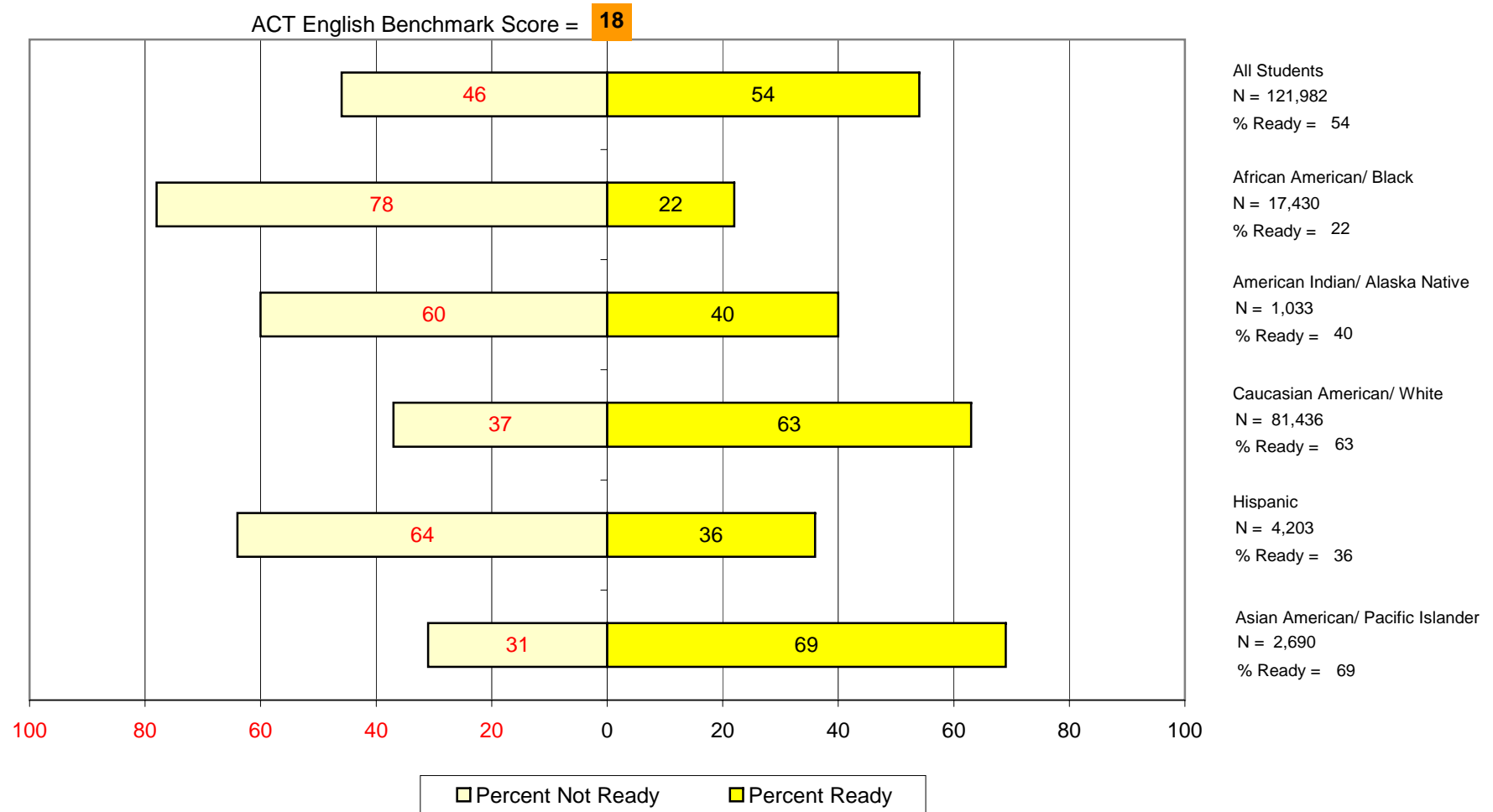
For instance, Reading "Core or More" results correspond to students taking three or more years of social studies, regardless of courses taken in other content areas.

