

ACT High School Profile Report

The Graduating Class of 2008
Michigan



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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

17% 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. 123,918 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. 49% 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 20% of the cohort took less than three years of math courses. Of these students, 5% were college ready. 18% of the cohort reported taking the minimum core (Algebra I, Algebra II, and Geometry). 11% of these students were college ready. In comparison, 47% 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 28% of the cohort took less than three years of natural science courses. 8% of these students were college ready. In comparison, 28% 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.

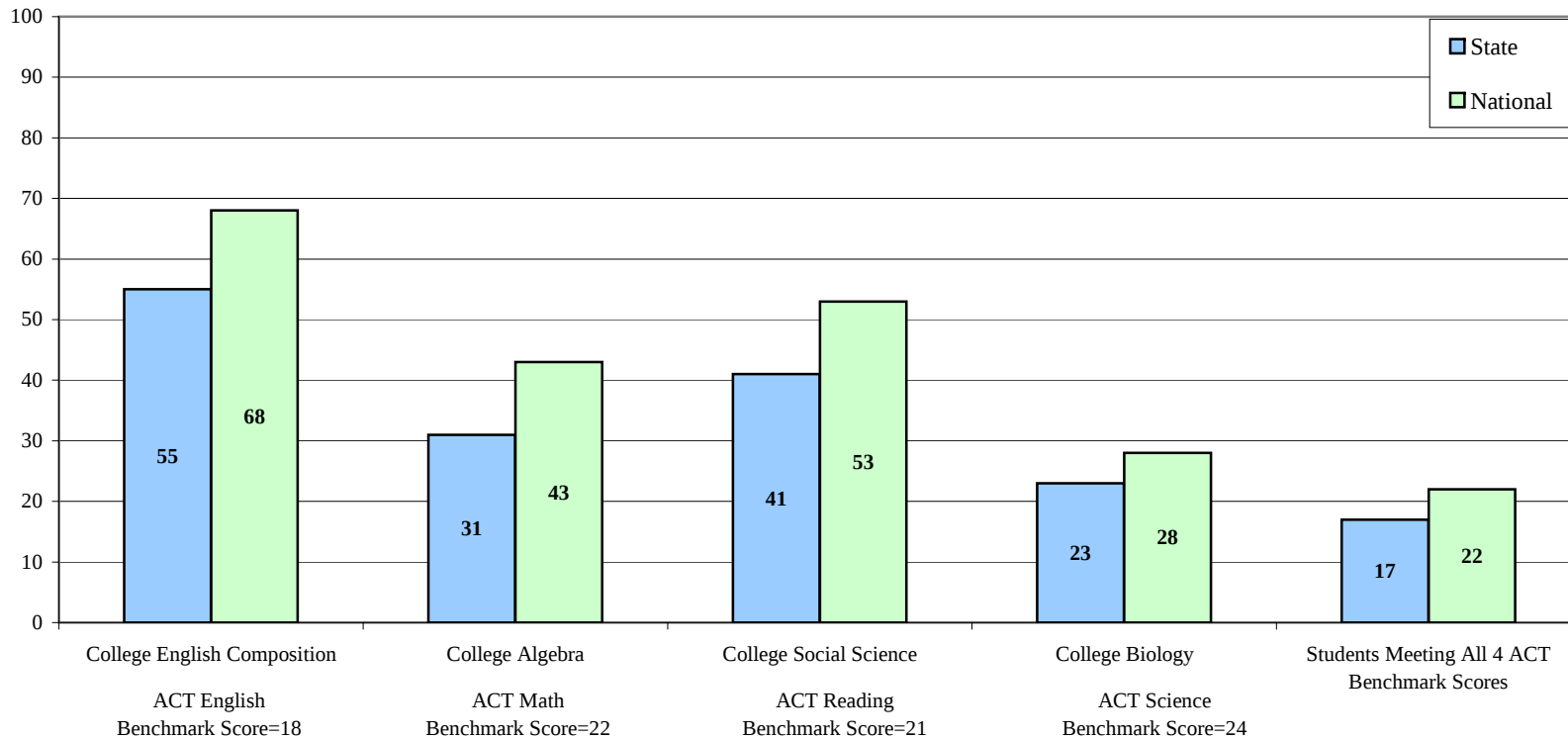
PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS. Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether among students with similar aspirations, academic performance is consistent across racial/ethnic groups.

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

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	73,434	1,171,460	69	68	44	40	56	52	31	26	24	21
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

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	73,434	1,171,460	20.5	20.4	21.1	20.7	21.8	21.3	21.5	20.9	21.4	20.9
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

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									
					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	Core or More	Less than Core	Core or More	Less than Core
2004	39,913	29,643	54	40	21.8	18.8	22.4	19.3	22.9	20.4	22.5	20.2	22.5	19.8
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

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	73,434	100	21.4	74,307	100	21.4	72,751	100	21.5	78,135	100	21.5	123,918	100	19.6
African American/Black	7,706	10	17.0	8,216	11	17.0	7,985	11	17.1	9,285	12	16.9	16,952	14	15.8
American Indian/Alaska Native	465	1	20.2	440	1	20.2	456	1	20.1	500	1	20.4	1,068	1	17.8
Caucasian American/White	54,389	74	21.9	54,397	73	22.1	51,954	71	22.1	52,309	67	22.2	82,209	66	20.4
Hispanic	1,604	2	19.8	1,678	2	19.8	1,714	2	19.9	1,901	2	19.8	4,065	3	17.6
Asian American/Pacific Islander	1,908	3	23.0	2,100	3	23.0	2,019	3	23.1	1,935	2	23.5	2,700	2	22.5
Other/No Response	7,362	10	21.6	7,476	10	21.5	8,623	12	21.5	12,205	16	21.9	16,924	14	19.4

