

# ACT Profile Report - State

Graduating Class 2010  
Michigan





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This report provides information about the performance of your 2010 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 2010 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.

Furthermore, 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. *Connecting College Readiness Standards to the Classroom* interpretive guides can be found at [www.act.org/standard/infoserv.html](http://www.act.org/standard/infoserv.html).

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

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

For more information, go to [www.act.org](http://www.act.org)

## How to Improve Scores and Increase College Readiness

19% of 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:** 120,930 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. 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 14% of the cohort took less than three years of math courses. Of these students, 4% were college ready. 20% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 11% of these students were college ready. In comparison, 49% of the students who took 3 or more years of math beyond Algebra I, Algebra II, and Geometry were college ready. Getting more students ready for Algebra prior to 9th grade will increase the chances that students will be prepared for and take advanced-level math courses.

Similarly, Table 3.2 reports 21% of the cohort took less than three years of natural science courses. 10% of these students were college ready. In comparison, 30% 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 59% of the cohort fall into the lowest three Mathematics score ranges. To increase these students' achievement, identify the standards they should focus on next by accessing ACT's College Readiness Standards at [www.act.org/standard](http://www.act.org/standard).

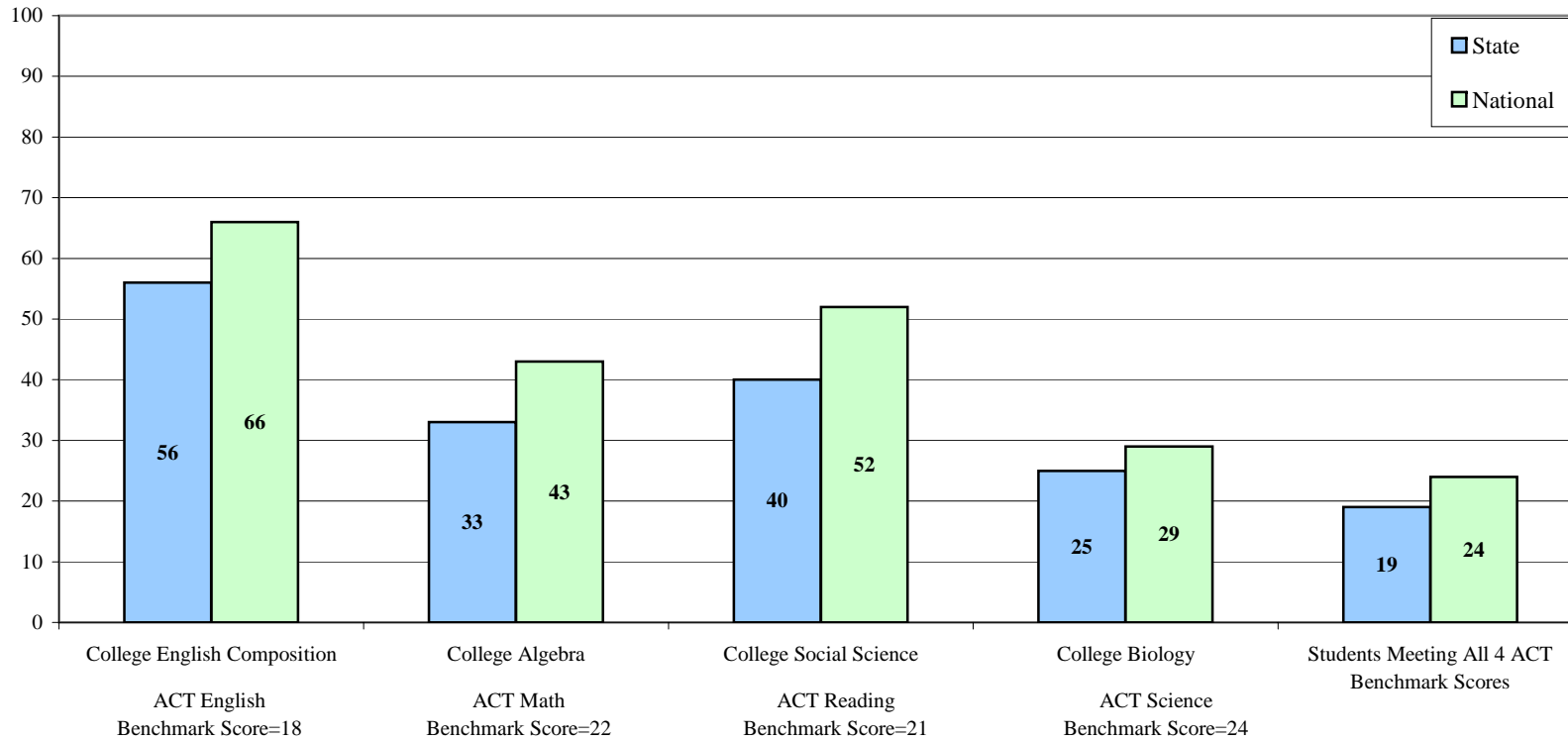
**PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS:** Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether among students with similar aspirations, academic performance is consistent across racial/ethnic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

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

# Section I

## Executive Summary

**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: 120,930

**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
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
<b>2010</b>	<b>120,930</b>	<b>1,568,835</b>	<b>56</b>	<b>66</b>	<b>33</b>	<b>43</b>	<b>40</b>	<b>52</b>	<b>25</b>	<b>29</b>	<b>19</b>	<b>24</b>

**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
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
<b>2010</b>	<b>120,930</b>	<b>1,568,835</b>	<b>18.9</b>	<b>20.5</b>	<b>19.7</b>	<b>21.0</b>	<b>19.7</b>	<b>21.3</b>	<b>19.9</b>	<b>20.9</b>	<b>19.7</b>	<b>21.0</b>

**Table 1.3. Five Year Trends—Average ACT Scores Nationwide**

Year	Number of Students Tested	Average ACT Scores				
		English	Mathematics	Reading	Science	Composite
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
<b>2010</b>	<b>1,568,835</b>	<b>20.5</b>	<b>21.0</b>	<b>21.3</b>	<b>20.9</b>	<b>21.0</b>

Total Students in Report: 120,930

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

Year	Number of Students Tested		Percent <sup>2</sup>		Average ACT Scores									
					English		Mathematics		Reading		Science		Composite	
	Core or More <sup>1</sup>	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
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
<b>2010</b>	<b>70,256</b>	<b>44,258</b>	<b>58</b>	<b>37</b>	<b>20.6</b>	<b>16.7</b>	<b>21.2</b>	<b>17.9</b>	<b>21.2</b>	<b>17.9</b>	<b>21.4</b>	<b>18.1</b>	<b>21.2</b>	<b>17.8</b>

<sup>1</sup>"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.