Section III

College Readiness and the Impact of Course Rigor

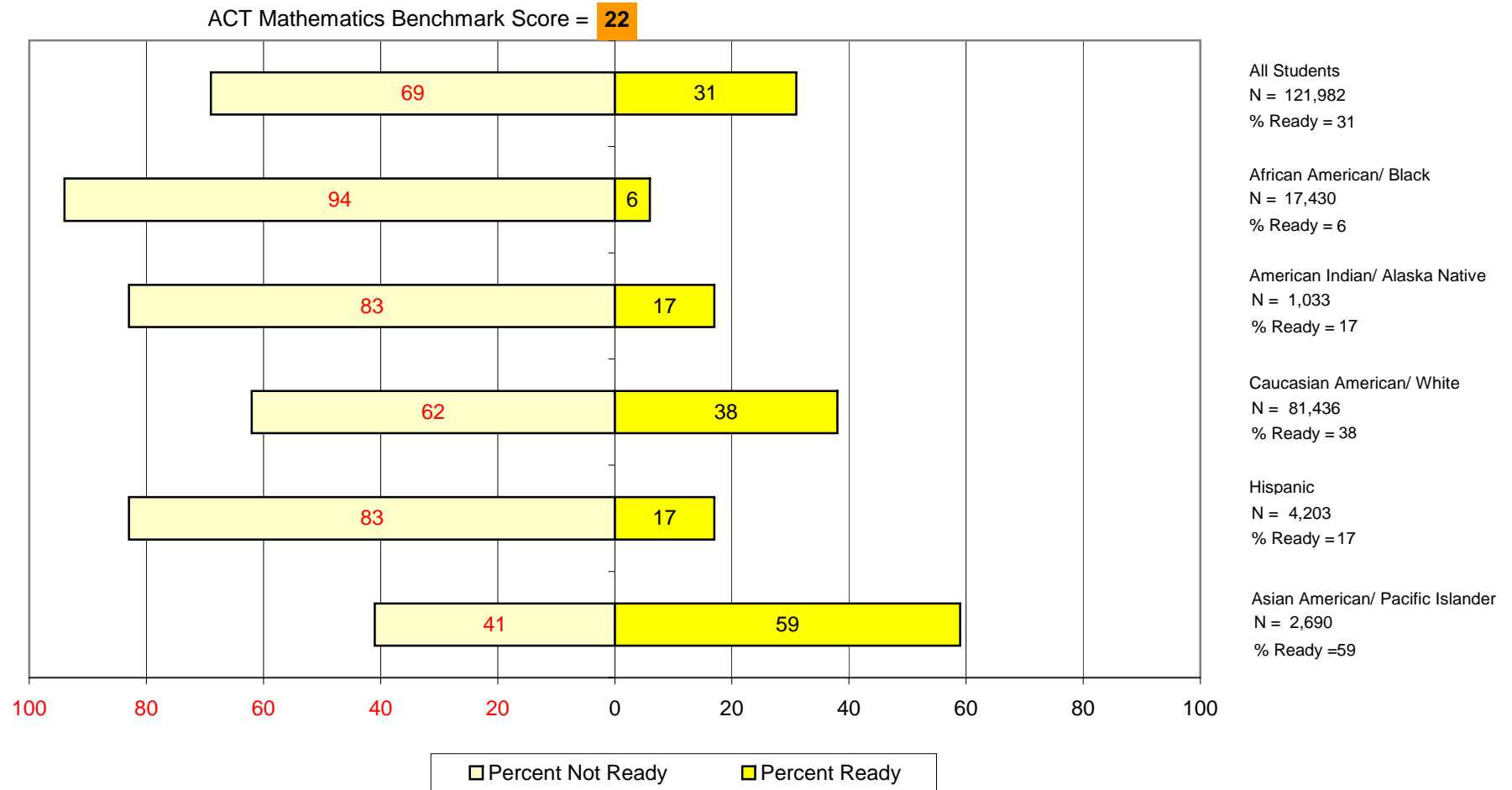
Total Students in Report: 121,982