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	96	100	207	100	414	100	193	100	19	100	36
35	806	100	553	100	738	100	368	100	158	100	35
34	959	99	510	99	928	99	566	100	369	100	34
33	875	98	835	99	1,863	98	779	99	593	100	33
32	983	98	716	98	1,624	97	337	98	908	99	32
31	1,160	97	859	98	1,801	96	1,100	98	1,210	98	31
30	2,050	96	1,751	97	2,480	94	813	97	1,654	97	30
29	2,465	94	1,711	96	2,375	92	1,501	97	2,065	96	29
28	1,862	92	2,700	94	3,133	90	2,134	95	2,585	94	28
27	2,894	91	3,274	92	4,426	88	2,875	94	3,376	92	27
26	3,323	89	4,693	89	3,351	84	3,708	91	4,070	90	26
25	4,214	86	4,742	86	3,686	81	7,694	88	4,713	86	25
24	4,360	82	6,179	82	6,475	78	6,060	82	5,675	82	24
23	5,686	79	5,393	77	6,225	73	8,656	77	6,683	78	23
22	5,736	74	4,793	72	4,901	68	7,719	70	7,279	72	22
21	8,783	70	6,070	69	6,719	64	9,809	64	7,908	67	21
20	7,959	63	5,234	64	6,417	59	11,784	56	8,346	60	20
19	6,957	56	6,846	59	10,251	54	11,318	47	8,915	54	19
18	6,594	51	10,280	54	5,757	45	9,030	38	9,308	46	18
17	6,536	45	11,381	46	6,214	41	8,095	30	9,488	39	17
16	7,447	40	17,227	36	8,004	36	5,233	24	9,203	31	16
15	9,846	34	13,739	23	9,277	29	4,898	19	8,702	24	15
14	6,192	26	7,458	11	7,185	22	4,571	16	7,951	17	14
13	5,483	21	4,773	5	8,019	16	5,820	12	6,389	10	13
12	5,051	17	1,395	2	6,345	9	3,090	7	4,112	5	12
11	3,340	13	327	1	2,704	4	2,465	5	1,650	2	11
10	4,165	10	203	1	1,716	2	2,198	3	408	1	10
9	3,331	7	35	1	205	1	628	1	112	1	9
8	2,424	4	0	1	373	1	285	1	40	1	8
7	1,494	2	19	1	169	1	114	1	20	1	7
6	571	1	1	1	31	1	35	1	7	1	6
5	174	1	10	1	78	1	13	1	1	1	5
4	62	1	2	1	20	1	11	1	1	1	4
3	29	1	0	1	1	1	13	1	0	1	3
2	7	1	2	1	9	1	0	1	0	1	2
1	4	1	0	1	4	1	5	1	0	1	1
Avg (SD)	18.7 (6.2)		19.5 (5.0)		19.8 (6.0)		19.9 (5.0)		19.6 (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	2,523	100	391	100	1,672	100	1,646	100	2,774	100	608	100	534	100	18
17	2,729	98	2,309	100	3,885	99	5,693	99	3,418	98	1,326	100	424	100	17
16	3,997	96	3,086	98	5,202	96	5,835	94	4,258	95	1,066	98	3,276	99	16
15	3,302	93	5,902	95	5,049	91	6,786	89	4,274	92	2,591	98	3,386	97	15
14	5,260	90	5,909	91	7,549	87	4,009	84	9,093	88	7,435	95	8,896	94	14
13	6,569	86	6,130	86	8,524	81	6,079	81	7,505	81	8,669	89	7,205	87	13
12	7,076	80	12,717	81	8,498	74	8,741	76	9,814	75	7,821	82	9,372	81	12
11	8,684	75	11,457	71	10,184	67	11,602	69	7,194	67	15,662	76	16,621	73	11
10	13,278	68	15,574	61	12,783	59	10,479	59	12,563	61	17,067	64	17,363	60	10
9	10,164	57	14,348	49	12,216	49	11,133	51	7,395	51	21,341	50	15,899	46	9
8	13,129	49	14,628	37	21,492	39	10,476	42	19,617	45	13,746	33	14,511	33	8
7	13,685	38	10,954	25	10,199	22	15,032	33	20,909	29	11,469	21	11,731	21	7
6	11,729	27	5,768	17	8,692	13	8,371	21	10,291	12	6,959	12	3,241	12	6
5	8,674	18	7,938	12	1,470	6	10,885	15	2,983	4	1,723	7	5,404	9	5
4	6,992	11	4,642	5	3,553	5	4,520	6	1,308	1	4,378	5	1,721	5	4
3	3,934	5	1,746	2	2,040	2	1,699	2	218	1	1,500	2	3,151	3	3
2	1,871	2	372	1	703	1	878	1	262	1	219	1	819	1	2
1	322	1	47	1	207	1	54	1	42	1	338	1	364	1	1
Avg (SD)	9.1 (3.8)		9.7 (3.3)		10.1 (3.5)		9.8 (3.8)		10.0 (3.4)		9.7 (2.9)		9.8 (3.1)		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)	23	23	24	23	23
Q2 (50th Percentile)	18	18	19	20	19
Q1 (25th Percentile)	14	16	15	17	16

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	123,918	49	21.2	17.9
	African Am./Black	16,952	53	16.6	15.0
	Am. Indian/Alaska Native	1,068	37	19.7	16.8
	Caucasian Am./White	82,209	49	22.3	18.5
	Hispanic	4,065	44	19.1	16.4
	Asian Am./Pacific Islander	2,700	65	23.6	20.0
	Other/No Response	16,924	43	21.0	17.6
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	18.7	19.5	19.8	19.9	19.6
	African Am./Black	14.5	15.9	15.9	16.4	15.8
	Am. Indian/Alaska Native	16.6	17.8	18.1	18.3	17.8
	Caucasian Am./White	19.6	20.2	20.7	20.7	20.4
	Hispanic	16.1	17.7	17.9	18.1	17.6
	Asian Am./Pacific Islander	21.8	23.5	21.9	22.5	22.5
	Other/No Response	18.5	19.4	19.6	19.5	19.4
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	2,736	2	2,105	2	3,943	3	1,906	2
	28 to 32	8,520	7	7,737	6	11,413	9	5,885	5
	24 to 27	14,791	12	18,888	15	17,938	14	20,337	16
	20 to 23	28,164	23	21,490	17	24,262	20	37,968	31
	16 to 19	27,534	22	45,734	37	30,226	24	33,676	27
	13 to 15	21,521	17	25,970	21	24,481	20	15,289	12
	01 to 12	20,652	17	1,994	2	11,655	9	8,857	7
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	59,641	48	18.1	19.9	19.4	20.1	19.5
	Females	62,685	51	19.0	19.1	20.1	19.7	19.6
	Missing	1,592	1	22.7	23.0	22.9	22.5	22.9
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	51	34	39	25	18
	Females	57	28	43	20	15
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	60,338	68	20.5	44	21.0	52	21.4	32	21.4	25	21.2
	Non-Core	52,434	41	16.7	17	17.8	29	18.1	12	18.4	7	17.9
	Missing	11,146	48	17.8	30	19.2	37	19.0	22	19.0	18	18.9
National	Core	873,743	75	21.6	50	21.9	59	22.3	33	21.6	27	22.0
	Non-Core	431,748	56	18.8	29	19.3	41	19.9	18	19.4	14	19.5
	Missing	116,450	62	19.9	42	20.8	48	20.8	27	20.3	23	20.6