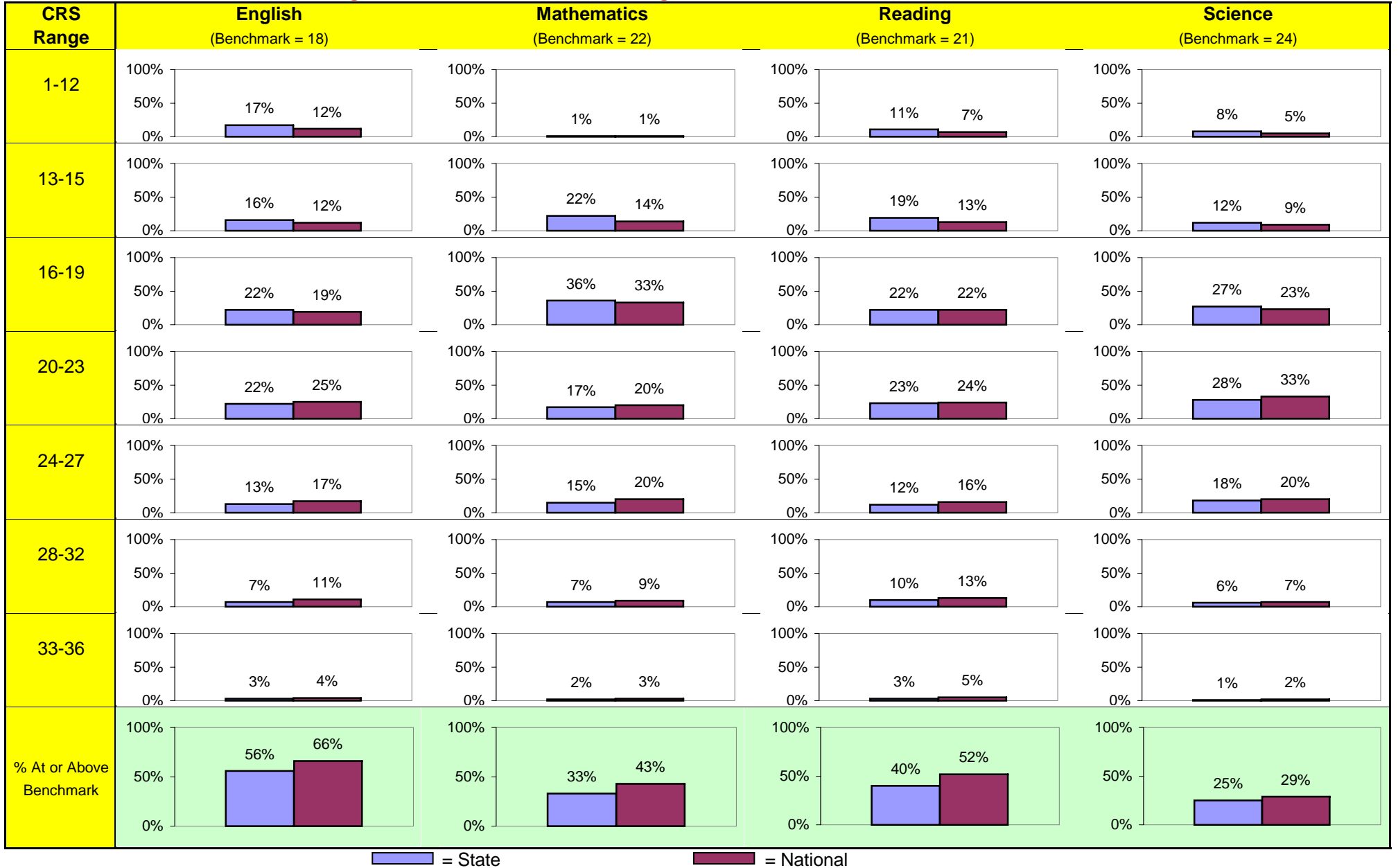
<sup>2</sup>Percent of all students tested. Numbers will not add up to 100% due to student non-response.

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

	2006			2007			2008			2009			2010		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
<b>All Students</b>	<b>72,751</b>	<b>100</b>	<b>21.5</b>	<b>78,135</b>	<b>100</b>	<b>21.5</b>	<b>123,918</b>	<b>100</b>	<b>19.6</b>	<b>121,982</b>	<b>100</b>	<b>19.6</b>	<b>120,930</b>	<b>100</b>	<b>19.7</b>
African American/Black	7,985	11	17.1	9,285	12	16.9	16,952	14	15.8	17,430	14	15.6	17,793	15	15.8
American Indian/Alaska Native	456	1	20.1	500	1	20.4	1,068	1	17.8	1,033	1	17.8	1,024	1	17.8
Caucasian American/White	51,954	71	22.1	52,309	67	22.2	82,209	66	20.4	81,436	67	20.6	80,204	66	20.7
Hispanic	1,714	2	19.9	1,901	2	19.8	4,065	3	17.6	4,203	3	17.5	4,384	4	17.7
Asian American/Pacific Islander	2,019	3	23.1	1,935	2	23.5	2,700	2	22.5	2,690	2	22.8	2,847	2	23.1
Other/No Response	8,623	12	21.5	12,205	16	21.9	16,924	14	19.4	15,190	12	18.8	14,678	12	18.8

Total Students in Report: 120,930

**Table 1.6. Percent of Students in College Readiness Standards Score Ranges**





# Section II

# Academic Achievement

Total Students in Report: 120,930

**Table 2.1. ACT Score Distributions, Cumulative Percentages (CP<sup>1</sup>), and Score Averages**

ACT Score	English		Mathematics		Reading		Science		Composite		ACT Score
	N	CP	N	CP	N	CP	N	CP	N	CP	
36	183	100	246	100	422	100	213	100	35	100	36
35	888	100	629	100	768	100	482	100	231	100	35
34	1,395	99	988	99	1,371	99	627	99	444	100	34
33	1,107	98	680	98	1,357	98	409	99	764	99	33
32	1,008	97	1,115	98	1,867	97	704	99	968	99	32
31	1,371	96	858	97	2,247	95	1,266	98	1,438	98	31
30	1,528	95	1,788	96	2,494	93	1,584	97	1,822	97	30
29	2,300	94	1,916	95	2,693	91	906	96	2,162	95	29
28	2,266	92	3,256	93	2,859	89	2,218	95	2,840	93	28
27	2,963	90	3,457	91	3,125	87	4,342	93	3,405	91	27
26	3,755	88	4,012	88	3,423	84	3,279	89	4,126	88	26
25	3,914	84	4,617	84	3,930	81	6,575	87	4,871	85	25
24	5,342	81	5,722	81	4,100	78	7,469	81	5,570	81	24
23	5,788	77	5,484	76	7,387	75	5,997	75	6,144	76	23
22	5,091	72	5,592	71	5,238	69	8,018	70	6,601	71	22
21	8,373	68	5,506	67	5,446	64	9,634	64	7,541	66	21
20	7,344	61	4,201	62	9,376	60	10,332	56	7,821	60	20
19	7,270	55	6,687	59	5,495	52	9,889	47	8,146	53	19
18	5,303	49	10,384	53	5,633	47	6,711	39	8,684	46	18
17	5,487	44	9,050	44	9,606	43	9,893	33	8,931	39	17
16	8,135	40	17,105	37	5,648	35	5,875	25	8,611	32	16
15	6,163	33	15,626	23	9,323	30	5,256	20	8,624	25	15
14	7,853	28	7,932	10	5,681	22	4,807	16	7,954	17	14
13	5,168	22	2,717	3	8,204	18	4,306	12	6,586	11	13
12	5,229	17	733	1	6,367	11	3,399	8	4,307	5	12
11	4,713	13	440	1	4,112	6	4,350	6	1,725	2	11
10	3,921	9	96	1	1,215	2	1,263	2	385	1	10
9	3,146	6	19	1	760	1	614	1	114	1	9
8	2,446	3	25	1	412	1	322	1	39	1	8
7	1,012	1	7	1	71	1	96	1	19	1	7
6	277	1	18	1	172	1	47	1	14	1	6
5	111	1	0	1	68	1	9	1	5	1	5
4	53	1	15	1	38	1	18	1	2	1	4
3	20	1	1	1	5	1	10	1	0	1	3
2	2	1	0	1	10	1	2	1	1	1	2
1	5	1	8	1	7	1	8	1	0	1	1
<b>Avg (SD)</b>	18.9 (6.4)		19.7 (5.2)		19.7 (6.2)		19.9 (5.2)		19.7 (5.2)		<b>Avg (SD)</b>