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



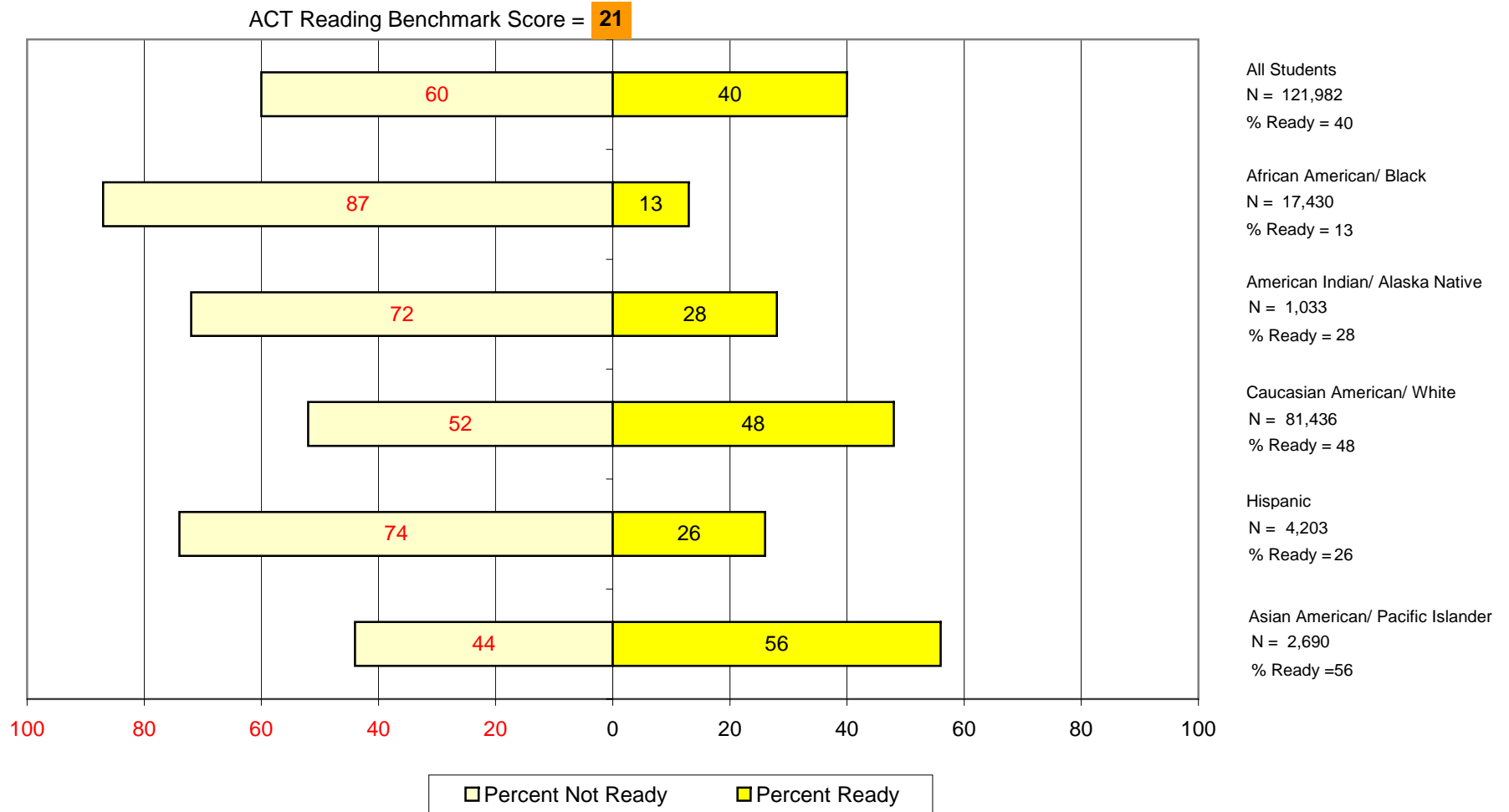
Total Students in Report: 121,982

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