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	96,755	58	19.1	91,050	38	20.4	98,351	43	20.1	81,141	28	20.8
	Non-Core	19,197	36	16.0	22,812	5	16.2	17,070	28	17.8	33,898	8	17.7
	Missing	7,966	57	19.1	10,056	31	19.3	8,497	44	20.0	8,879	26	19.8
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

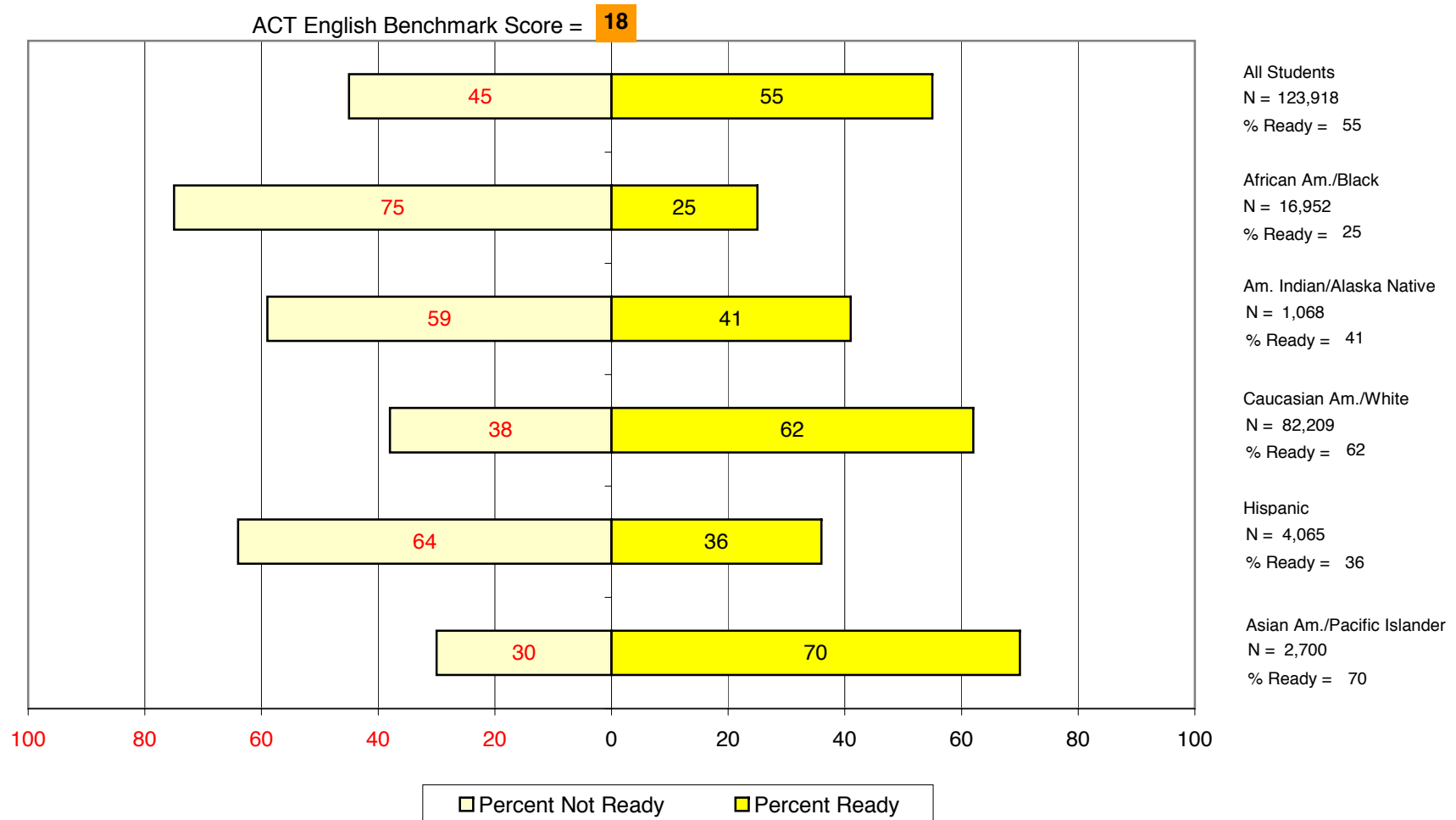


Figure 3.2. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

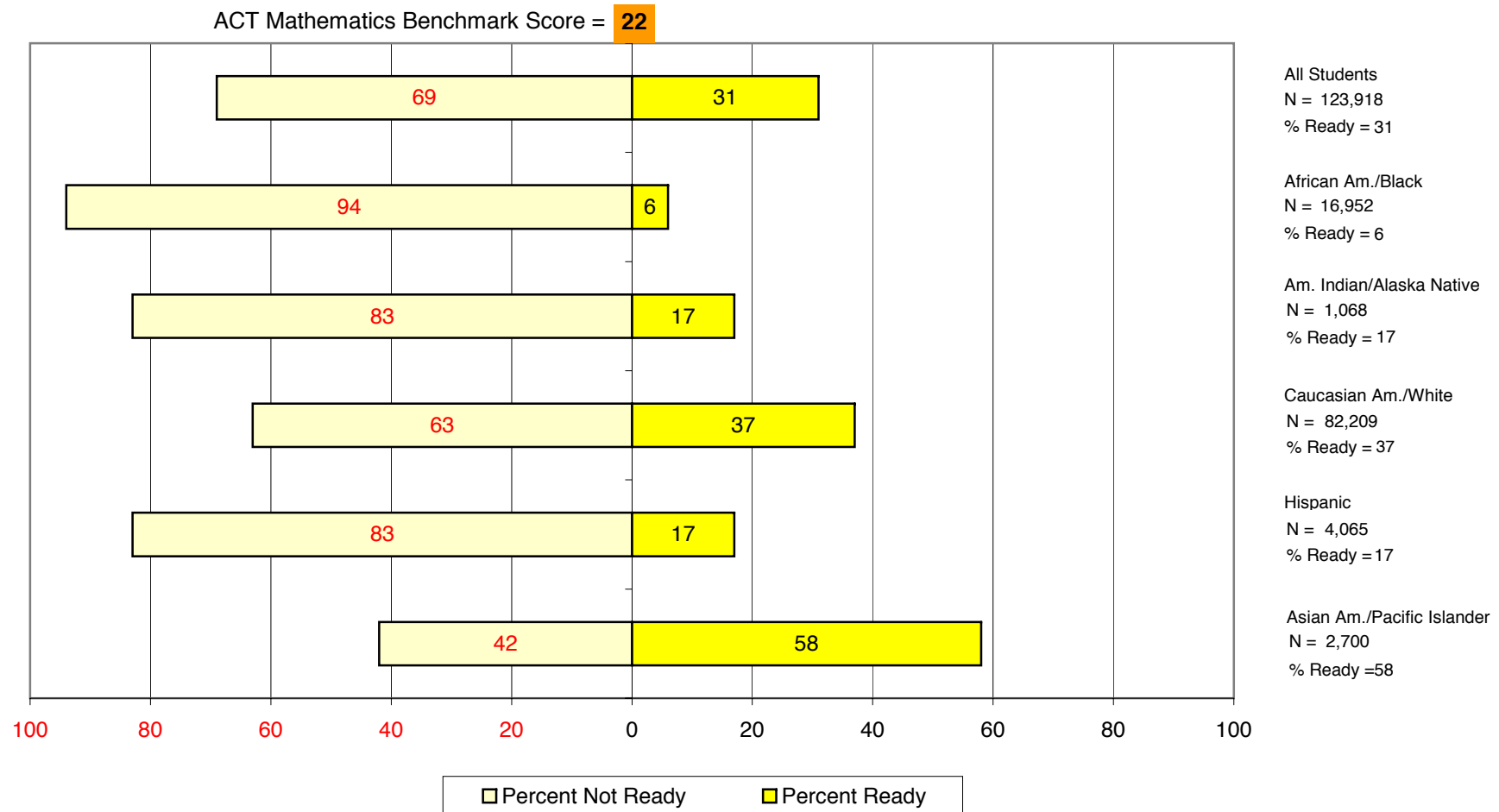


Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: READING

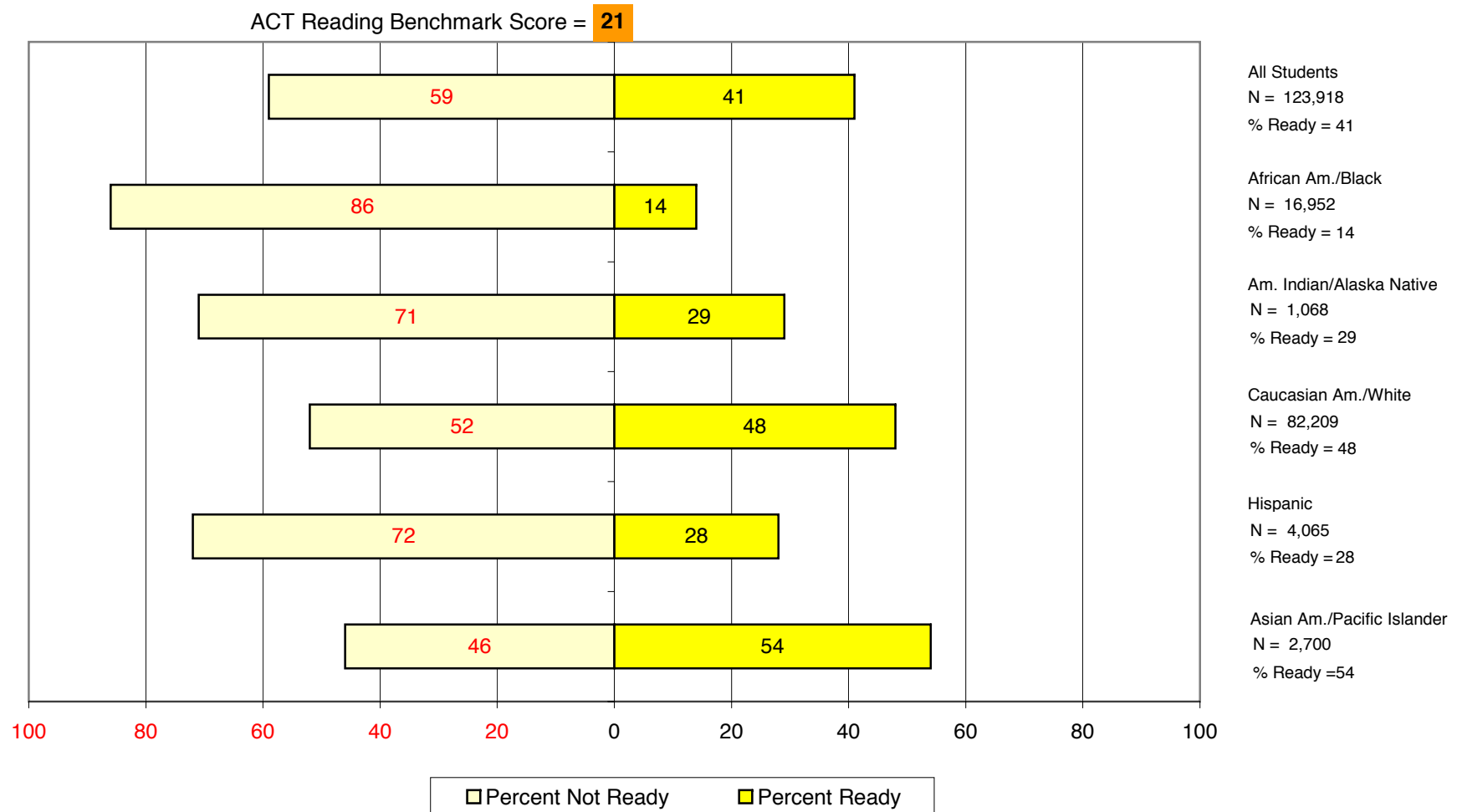


Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

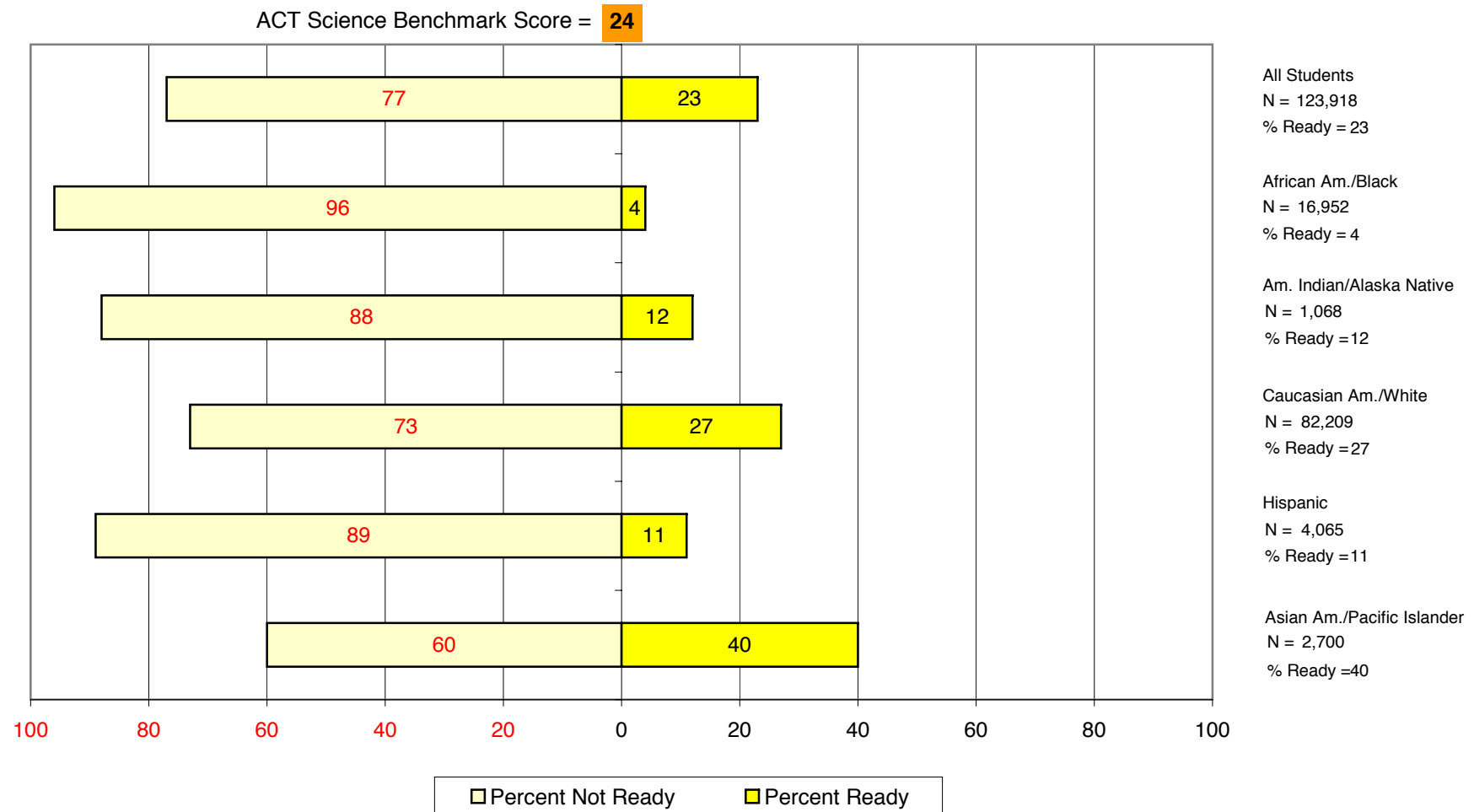


Figure 3.5. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR

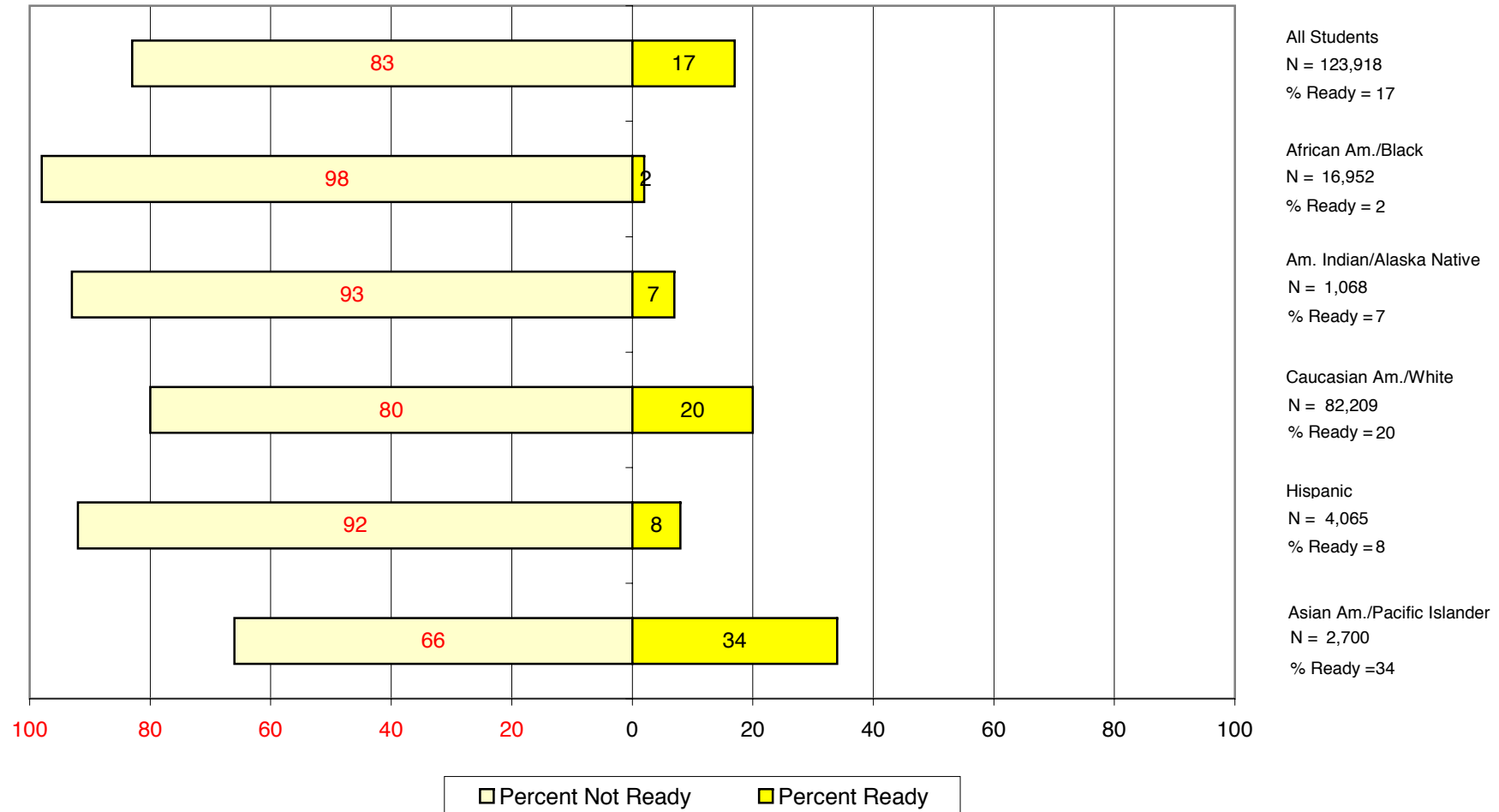


Table 3.1. Average ACT Scores and ACT Average Score Changes by Common Course Patterns