<sup>1</sup>CP 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: 120,930

**Table 2.2. ACT Subscore Distributions, Cumulative Percentages (CP<sup>1</sup>), 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	2,643	100	779	100	2,134	100	1,590	100	3,594	100	789	100	607	100	18
17	3,476	98	1,068	99	3,670	98	7,227	99	3,407	97	1,677	99	908	99	17
16	3,271	95	4,462	98	4,766	95	5,016	93	5,836	94	2,361	98	2,039	99	16
15	4,793	92	4,835	95	4,983	91	7,279	89	5,245	89	2,690	96	5,554	97	15
14	5,479	88	6,727	91	5,315	87	2,359	83	5,767	85	8,047	94	8,176	92	14
13	6,298	84	7,896	85	8,441	83	8,353	81	6,278	80	7,378	87	8,173	86	13
12	5,102	79	11,702	79	7,742	76	9,021	74	7,677	75	9,261	81	8,500	79	12
11	10,775	74	13,238	69	8,661	69	10,722	66	12,369	69	18,766	73	14,905	72	11
10	10,737	65	13,362	58	15,070	62	9,897	57	8,601	59	14,488	58	12,741	60	10
9	13,547	57	11,903	47	11,748	50	9,448	49	9,109	51	16,607	46	23,004	49	9
8	10,411	45	11,561	37	18,247	40	16,051	41	15,756	44	13,916	32	13,807	30	8
7	10,960	37	10,918	28	10,468	25	8,261	28	21,590	31	10,835	21	9,892	19	7
6	10,042	28	8,889	19	8,142	16	8,608	21	10,318	13	6,636	12	1,773	10	6
5	9,222	19	7,170	11	5,684	10	7,021	14	3,398	4	1,300	6	6,375	9	5
4	7,022	12	4,335	5	3,381	5	7,101	8	1,382	2	3,782	5	908	4	4
3	5,538	6	1,614	2	1,647	2	1,846	2	120	1	1,812	2	2,554	3	3
2	1,453	1	416	1	601	1	1,081	1	414	1	128	1	424	1	2
1	161	1	55	1	230	1	49	1	69	1	457	1	590	1	1
Avg (SD)	9.2 (3.9)		9.8 (3.4)		9.9 (3.5)		9.9 (3.9)		10.1 (3.6)		9.9 (3.0)		9.9 (3.1)		Avg (SD)

<sup>1</sup>CP 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	24	23	23
Q2 (50th Percentile)	19	18	19	20	19
Q1 (25th Percentile)	14	16	15	16	16

Total Students in Report: 120,930

**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 <sup>1</sup>	Average ACT Composite Score	
				Core or More	Less Than Core
State	<b>All Students</b>	<b>120,930</b>	<b>58</b>	<b>21.2</b>	<b>17.8</b>
	African American/Black	17,793	57	16.6	14.9
	American Indian/Alaska Native	1,024	44	19.5	16.7
	Caucasian American/White	80,204	59	22.3	18.5
	Hispanic	4,384	51	19.2	16.3
	Asian American/Pacific Islander	2,847	74	24.5	19.6
	Other/No Response	14,678	52	20.4	17.3
National	<b>All Students</b>	<b>1,568,835</b>	<b>71</b>	<b>22.0</b>	<b>18.9</b>
	African American/Black	214,836	65	17.5	15.8
	American Indian/Alaska Native	16,382	60	20.2	17.4
	Caucasian American/White	979,329	74	23.1	20.0
	Hispanic	157,579	68	19.4	17.0
	Asian American/Pacific Islander	65,362	81	23.9	21.5
	Other/No Response	135,347	65	21.8	18.7

<sup>1</sup>"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	<b>All Students</b>	<b>18.9</b>	<b>19.7</b>	<b>19.7</b>	<b>19.9</b>	<b>19.7</b>
	African American/Black	14.5	16.1	15.6	16.4	15.8
	American Indian/Alaska Native	16.6	18.0	17.9	18.3	17.8
	Caucasian American/White	20.1	20.6	20.8	20.9	20.7
	Hispanic	16.4	18.1	17.8	18.1	17.7
	Asian American/Pacific Islander	22.3	24.3	22.3	23.0	23.1
	Other/No Response	17.8	19.0	18.8	19.0	18.8
National	<b>All Students</b>	<b>20.5</b>	<b>21.0</b>	<b>21.3</b>	<b>20.9</b>	<b>21.0</b>
	African American/Black	15.7	17.1	16.8	17.2	16.9
	American Indian/Alaska Native	17.9	18.8	19.4	19.3	19.0
	Caucasian American/White	22.0	22.0	22.6	22.0	22.3
	Hispanic	17.3	19.0	18.7	18.7	18.6
	Asian American/Pacific Islander	22.6	24.7	22.9	23.0	23.4
	Other/No Response	20.0	20.7	20.9	20.4	20.6



Total Students in Report: 120,930

**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	3,573	3	2,543	2	3,918	3	1,731	1
	28 to 32	8,473	7	8,933	7	12,160	10	6,678	6
	24 to 27	15,974	13	17,808	15	14,578	12	21,665	18
	20 to 23	26,596	22	20,783	17	27,447	23	33,981	28
	16 to 19	26,195	22	43,226	36	26,382	22	32,368	27
	13 to 15	19,184	16	26,275	22	23,208	19	14,369	12
	01 to 12	20,935	17	1,362	1	13,237	11	10,138	8
National	33 to 36	66,467	4	46,930	3	76,605	5	30,627	2
	28 to 32	165,254	11	142,908	9	211,021	13	111,377	7
	24 to 27	268,486	17	319,044	20	248,190	16	317,878	20
	20 to 23	386,648	25	318,678	20	383,226	24	513,801	33
	16 to 19	302,869	19	518,636	33	340,348	22	368,286	23
	13 to 15	191,597	12	213,176	14	201,824	13	148,317	9
	01 to 12	187,514	12	9,463	1	107,621	7	78,549	5

**Table 2.7. Average ACT Scores by Gender**

Student Group	Gender	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Males	59,352	49	18.3	20.1	19.2	20.2	19.6
	Females	61,438	51	19.5	19.4	20.2	19.7	19.8
	Missing	140	0	14.7	16.6	16.2	16.8	16.2
National	Males	713,544	45	20.1	21.6	21.1	21.4	21.2
	Females	852,493	54	20.8	20.5	21.4	20.5	20.9
	Missing	2,798	0	16.2	17.9	17.7	17.9	17.5

**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	51	36	37	28	20
	Females	60	31	43	22	17
National	Males	64	48	51	34	28
	Females	69	40	53	25	21

Total Students in Report: 120,930

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

Student Group	Curriculum Taken <sup>1</sup>	N	English		Mathematics		Reading		Science		Composite	
			CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB % <sup>4</sup>	Avg
State	Core or More <sup>2</sup>	70,256	68	20.6	45	21.2	50	21.2	34	21.4	27	21.2
	Less than Core	44,258	41	16.7	18	17.9	27	17.9	13	18.1	8	17.8
	Missing <sup>3</sup>	6,416	26	14.6	11	16.6	18	16.1	8	16.5	5	16.1
National	Core or More	1,118,639	74	21.6	51	21.9	58	22.2	35	21.7	29	22.0
	Less than Core	397,685	50	18.1	26	18.9	37	19.2	17	19.0	13	18.9
	Missing	52,511	33	15.5	16	17.4	24	17.1	10	17.3	7	16.9

<sup>1</sup> "Curriculum Taken" reflects overall high school curriculum in this table.