Total Students in Report: 121,982

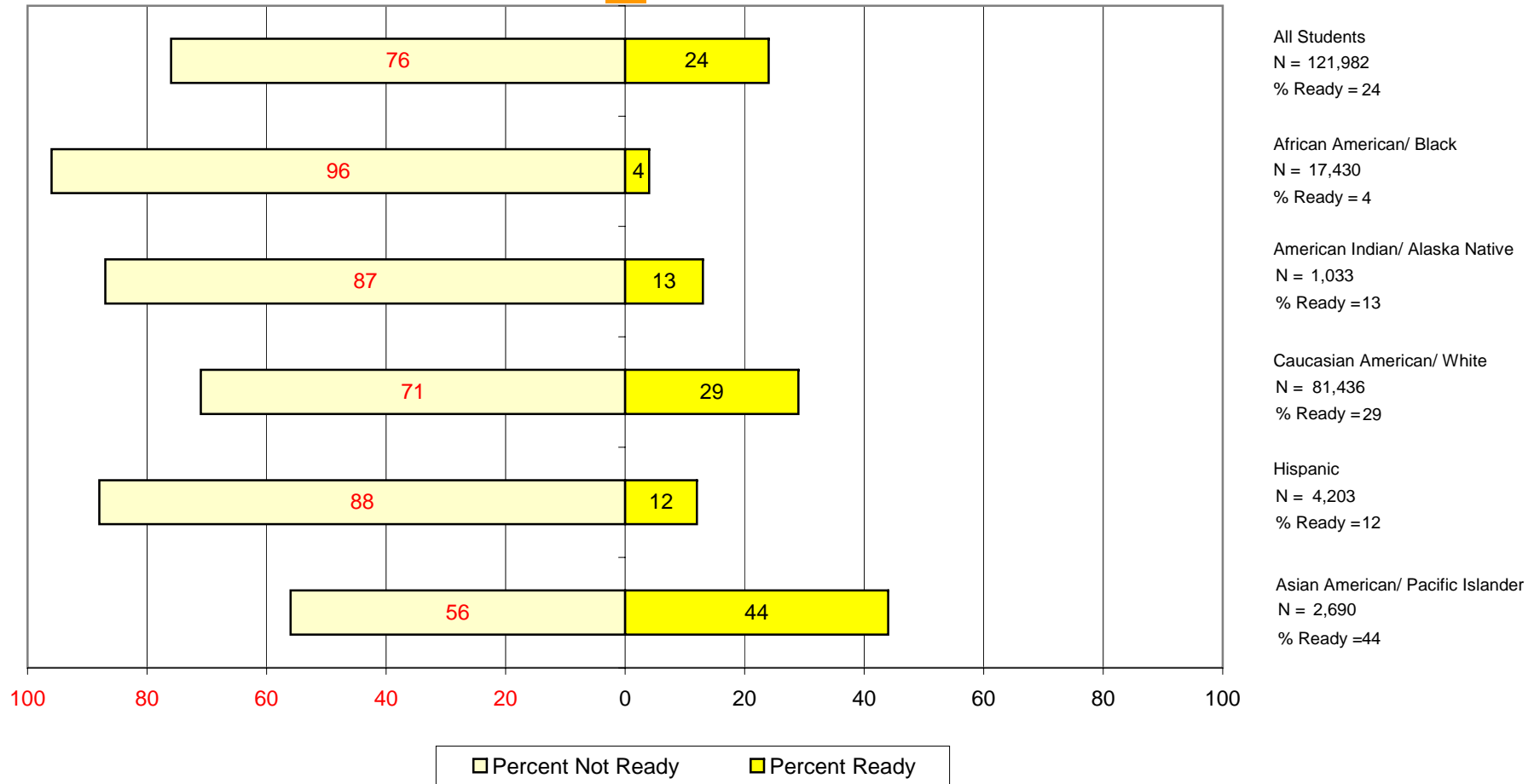
Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: READING