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	29,168	24	20.4	4.4	11,761	20	19.9	4.3	17,182	27	20.7	4.3
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	67,587	55	18.6	2.6	33,540	56	18.3	2.7	33,545	54	18.8	2.4
Less than 4 years of English	19,338	16	16.0	-	10,591	18	15.6	-	8,558	14	16.4	-
No English course/grade information reported	7,825	6	19.2	-	3,749	6	18.0	-	3,400	5	19.6	-
MATHEMATICS COURSE PATTERN												
	N	Percent	ACT Math	Course Value Added ¹	N	Percent	ACT Math	Course Value Added ¹	N	Percent	ACT Math	Course Value Added ¹
Alg 1, Alg 2, Geom, Trig, & Calc	6,324	5	23.5	7.4	3,078	5	24.1	7.8	3,174	5	22.9	7.0
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	8,834	7	21.9	5.8	3,575	6	22.4	6.1	5,176	8	21.5	5.6
Alg 1, Alg 2, Geom, & Trig	10,275	8	20.0	3.9	4,781	8	20.5	4.2	5,377	9	19.6	3.7
Alg 1, Alg 2, Geom, & Other Adv Math	11,480	9	19.4	3.3	4,814	8	20.0	3.7	6,600	11	19.0	3.1
Other comb of 4 or more years of Math	25,890	21	22.6	6.5	13,271	22	23.3	7.0	12,388	20	21.8	5.9