<sup>2</sup> "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.

<sup>3</sup> Zero years or no coursework information reported in one or more content areas.

<sup>4</sup> Composite 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 <sup>1</sup>	English			Mathematics			Reading			Science		
		N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg
State	Core or More <sup>2</sup>	98,304	61	19.6	98,484	40	20.5	102,725	43	20.2	90,037	30	20.8
	Less than Core	17,910	35	15.8	16,959	4	16.1	13,041	24	17.2	25,549	10	17.7
	Missing <sup>3</sup>	4,716	28	14.8	5,487	11	16.6	5,164	19	16.4	5,344	9	16.6
National	Core or More	1,451,549	69	20.8	1,423,506	47	21.4	1,366,601	54	21.6	1,290,372	33	21.5
	Less than Core	74,180	39	16.4	97,949	7	16.4	156,679	39	19.5	231,566	12	18.3
	Missing	43,106	34	15.7	47,380	16	17.5	45,555	25	17.3	46,897	10	17.4

<sup>1</sup> "Curriculum Taken" reflects content-specific curriculum in this table.

<sup>2</sup> "Core or More" results correspond to students taking four or more years of English or three or more years of math, social studies, or natural science, respectively.

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.

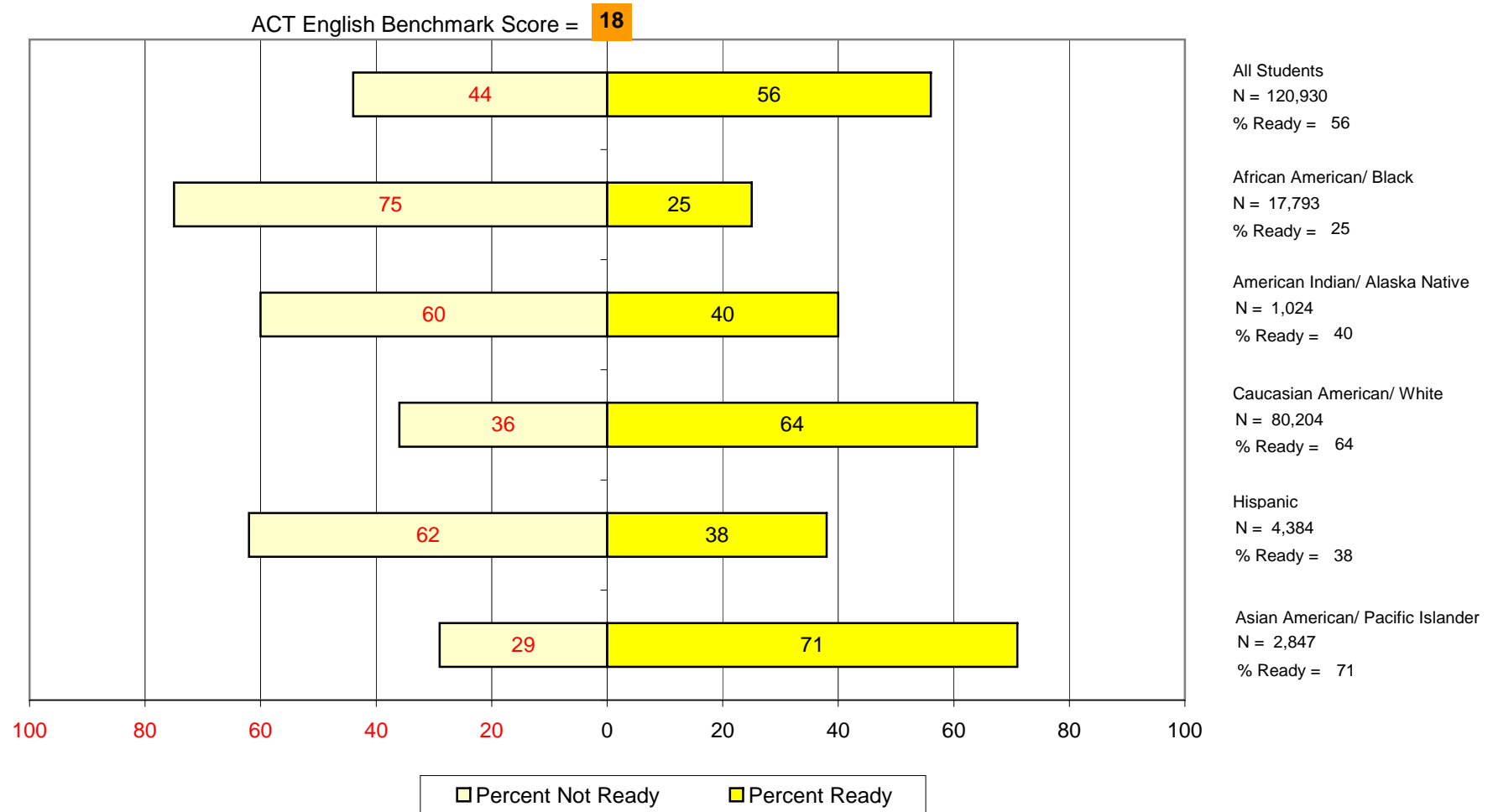
<sup>3</sup> Zero years or no coursework information reported in the specified content area.