Total Students in Report: 121,982

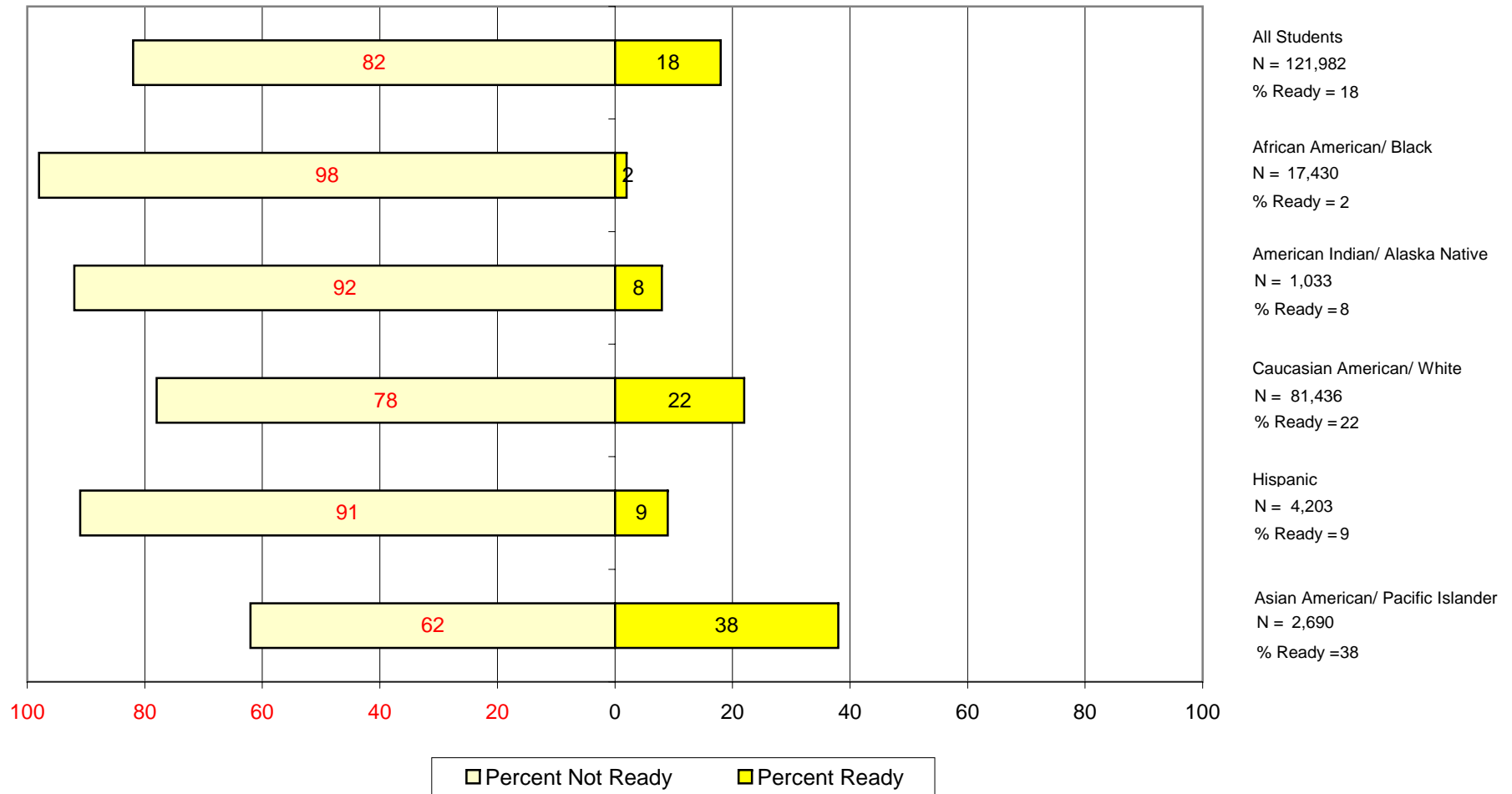
Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