Alg 1, Alg 2, & Geom (Min. Core)	21,938	18	17.4	1.3	10,270	17	17.7	1.4	11,533	18	17.1	1.2
Other comb of 3 or 3.5 years of Math	6,309	5	18.7	2.6	3,156	5	19.2	2.9	3,106	5	18.2	2.3
Less than 3 years of Math	24,473	20	16.1	-	12,617	21	16.3	-	11,708	19	15.9	-
No Math course/grade information reported	8,395	7	20.0	-	4,079	7	19.7	-	3,623	6	19.5	-
SOCIAL SCIENCE COURSE PATTERN												
	N	Percent	ACT Reading	Course Value Added ¹	N	Percent	ACT Reading	Course Value Added ¹	N	Percent	ACT Reading	Course Value Added ¹
US Hist, World Hist, Am Gov, & Other Hist	2,194	2	22.1	4.3	1,216	2	21.3	3.8	955	2	23.0	4.8
Other comb of 4 or more years Social Science	49,337	40	20.3	2.5	22,687	38	20.1	2.6	26,285	42	20.5	2.3
US Hist, World Hist, & Am Gov (Min. Core)	4,702	4	19.7	1.9	2,699	5	19.1	1.6	1,952	3	20.3	2.1
Other comb of 3 or 3.5 years of Social Science	42,118	34	19.8	2.0	19,566	33	19.5	2.0	22,239	35	20.1	1.9