# Section III

## College Readiness and the Impact of Course Rigor

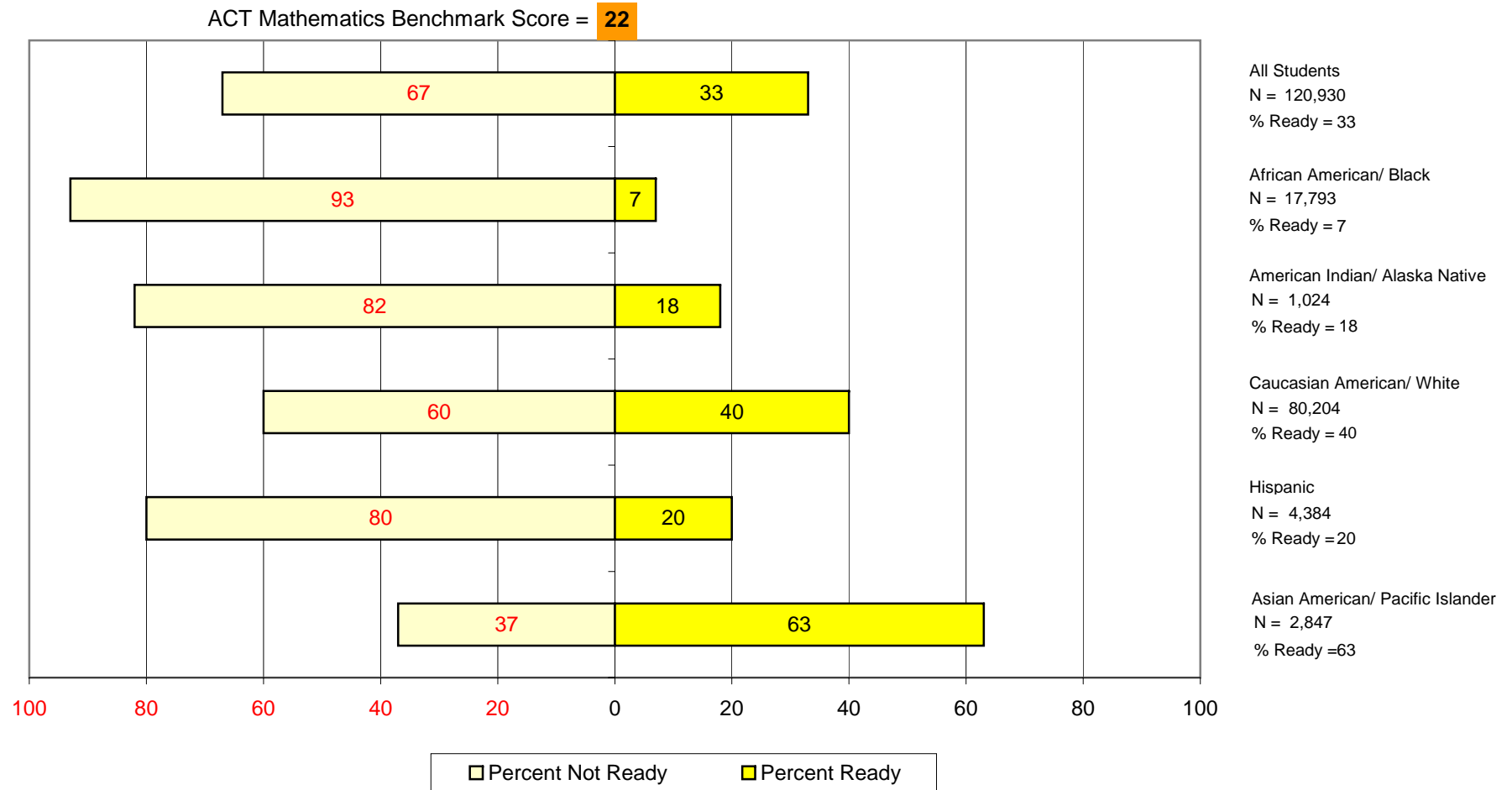
Total Students in Report: 120,930

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



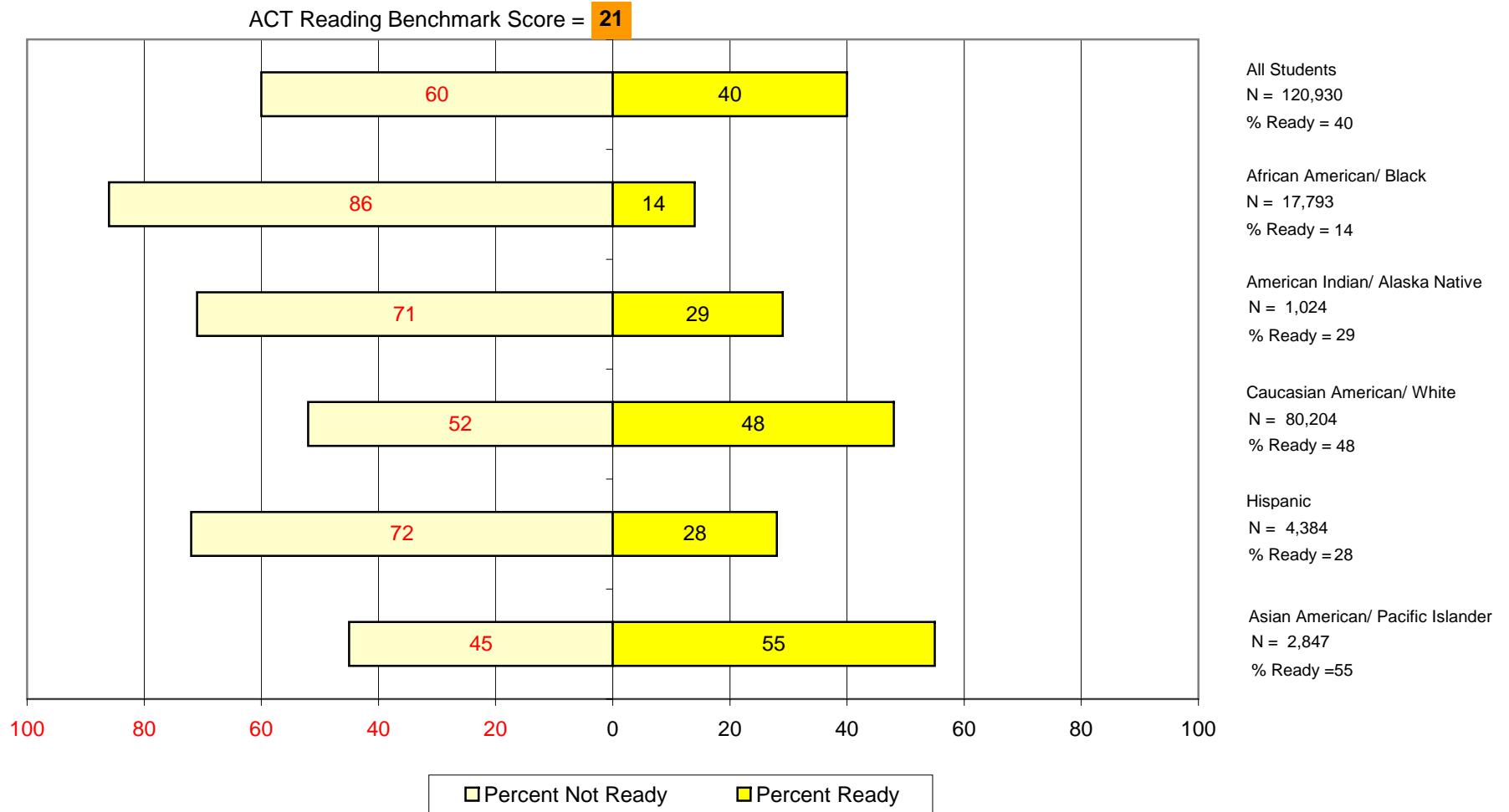
Total Students in Report: 120,930

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



Total Students in Report: 120,930

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



All Students  
 N = 120,930  