ACT Science Benchmark Score = 24



Total Students in Report: 121,982

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



Total Students in Report: 121,982

Table 3.1. Average ACT Scores and Average ACT 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	30,411	25	20.8	5.4	12,535	21	20.2	5.1	17,844	29	21.2	5.3
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	68,281	56	18.8	3.4	34,207	57	18.5	3.4	34,004	55	19.0	3.1
Less than 4 years of English	19,341	16	15.4	-	10,603	18	15.1	-	8,710	14	15.9	-
No English course/grade information reported	3,949	3	14.4	-	2,198	4	14.2	-	1,734	3	14.6	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	6,329	5	23.3	7.2	3,087	5	24.1	7.7	3,236	5	22.6	6.7
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	9,187	8	21.9	5.8	3,723	6	22.5	6.1	5,452	9	21.4	5.5
Alg 1, Alg 2, Geom, & Trig	9,741	8	19.8	3.7	4,516	8	20.3	3.9	5,215	8	19.4	3.5
Alg 1, Alg 2, Geom, & Other Adv Math	12,273	10	19.6	3.5	5,237	9	20.2	3.8	7,028	11	19.2	3.3
Other comb of 4 or more years of Math	29,054	24	23.0	6.9	15,215	26	23.7	7.3	13,820	22	22.2	6.3
Alg 1, Alg 2, & Geom (Min. Core)	23,106	19	17.4	1.3	11,006	18	17.7	1.3	12,071	19	17.0	1.1
Other comb of 3 or 3.5 years of Math	6,248	5	18.5	2.4	3,080	5	19.0	2.6	3,154	5	18.1	2.2
Less than 3 years of Math	21,742	18	16.1	-	11,293	19	16.4	-	10,417	17	15.9	-
No Math course/grade information reported	4,302	4	16.7	-	2,386	4	17.0	-	1,899	3	16.2	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	2,142	2	22.2	5.0	1,232	2	21.8	5.0	905	1	22.7	5.0
Other comb of 4 or more years Social Science	53,677	44	20.4	3.2	24,886	42	20.1	3.3	28,731	46	20.6	2.9
US Hist, World Hist, & Am Gov (Min. Core)	4,493	4	19.4	2.2	2,591	4	19.1	2.3	1,897	3	19.7	2.0
Other comb of 3 or 3.5 years of Social Science	41,636	34	19.8	2.6	19,792	33	19.5	2.7	21,816	35	20.1	2.4
Less than 3 years of Social Science	15,860	13	17.2	-	8,697	15	16.8	-	7,131	11	17.7	-
No Soc Sci course/grade information reported	4,174	3	16.0	-	2,345	4	15.8	-	1,812	3	16.2	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	39,320	32	21.4	3.4	20,306	34	21.9	3.9	18,980	30	20.8	2.8
Bio, Chem, Phys	8,148	7	23.8	5.8	4,157	7	24.5	6.5	3,981	6	23.1	5.1
Gen Sci ² , Bio, Chem (Min. Core)	35,463	29	20.0	2.0	14,854	25	20.1	2.1	20,570	33	19.9	1.9
Other comb of 3 years of Natural Science	4,637	4	19.1	1.1	2,663	4	19.6	1.6	1,966	3	18.4	0.4
Less than 3 years of Natural Science	30,121	25	18.0	-	15,154	25	18.0	-	14,929	24	18.0	-
No Nat Sci course/grade information reported	4,293	4	17.0	-	2,409	4	17.2	-	1,866	3	16.7	-

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.

Total Students in Report: 121,982

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	30,411	25	20.8	69	338,118	23	22.0	76
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	68,281	56	18.8	55	1,029,431	70	20.6	68
Less than 4 years of English	19,341	16	15.4	32	74,090	5	16.7	42
No English course/grade information reported	3,949	3	14.4	26	38,830	3	16.1	37
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	6,329	5	23.3	63	92,630	6	24.5	71
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	9,187	8	21.9	52	135,244	9	22.1	56
Alg 1, Alg 2, Geom, & Trig	9,741	8	19.8	34	110,962	7	20.0	35
Alg 1, Alg 2, Geom, & Other Adv Math	12,273	10	19.6	31	220,868	15	20.1	36
Other comb of 4 or more years of Math	29,054	24	23.0	59	455,130	31	23.9	66
Alg 1, Alg 2, & Geom (Min. Core)	23,106	19	17.4	11	248,747	17	17.5	12
Other comb of 3 or 3.5 years of Math	6,248	5	18.5	21	70,732	5	20.1	35
Less than 3 years of Math	21,742	18	16.1	4	105,591	7	16.5	7
No Math course/grade information reported	4,302	4	16.7	11	40,565	3	17.7	18
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	2,142	2	22.2	56	46,754	3	22.8	61
Other comb of 4 or more years Social Science	53,677	44	20.4	46	735,636	50	22.0	57
US Hist, World Hist, & Am Gov (Min. Core)	4,493	4	19.4	39	84,543	6	20.6	47
Other comb of 3 or 3.5 years of Social Science	41,636	34	19.8	41	420,236	28	21.3	52
Less than 3 years of Social Science	15,860	13	17.2	24	152,775	10	19.7	40
No Soc Sci course/grade information reported	4,174	3	16.0	18	40,525	3	17.5	26
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	39,320	32	21.4	34	563,824	38	22.2	39
Bio, Chem, Phys	8,148	7	23.8	52	141,531	10	23.3	47
Gen Sci ¹ , Bio, Chem (Min. Core)	35,463	29	20.0	20	459,833	31	20.1	21
Other comb of 3 years of Natural Science	4,637	4	19.1	16	41,353	3	19.8	21
Less than 3 years of Natural Science	30,121	25	18.0	9	233,215	16	18.4	11
No Nat Sci course/grade information reported	4,293	4	17.0	9	40,713	3	17.7	11

¹Includes General, Physical and Earth Sciences.