Less than 3 years of Social Science	17,426	14	17.8	-	9,541	16	17.5	-	7,737	12	18.2	-
No Soc Sci course/grade information reported	8,141	7	20.1	-	3,932	7	19.2	-	3,517	6	20.3	-
NATURAL SCIENCE COURSE PATTERN												
	N	Percent	ACT Science	Course Value Added ¹	N	Percent	ACT Science	Course Value Added ¹	N	Percent	ACT Science	Course Value Added ¹
Gen Sci ² , Bio, Chem, & Phys	35,101	28	21.3	3.6	17,919	30	21.8	4.2	16,890	27	20.7	2.8
Bio, Chem, Phys	7,723	6	23.7	6.0	3,942	7	24.4	6.8	3,694	6	23.0	5.1
Gen Sci ² , Bio, Chem (Min. Core)	33,745	27	19.9	2.2	13,904	23	19.9	2.3	19,576	31	19.9	2.0
Other comb of 3 years of Natural Science	4,572	4	19.2	1.5	2,562	4	19.7	2.1	1,972	3	18.5	0.6
Less than 3 years of Natural Science	34,500	28	17.7	-	17,317	29	17.6	-	16,973	27	17.9	-
No Nat Sci course/grade information reported	8,277	7	20.0	-	3,997	7	19.5	-	3,580	6	19.8	-