 % Ready = 40

African American/ Black  
 N = 17,793  
 % Ready = 14

American Indian/ Alaska Native  
 N = 1,024  
 % Ready = 29

Caucasian American/ White  
 N = 80,204  
 % Ready = 48

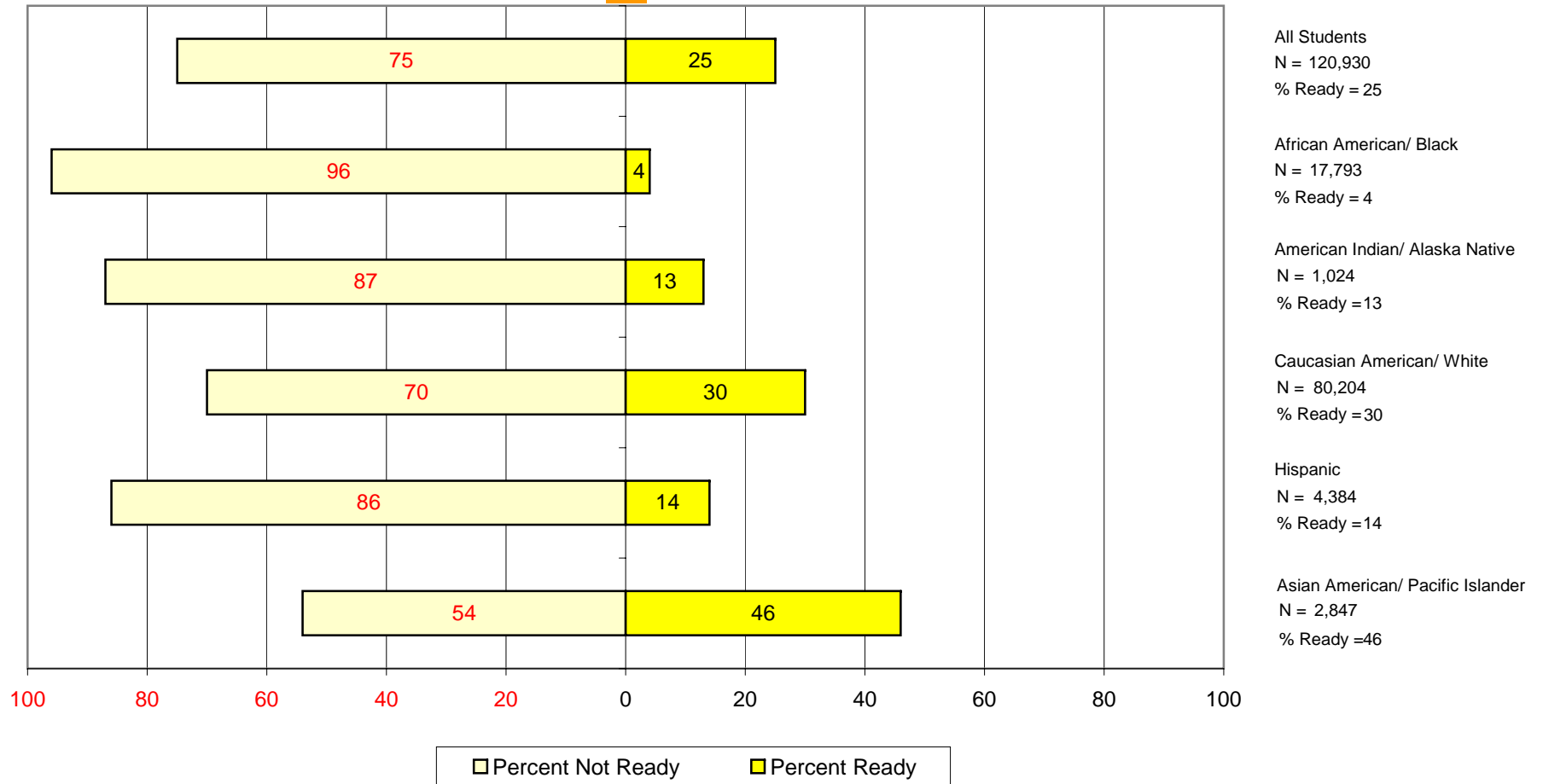
Hispanic  
 N = 4,384  
 % Ready = 28

Asian American/ Pacific Islander  
 N = 2,847  
 % Ready = 55

Total Students in Report: 120,930

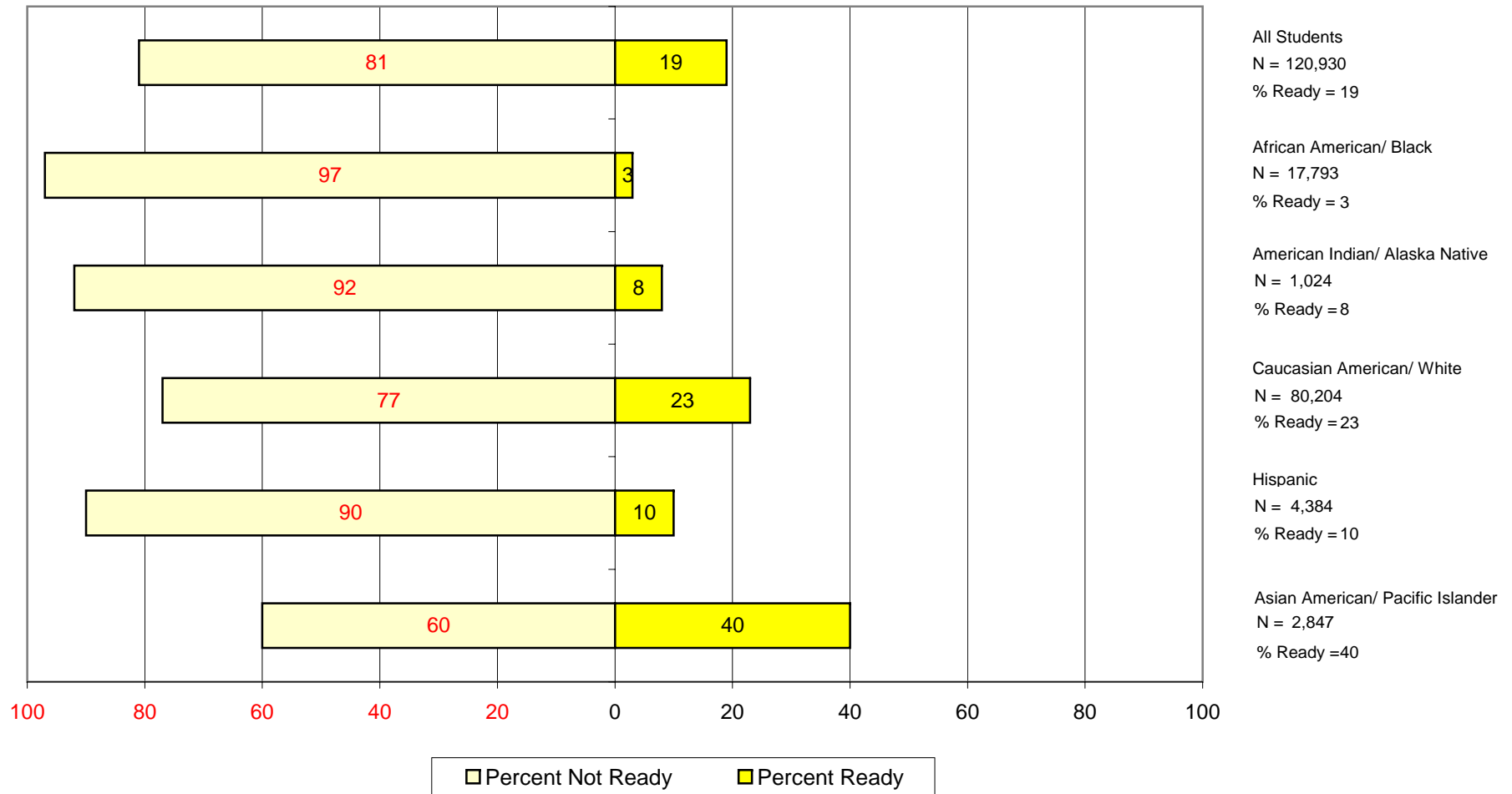
**Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE**