Section IV

Career and Educational Aspirations

Table 4.1. Distribution of Planned Educational Majors for All Students 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	1,768	1	17.6	441	3	15.7	1,195	1	18.4
Architecture & Environmental Design	2,495	2	19.4	313	2	15.8	2,051	2	20.2
Business & Management	11,011	9	19.8	1,037	7	15.7	9,532	10	20.3
Business & Office	750	1	18.1	136	1	16.2	582	1	18.6
Marketing & Distribution	975	1	18.9	99	1	14.9	826	1	19.5
Communications & Comm. Technologies	3,545	3	20.3	383	3	16.3	2,984	3	20.9
Community & Personal Services	5,783	5	17.5	1,330	9	16.0	4,019	4	18.1
Computer & Information Sciences	3,083	3	20.3	404	3	16.9	2,532	3	20.9
Cross-Disciplinary Studies	106	0	23.3	5	0	13.4	96	0	24.0
Education	3,484	3	20.1	194	1	16.0	3,155	3	20.4
Teacher Education	3,331	3	20.0	148	1	15.0	3,030	3	20.3
Engineering	6,282	5	20.9	877	6	15.4	5,108	6	22.0
Engineering-Related Technologies	3,365	3	19.7	644	5	15.8	2,544	3	20.9
Foreign Languages	594	0	21.7	38	0	15.1	515	1	22.5
Health Sciences & Allied Health Fields	25,216	21	20.0	1,862	13	16.1	22,356	24	20.5
Human, Family & Consumer Science	2,656	2	17.4	615	4	16.0	1,825	2	18.0
Letters	988	1	23.3	68	0	19.0	873	1	23.8
Mathematics	497	0	24.0	22	0	15.9	454	0	24.6
Philosophy, Religion & Theology	535	0	22.0	26	0	17.8	468	1	22.3
Sciences (Biological & Physical)	4,475	4	22.8	128	1	16.6	4,170	5	23.1
Social Sciences	7,166	6	21.3	195	1	16.5	6,711	7	21.6
Trade & Industrial	2,947	2	17.0	1,554	11	16.5	1,200	1	17.9
Visual & Performing Arts	8,831	7	19.5	1,306	9	16.4	6,876	7	20.2
Undecided	9,380	8	20.2	1,240	9	15.9	7,112	8	21.2
No Response	12,719	10	16.6	1,044	7	14.4	1,636	2	16.4

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

²Percent of students tested within College Plan groups (All Students, 2-Year, 4-Year).

Total Students in Report: 121,982

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 American/ Black		American Indian/ Alaska Native		Caucasian American/White		Hispanic		Asian American/ Pacific Islander		Other/No Response	
	N	Average	N	Average	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	3,780	15.8	456	13.6	48	14.5	2,552	16.5	185	14.5	25	16.0	514	15.3
2-yr College Degree	10,329	16.0	1,569	13.5	114	15.5	6,705	16.7	493	14.7	89	15.3	1,359	15.6
Bachelors Degree	43,040	19.4	5,094	15.3	358	18.3	31,215	20.3	1,310	17.6	641	19.7	4,422	18.4
Graduate Study	17,287	22.0	2,058	17.0	101	19.3	12,233	23.0	460	20.0	465	24.4	1,970	21.0
Prof. Level Degree	31,523	21.4	5,199	16.9	233	19.5	19,582	22.5	1,131	19.3	1,217	25.3	4,161	20.8
Other	4,461	17.0	637	14.5	52	15.6	2,729	17.7	166	15.9	63	17.7	814	16.8
No Response	11,562	17.3	2,417	14.2	127	16.3	6,420	18.7	458	15.4	190	19.8	1,950	16.9