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	29,168	24	20.4	67	266,394	19	21.8	76
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	67,587	55	18.6	54	949,721	67	20.5	68
Less than 4 years of English	19,338	16	16.0	36	112,496	8	18.8	56
No English course/grade information reported	7,825	6	19.2	57	93,330	7	20.2	64
MATHEMATICS COURSE PATTERN								
	N	Percent Taking Pattern	Avg ACT Math	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT Math	Percent Meeting Benchmark
Alg 1, Alg 2, Geom, Trig, & Calc	6,324	5	23.5	66	91,985	6	24.8	74
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	8,834	7	21.9	54	113,879	8	22.3	57
Alg 1, Alg 2, Geom, & Trig	10,275	8	20.0	36	116,105	8	20.4	38
Alg 1, Alg 2, Geom, & Other Adv Math	11,480	9	19.4	30	204,909	14	20.4	38
Other comb of 4 or more years of Math	25,890	21	22.6	57	342,493	24	23.9	66
Alg 1, Alg 2, & Geom (Min. Core)	21,938	18	17.4	11	251,813	18	17.8	14
Other comb of 3 or 3.5 years of Math	6,309	5	18.7	24	70,951	5	20.8	41
Less than 3 years of Math	24,473	20	16.1	5	131,252	9	17.4	14
No Math course/grade information reported	8,395	7	20.0	37	98,554	7	21.1	44
SOCIAL SCIENCE COURSE PATTERN								
	N	Percent Taking Pattern	Avg ACT Reading	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT Reading	Percent Meeting Benchmark
US Hist, World Hist, Am Gov, & Other Hist	2,194	2	22.1	56	42,546	3	22.7	61
Other comb of 4 or more years Social Science	49,337	40	20.3	45	604,055	42	21.9	56
US Hist, World Hist, & Am Gov (Min. Core)	4,702	4	19.7	40	86,500	6	20.8	48
Other comb of 3 or 3.5 years of Social Science	42,118	34	19.8	41	404,731	28	21.3	52
Less than 3 years of Social Science	17,426	14	17.8	28	185,561	13	20.4	45
No Soc Sci course/grade information reported	8,141	7	20.1	44	98,548	7	21.1	50
NATURAL SCIENCE COURSE PATTERN								
	N	Percent Taking Pattern	Avg ACT Science	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT Science	Percent Meeting Benchmark
Gen Sci ¹ , Bio, Chem, & Phys	35,101	28	21.3	33	453,654	32	22.2	38
Bio, Chem, Phys	7,723	6	23.7	51	134,033	9	23.2	47
Gen Sci ¹ , Bio, Chem (Min. Core)	33,745	27	19.9	19	435,183	31	20.1	20
Other comb of 3 years of Natural Science	4,572	4	19.2	18	40,179	3	20.1	22
Less than 3 years of Natural Science	34,500	28	17.7	8	259,142	18	18.7	13
No Nat Sci course/grade information reported	8,277	7	20.0	27	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	1,578	1	17.6	415	3	16.0	1,037	1	18.4
Architecture & Environmental Design	2,514	2	19.0	339	2	16.1	2,009	2	19.7
Business & Management	11,269	9	19.3	1,071	8	15.9	9,540	11	19.8
Business & Office	814	1	17.8	167	1	15.9	582	1	18.5
Marketing & Distribution	974	1	18.9	98	1	16.1	811	1	19.3
Communications & Comm. Technologies	3,472	3	19.9	355	3	16.5	2,914	3	20.5
Community & Personal Services	5,533	4	17.4	1,307	9	16.0	3,804	4	18.1
Computer & Information Sciences	2,949	2	20.1	389	3	17.2	2,369	3	20.6
Cross-Disciplinary Studies	93	0	23.0	4	0	15.5	80	0	23.7
Education	3,703	3	19.9	189	1	15.8	3,329	4	20.3
Teacher Education	3,366	3	19.6	184	1	15.2	3,002	3	20.0
Engineering	6,004	5	20.6	849	6	15.4	4,872	5	21.6
Engineering-Related Technologies	3,487	3	19.3	658	5	15.8	2,612	3	20.3
Foreign Languages	643	1	21.5	60	0	16.8	535	1	22.3
Health Sciences & Allied Health Fields	23,258	19	19.8	1,854	13	16.2	20,191	23	20.2
Human, Family & Consumer Science	2,453	2	17.2	570	4	15.8	1,654	2	17.8
Letters	862	1	23.3	52	0	19.7	758	1	23.6
Mathematics	446	0	22.5	19	0	15.6	393	0	23.2
Philosophy, Religion & Theology	542	0	21.7	33	0	18.5	462	1	22.2
Sciences (Biological & Physical)	4,141	3	22.8	119	1	16.5	3,827	4	23.1
Social Sciences	6,567	5	21.1	161	1	16.7	6,062	7	21.3
Trade & Industrial	3,182	3	16.9	1,653	12	16.3	1,263	1	17.9
Visual & Performing Arts	8,419	7	19.3	1,236	9	16.4	6,429	7	20.0
Undecided	10,857	9	20.1	1,323	10	16.1	8,129	9	21.1
No Response	16,792	14	19.0	797	6	14.2	2,493	3	20.1