ACT Science Benchmark Score = **24**



Total Students in Report: 120,930

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





Total Students in Report: 120,930

**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 <sup>1</sup>	N	Percent	ACT English	Course Value Added <sup>1</sup>	N	Percent	ACT English	Course Value Added <sup>1</sup>
<b>ENGLISH COURSE PATTERN</b>												
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	30,363	25	21.2	5.4	12,751	21	20.6	5.3	17,594	29	21.6	5.2
Eng 9, Eng 10, Eng 11, Eng 12	67,941	56	18.9	3.1	34,250	58	18.6	3.3	33,625	55	19.3	2.9
Less than 4 years of English	17,910	15	15.8	-	9,747	16	15.3	-	8,131	13	16.4	-
Zero years / no English courses reported	4,716	4	14.8	-	2,604	4	14.3	-	2,088	3	15.5	-
<b>MATHEMATICS COURSE PATTERN</b>												
Alg 1, Alg 2, Geom, Trig, & Calc	6,092	5	23.3	7.2	2,971	5	24.2	7.9	3,120	5	22.5	6.6
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	9,090	8	22.1	6.0	3,793	6	22.6	6.3	5,291	9	21.8	5.9
Alg 1, Alg 2, Geom, & Trig	9,397	8	19.9	3.8	4,365	7	20.3	4.0	5,027	8	19.5	3.6
Alg 1, Alg 2, Geom, & Other Adv Math	13,343	11	19.8	3.7	5,640	10	20.2	3.9	7,692	13	19.4	3.5
Other comb of 4 or more years of Math	29,895	25	23.1	7.0	15,573	26	23.7	7.4	14,308	23	22.4	6.5
Alg 1, Alg 2, & Geom	24,120	20	17.3	1.2	11,725	20	17.6	1.3	12,358	20	17.0	1.1
Other comb of 3 or 3.5 years of Math	6,547	5	18.3	2.2	3,347	6	18.8	2.5	3,195	5	17.8	1.9
Less than 3 years of Math	16,959	14	16.1	-	8,891	15	16.3	-	8,035	13	15.9	-
Zero years / no Math courses reported	5,487	5	16.6	-	3,047	5	16.8	-	2,412	4	16.4	-
<b>SOCIAL SCIENCE COURSE PATTERN</b>												
US Hist, World Hist, Am Gov, & Other Hist	1,885	2	22.0	4.8	1,060	2	21.4	4.6	824	1	22.8	5.0
Other comb of 4 or more years Social Science	55,794	46	20.5	3.3	25,749	43	20.1	3.3	29,992	49	20.9	3.1
US Hist, World Hist, & Am Gov	4,196	3	18.8	1.6	2,413	4	18.3	1.5	1,777	3	19.4	1.6
Other comb of 3 or 3.5 years of Social Science	40,850	34	19.8	2.6	19,983	34	19.3	2.5	20,839	34	20.2	2.4
Less than 3 years of Social Science	13,041	11	17.2	-	7,268	12	16.8	-	5,748	9	17.8	-
Zero years / no Social Science courses reported	5,164	4	16.4	-	2,879	5	15.9	-	2,258	4	17.0	-
<b>NATURAL SCIENCE COURSE PATTERN</b>												
Gen Sci <sup>2</sup> , Bio, Chem, & Phys	40,459	33	21.3	3.6	20,944	35	21.8	4.2	19,484	32	20.7	2.9
Bio, Chem, Phys	9,351	8	23.5	5.8	4,933	8	24.2	6.6	4,415	7	22.7	4.9
Gen Sci <sup>2</sup> , Bio, Chem	35,433	29	19.7	2.0	15,004	25	19.7	2.1	20,398	33	19.7	1.9
Other comb of 3 years of Natural Science	4,794	4	18.8	1.1	2,695	5	19.2	1.6	2,092	3	18.3	0.5
Less than 3 years of Natural Science	25,549	21	17.7	-	12,814	22	17.6	-	12,694	21	17.8	-
Zero years / no Natural Science courses reported	5,344	4	16.6	-	2,962	5	16.6	-	2,355	4	16.7	-

<sup>1</sup>Course value added is defined as the average ACT score change compared to course sequences in which students took less than four years and three years of English and non-English content areas, respectively.

<sup>2</sup>Includes General, Physical and Earth Sciences.

Total Students in Report: 120,930

**Table 3.2. College Readiness Percents by Common Course Patterns**

Course Pattern	State				National			
	N	Percent Taking Pattern	Avg ACT English	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT English	Percent Meeting Benchmark
<b>ENGLISH COURSE PATTERN</b>								
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	30,363	25	21.2	71	355,112	23	21.9	75
Eng 9, Eng 10, Eng 11, Eng 12	67,941	56	18.9	56	1,096,437	70	20.5	66
Less than 4 years of English	17,910	15	15.8	35	74,180	5	16.4	39
Zero years / no English courses reported	4,716	4	14.8	28	43,106	3	15.7	34
<b>MATHEMATICS COURSE PATTERN</b>								
Alg 1, Alg 2, Geom, Trig, & Calc	6,092	5	23.3	64	98,076	6	24.4	72
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	9,090	8	22.1	57	141,740	9	22.1	58
Alg 1, Alg 2, Geom, & Trig	9,397	8	19.9	35	112,685	7	19.9	35
Alg 1, Alg 2, Geom, & Other Adv Math	13,343	11	19.8	34	239,289	15	20.0	36
Other comb of 4 or more years of Math	29,895	25	23.1	60	498,709	32	23.9	67
Alg 1, Alg 2, & Geom	24,120	20	17.3	11	258,287	16	17.4	12
Other comb of 3 or 3.5 years of Math	6,547	5	18.3	21	74,720	5	19.9	35
Less than 3 years of Math	16,959	14	16.1	4	97,949	6	16.4	7
Zero years / no Math courses reported	5,487	5	16.6	11	47,380	3	17.5	16
<b>SOCIAL SCIENCE COURSE PATTERN</b>								
US Hist, World Hist, Am Gov, & Other Hist	1,885	2	22.0	55	47,523	3	22.6	60
Other comb of 4 or more years Social Science	55,794	46	20.5	46	793,514	51	21.9	57
US Hist, World Hist, & Am Gov	4,196	3	18.8	34	86,044	5	20.4	45
Other comb of 3 or 3.5 years of Social Science	40,850	34	19.8	40	439,520	28	21.2	51
Less than 3 years of Social Science	13,041	11	17.2	24	156,679	10	19.5	39
Zero years / no Social Science courses reported	5,164	4	16.4	19	45,555	3	17.3	25
<b>NATURAL SCIENCE COURSE PATTERN</b>								
Gen Sci <sup>1</sup> , Bio, Chem, & Phys	40,459	33	21.3	35	620,765	40	22.2	40
Bio, Chem, Phys	9,351	8	23.5	51	152,001	10	23.2	48
Gen Sci <sup>1</sup> , Bio, Chem	35,433	29	19.7	20	474,375	30	20.1	21
Other comb of 3 years of Natural Science	4,794	4	18.8	17	43,231	3	19.7	21
Less than 3 years of Natural Science	25,549	21	17.7	10	231,566	15	18.3	12
Zero years / no Natural Science courses reported	5,344	4	16.6	9	46,897	3	17.4	10

<sup>1</sup>Includes General, Physical and Earth Sciences.

# Section IV

## Career and Educational Aspirations

Total Students in Report: 120,930

**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 <sup>1</sup>	Percent <sup>2</sup>	Avg ACT Comp	N	Percent <sup>2</sup>	Avg ACT Comp	N	Percent <sup>2</sup>	Avg ACT Comp
Agriculture Sciences & Technologies	1,716	1	17.4	466	3	15.5	1,129	1	18.3
Architecture & Environmental Design	2,122	2	19.5	267	2	15.5	1,756	2	20.2
Business & Management	9,671	8	19.7	866	6	15.7	8,416	9	20.3
Business & Office	654	1	18.1	116	1	16.0	498	1	18.8
Marketing & Distribution	791	1	18.6	84	1	14.9	667	1	19.3
Communications & Comm. Technologies	3,280	3	20.1	369	3	16.2	2,745	3	20.8
Community & Personal Services	6,011	5	17.5	1,350	10	16.2	4,221	5	18.1
Computer & Information Sciences	2,882	2	20.3	381	3	17.2	2,365	3	20.9
Cross-Disciplinary Studies	105	0	23.0	6	0	17.0	91	0	23.7
Education	3,457	3	20.3	199	1	16.0	3,094	3	20.7
Teacher Education	3,129	3	20.2	164	1	15.5	2,835	3	20.6
Engineering	6,110	5	21.2	829	6	15.2	5,018	5	22.4
Engineering-Related Technologies	3,284	3	19.7	651	5	15.8	2,449	3	20.9
Foreign Languages	603	0	22.1	47	0	16.7	509	1	22.8
Health Sciences & Allied Health Fields	26,989	22	20.2	1,932	14	16.1	24,059	26	20.6
Human, Family & Consumer Science	2,657	2	17.5	606	4	16.1	1,829	2	18.1
Letters	1,022	1	23.6	74	1	17.7	899	1	24.2
Mathematics	485	0	23.3	28	0	16.5	441	0	23.9
Philosophy, Religion & Theology	540	0	21.5	37	0	16.7	456	0	22.1
Sciences (Biological & Physical)	4,604	4	22.9	145	1	17.2	4,294	5	23.2
Social Sciences	7,690	6	21.4	219	2	16.2	7,171	8	21.7
Trade & Industrial	2,855	2	16.9	1,496	11	16.3	1,122	1	17.9
Visual & Performing Arts	8,683	7	19.5	1,427	10	16.4	6,575	7	20.3
Undecided	9,281	8	20.3	1,240	9	15.8	7,046	8	21.3
No Response	12,309	10	16.6	985	7	14.2	1,657	2	16.5