Total Students in Report: 121,982

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	
MICHIGAN STATE UNIVERSITY	Michigan	28,440	10,279	18,161	3	12	23	27	22	11	1	
CENTRAL MICHIGAN UNIVERSITY	Michigan	19,796	5,259	14,537	2	13	33	31	16	5	0	
UNIVERSITY OF MICHIGAN-ANN ARBOR	Michigan	18,547	7,053	11,494	2	9	18	22	26	20	4	
GRAND VALLEY STATE UNIVERSITY	Michigan	16,727	4,423	12,304	2	9	26	32	22	8	0	
WESTERN MICHIGAN UNIVERSITY	Michigan	15,336	3,542	11,794	2	13	32	31	17	5	0	
STATE-COLLEGE/NO REPORTS NOW	Iowa	14,610	14,610	0	9	27	31	18	9	5	1	
FERRIS STATE UNIVERSITY	Michigan	10,835	3,103	7,732	3	17	37	27	13	3	0	
EASTERN MICHIGAN UNIVERSITY	Michigan	10,159	2,551	7,608	5	21	34	25	11	3	0	
WAYNE STATE UNIVERSITY	Michigan	10,129	2,868	7,261	8	25	31	20	11	4	0	
OAKLAND UNIVERSITY	Michigan	7,538	1,886	5,652	3	15	32	29	15	5	0	
SAGINAW VALLEY STATE UNIVERSITY	Michigan	6,369	1,686	4,683	3	17	35	27	13	4	0	
GRAND RAPIDS COMMUNITY COLLEGE	Michigan	4,685	1,848	2,837	7	24	36	23	8	2	0	
NORTHERN MICHIGAN UNIVERSITY	Michigan	4,472	1,416	3,056	2	13	32	31	16	5	0	
MICHIGAN TECHNOLOGICAL UNIVERSITY	Michigan	4,362	1,212	3,150	4	12	23	25	21	13	2	
UNIVERSITY OF MICHIGAN-DEARBORN	Michigan	3,595	846	2,749	4	18	28	27	16	6	1	
OAKLAND COMMUNITY COLLEGE	Michigan	3,055	952	2,103	7	30	37	20	5	1	0	
MACOMB COMMUNITY COLLEGE	Michigan	2,994	1,237	1,757	8	29	39	19	5	1	0	
UNIVERSITY OF MICHIGAN-FLINT	Michigan	2,805	726	2,079	4	17	34	26	14	4	0	
LANSING COMMUNITY COLLEGE	Michigan	2,682	1,042	1,640	6	24	38	22	8	2	0	
NCAA ELIGIBILITY CENTER	Indiana	2,668	1,231	1,437	4	16	32	26	15	7	1	
HENRY FORD COMMUNITY COLLEGE	Michigan	2,582	809	1,773	13	35	34	14	3	1	0	
MICHIGAN HIGHER EDUC ASST AUTHORITY	Michigan	2,477	1,109	1,368	4	15	27	24	17	11	2	
ITT TECHNICAL INSTITUTE-SWARTZ CREEK	Michigan	2,291	543	1,748	8	30	36	19	5	1	0	
DELTA COLLEGE	Michigan	2,285	1,010	1,275	5	25	38	22	8	2	0	
KALAMAZOO VALLEY COMMUNITY COLLEGE	Michigan	2,143	763	1,380	7	25	40	20	7	1	0	
STATE-NO COLLEGE PLANS	Iowa	2,090	2,090	0	20	43	27	9	2	1	0	
UNIVERSITY OF DETROIT MERCY	Michigan	2,084	433	1,651	7	24	31	21	12	5	0	
SCHOOLCRAFT COLLEGE	Michigan	2,079	668	1,411	6	26	38	21	7	1	0	
HOPE COLLEGE	Michigan	2,026	485	1,541	1	6	18	28	29	17	1	
LAKE SUPERIOR STATE UNIVERSITY	Michigan	2,016	517	1,499	2	13	36	29	15	5	0	
All Other Institutions		121,909	31,073	90,836	6	21	29	21	13	8	2	
Total		333,786	107,270	226,516	5	18	29	24	15	7	1	

Section V Optional Writing Test Results

Total Students in Report: 121,982

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	109,436	814,713	18.3	21.5	6.7	7.2	18.1	20.8
African American/Black	15,722	96,225	13.8	16.5	6.1	6.4	14.2	16.5
American Indian/Alaska Native	938	5,489	16.2	18.9	6.2	6.7	16.0	18.5
Caucasian American/White	72,194	497,164	19.5	22.8	6.9	7.3	19.1	21.9
Hispanic	3,901	85,681	15.8	18.4	6.5	7.0	16.0	18.4
Asian American/Pacific Islander	2,423	44,716	22.2	23.5	7.5	7.6	21.7	22.8
Other/No Response	14,258	85,438	17.4	21.4	6.5	7.2	17.3	20.8
Males	53,677	357,025	17.9	21.1	6.3	6.9	17.4	20.3
Females	55,628	455,190	18.8	21.7	7.0	7.4	18.8	21.2
Missing	131	2,498	17.2	22.1	6.4	7.2	16.9	21.3