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	3,728	15.9	445	13.7	38	15.9	2,558	16.4	165	14.7	18	15.8	504	15.6
2-yr College Degree	10,174	16.1	1,498	13.6	97	15.6	6,659	16.8	518	14.9	105	15.3	1,297	15.8
Bachelors Degree	42,590	19.3	5,070	15.5	370	17.8	30,646	20.1	1,266	17.6	649	19.3	4,589	18.6
Graduate Study	16,753	21.8	2,016	17.1	101	19.4	11,655	22.8	455	19.4	476	23.8	2,050	21.2
Prof. Level Degree	29,814	21.2	5,081	17.0	239	19.7	18,161	22.3	976	19.3	1,126	25.0	4,231	21.0
Other	4,501	16.9	685	14.7	60	16.5	2,698	17.5	161	15.5	77	18.2	820	16.8
No Response	16,358	19.1	2,157	14.8	163	16.6	9,832	19.8	524	16.8	249	22.5	3,433	19.9

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	29,959	10,949	19,010	3	11	23	30	23	10	1
CENTRAL MICHIGAN UNIVERSITY	Michigan	20,516	5,549	14,967	2	12	33	33	16	4	0
UNIVERSITY OF MICHIGAN-ANN ARBOR	Michigan	19,113	7,162	11,951	1	7	16	24	28	20	3
GRAND VALLEY STATE UNIVERSITY	Michigan	17,660	4,831	12,829	2	9	26	34	22	7	0
WESTERN MICHIGAN UNIVERSITY	Michigan	15,743	3,238	12,505	2	11	31	34	17	5	0
STATE-COLLEGE/NO REPORTS NOW	Iowa	13,808	13,806	2	9	26	30	19	9	5	1
FERRIS STATE UNIVERSITY	Michigan	11,394	3,267	8,127	3	17	37	29	12	3	0
EASTERN MICHIGAN UNIVERSITY	Michigan	11,139	2,827	8,312	4	20	35	26	12	3	0
WAYNE STATE UNIVERSITY	Michigan	10,624	2,800	7,824	6	24	33	22	11	4	0
OAKLAND UNIVERSITY	Michigan	8,312	2,121	6,191	3	14	33	30	16	5	0
SAGINAW VALLEY STATE UNIVERSITY	Michigan	6,142	1,467	4,675	2	15	37	29	13	3	0
GRAND RAPIDS COMMUNITY COLLEGE	Michigan	4,724	1,809	2,915	5	22	39	24	8	2	0
MICHIGAN TECHNOLOGICAL UNIVERSITY	Michigan	4,570	1,320	3,250	3	12	22	26	21	13	2
NORTHERN MICHIGAN UNIVERSITY	Michigan	4,400	1,410	2,990	2	12	32	32	17	5	0
UNIVERSITY OF MICHIGAN-DEARBORN	Michigan	3,780	870	2,910	2	14	29	29	19	7	0
OAKLAND COMMUNITY COLLEGE	Michigan	3,281	983	2,298	6	28	38	20	7	1	0
MACOMB COMMUNITY COLLEGE	Michigan	3,053	1,241	1,812	7	28	39	20	5	1	0
LANSING COMMUNITY COLLEGE	Michigan	2,781	1,058	1,723	5	24	40	23	6	2	0
MICHIGAN HIGHER EDUC ASST AUTHORITY	Michigan	2,708	1,273	1,435	4	15	26	28	17	8	1
HENRY FORD COMMUNITY COLLEGE	Michigan	2,623	881	1,742	11	34	35	15	4	1	0
UNIVERSITY OF MICHIGAN-FLINT	Michigan	2,491	553	1,938	4	17	32	29	15	4	0
UNIVERSITY OF DETROIT MERCY	Michigan	2,326	440	1,886	6	24	31	23	12	4	0
LAKE SUPERIOR STATE UNIVERSITY	Michigan	2,267	612	1,655	2	13	35	31	14	4	0
HOPE COLLEGE	Michigan	2,255	542	1,713	1	5	17	29	29	17	2
SCHOOLCRAFT COLLEGE	Michigan	2,241	750	1,491	6	27	39	21	6	1	0
DELTA COLLEGE	Michigan	2,234	1,025	1,209	4	21	40	24	9	1	0
NCAA ELIGIBILITY CENTER	Indiana	2,155	895	1,260	3	16	29	29	17	5	0
STATE-NO COLLEGE PLANS	Iowa	2,132	2,132	0	22	42	27	7	2	0	0
KALAMAZOO VALLEY COMMUNITY COLLEGE	Michigan	2,064	762	1,302	6	26	39	21	6	1	0
DAVENPORT UNIVERSITY	Michigan	1,996	459	1,537	6	24	35	23	9	2	0
All Other Institutions		119,620	30,614	89,006	5	20	28	22	14	8	1
Total		338,111	107,646	230,465	4	17	29	26	16	7	1

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	State	National
All Students	115,461	770,529	18.4	21.4	6.6	7.3	18.1	20.9
African Am./Black	16,009	86,049	14.5	16.6	5.9	6.5	14.5	16.6
Am. Indian/Alaska Native	1,021	5,148	16.5	18.9	6.0	6.7	16.1	18.5
Caucasian Am./White	76,131	464,177	19.4	22.5	6.8	7.4	18.9	21.8
Hispanic	3,885	71,060	16.0	18.3	6.3	7.1	16.0	18.5
Asian Am./Pacific Islander	2,517	37,359	21.8	23.1	7.4	7.9	21.4	22.6
Other/No Response	15,898	106,736	18.3	22.2	6.6	7.5	18.0	21.7
Males	55,744	327,613	18.0	20.9	6.2	7.0	17.4	20.2
Females	58,359	421,968	18.8	21.7	7.0	7.6	18.7	21.3
Missing	1,358	20,948	22.7	23.9	7.6	7.9	22.2	23.2