<sup>1</sup>2-Year and 4-Year "N" counts do not reflect "Missing" and "Other" college plans, therefore they may not add up to the N count for All Students.

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

**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	3,743	15.7	538	13.4	57	15.1	2,442	16.4	187	14.9	31	16.1	488	15.2
2-yr College Degree	10,241	16.0	1,691	13.7	115	15.7	6,540	16.8	553	14.7	89	15.7	1,253	15.6
Bachelors Degree	42,193	19.4	5,351	15.4	344	18.2	30,317	20.4	1,361	17.6	683	20.1	4,137	18.5
Graduate Study	17,043	22.0	2,157	17.0	97	19.9	11,926	23.1	510	20.2	476	23.9	1,877	20.8
Prof. Level Degree	32,106	21.6	5,257	17.3	226	19.7	19,927	22.8	1,088	19.9	1,333	25.6	4,275	20.8
Other	4,269	16.9	634	14.4	53	16.0	2,598	17.7	153	15.3	62	18.5	769	16.7
No Response	11,335	17.4	2,165	14.4	132	16.1	6,454	18.6	532	15.9	173	20.3	1,879	16.8

Total Students in Report: 120,930

**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	27,776	10,232	17,544	3	12	22	28	23	12	1
CENTRAL MICHIGAN UNIVERSITY	Michigan	19,267	5,051	14,216	2	12	31	32	17	5	0
UNIVERSITY OF MICHIGAN-ANN ARBOR	Michigan	17,896	6,569	11,327	2	9	17	22	26	20	4
GRAND VALLEY STATE UNIVERSITY	Michigan	15,549	3,894	11,655	2	9	24	32	24	9	0
WESTERN MICHIGAN UNIVERSITY	Michigan	15,296	3,404	11,892	2	13	31	31	17	5	0
STATE-COLLEGE/NO REPORTS NOW	Iowa	14,446	14,445	1	9	28	31	17	8	5	2
WAYNE STATE UNIVERSITY	Michigan	10,435	2,925	7,510	7	25	31	21	11	4	0
FERRIS STATE UNIVERSITY	Michigan	10,107	2,756	7,351	3	17	36	27	12	4	0
EASTERN MICHIGAN UNIVERSITY	Michigan	9,812	2,425	7,387	5	22	34	25	11	3	0
OAKLAND UNIVERSITY	Michigan	7,888	1,941	5,947	3	15	30	29	16	6	0
SAGINAW VALLEY STATE UNIVERSITY	Michigan	6,402	1,643	4,759	3	18	35	27	13	4	0
GRAND RAPIDS COMMUNITY COLLEGE	Michigan	4,833	1,910	2,923	5	23	36	24	10	2	0
NORTHERN MICHIGAN UNIVERSITY	Michigan	4,225	1,346	2,879	1	12	31	31	18	6	0
MICHIGAN TECHNOLOGICAL UNIVERSITY	Michigan	4,085	1,159	2,926	4	13	22	23	22	14	2
UNIVERSITY OF MICHIGAN-DEARBORN	Michigan	3,465	744	2,721	3	16	27	28	18	7	1
MICHIGAN HIGHER EDUC ASST AUTHORITY	Michigan	3,362	1,769	1,593	4	15	28	25	17	9	2
OAKLAND COMMUNITY COLLEGE	Michigan	3,297	1,006	2,291	7	28	37	20	7	1	0
NCAA ELIGIBILITY CENTER	Indiana	3,244	1,617	1,627	4	17	30	25	17	7	1
MACOMB COMMUNITY COLLEGE	Michigan	3,062	1,199	1,863	7	30	37	19	6	1	0
UNIVERSITY OF MICHIGAN-FLINT	Michigan	2,751	657	2,094	5	18	30	26	15	5	0
LANSING COMMUNITY COLLEGE	Michigan	2,714	992	1,722	6	24	38	21	9	2	0
HENRY FORD COMMUNITY COLLEGE	Michigan	2,467	792	1,675	11	34	35	16	4	0	0
DELTA COLLEGE	Michigan	2,401	1,068	1,333	5	23	39	24	8	1	0
SCHOOLCRAFT COLLEGE	Michigan	2,116	694	1,422	5	26	36	23	8	2	0
LAKE SUPERIOR STATE UNIVERSITY	Michigan	2,046	558	1,488	2	14	32	30	15	6	0
DAVENPORT UNIVERSITY	Michigan	2,042	466	1,576	5	21	38	24	10	3	0
UNIVERSITY OF DETROIT MERCY	Michigan	2,017	400	1,617	7	23	31	20	13	5	0
KALAMAZOO VALLEY COMMUNITY COLLEGE	Michigan	1,970	664	1,306	7	25	38	22	6	1	0
STATE-NO COLLEGE PLANS	Iowa	1,944	1,944	0	21	44	25	8	2	0	0
HOPE COLLEGE	Michigan	1,926	427	1,499	1	6	17	26	30	17	2
All Other Institutions		117,601	30,656	86,945	6	21	29	21	13	8	2
<b>Total</b>		<b>326,442</b>	<b>105,353</b>	<b>221,089</b>	<b>5</b>	<b>18</b>	<b>29</b>	<b>24</b>	<b>15</b>	<b>8</b>	<b>1</b>

# Section V

# Optional Writing Test Results

Total Students in Report: 120,930

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

	N		Average ACT Scores					
			English		Essay		English/Writing Combined	
			State	National	State	National	State	National
<b>All Students</b>	<b>107,495</b>	<b>869,014</b>	<b>18.6</b>	<b>21.4</b>	<b>6.7</b>	<b>7.1</b>	<b>18.3</b>	<b>20.8</b>
African American/Black	15,929	107,638	14.4	16.4	6.1	6.4	14.6	16.4
American Indian/Alaska Native	946	6,232	16.3	18.9	6.1	6.6	16.1	18.4
Caucasian American/White	70,370	518,004	19.8	23.0	6.9	7.3	19.4	22.1
Hispanic	4,010	101,126	16.1	18.1	6.4	6.9	16.2	18.1
Asian American/Pacific Islander	2,541	49,922	22.5	23.6	7.5	7.7	21.9	22.9
Other/No Response	13,699	86,092	17.7	21.0	6.5	7.1	17.5	20.4
Males	53,234	384,152	18.0	21.1	6.4	6.9	17.6	20.3
Females	54,126	484,023	19.2	21.7	7.1	7.3	19.1	21.2
Missing	135	839	14.8	16.8	5.8	6.3	14.7	16.6





