

ACT High School Profile Report

The Graduating Class of 2008
Colorado



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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

20% 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. 50,420 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. 56% 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, 8% were college ready. 17% of the cohort reported taking the minimum core (Algebra I, Algebra II, and Geometry). 13% of these students were college ready. In comparison, 53% 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 20% of the cohort took less than three years of natural science courses. 10% of these students were college ready. In comparison, 31% 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 52% 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.

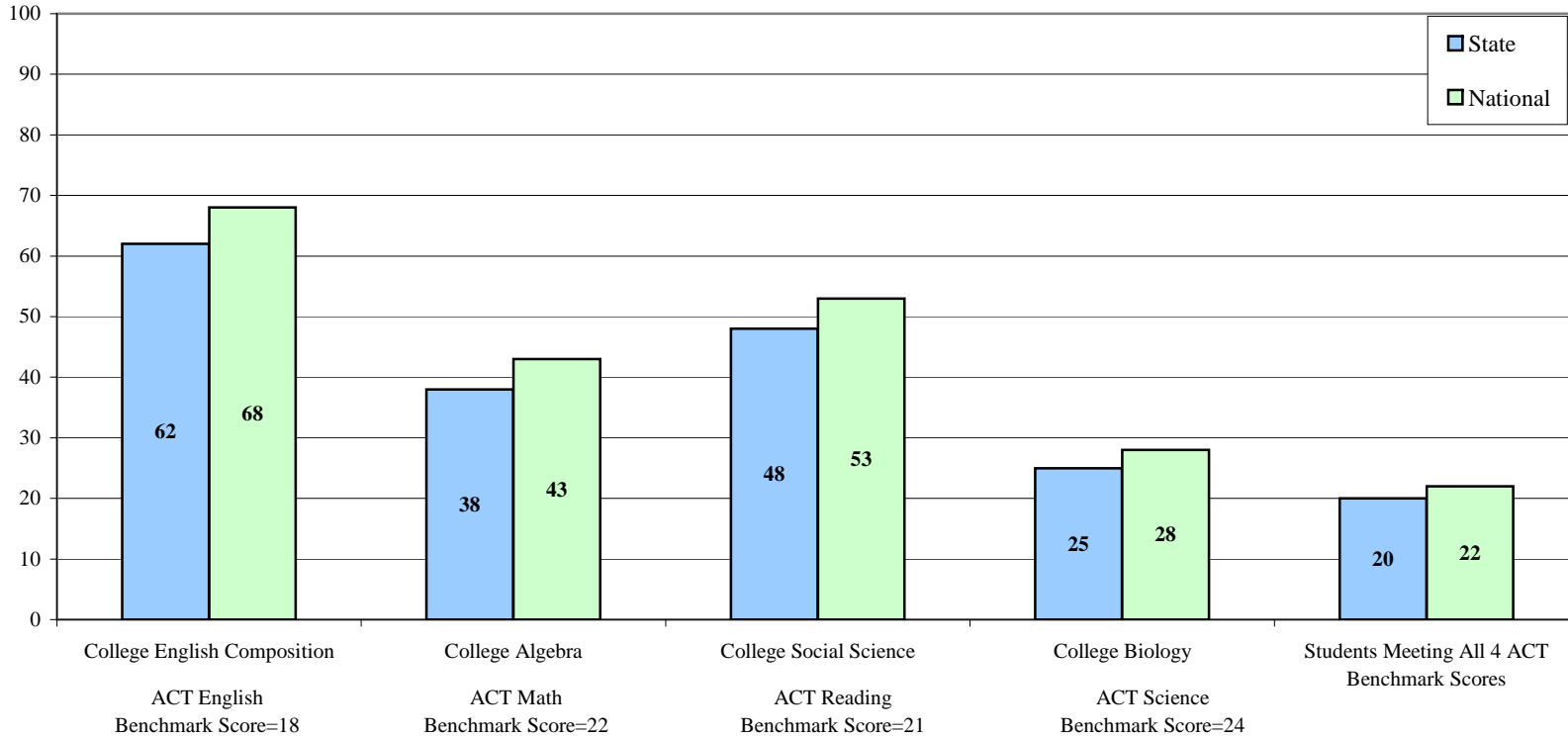
PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS. Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether among students with similar aspirations, academic performance is consistent across racial/ethnic groups.

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 916-631-9200.

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	46,183	1,171,460	62	68	36	40	48	52	24	26	19	21
2005	47,373	1,186,251	60	68	36	41	48	51	23	26	18	21
2006	47,105	1,206,455	63	69	35	42	49	53	25	27	19	21
2007	49,146	1,300,599	63	69	37	43	47	53	24	28	20	23
2008	50,420	1,421,941	62	68	38	43	48	53	25	28	20	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	46,183	1,171,460	19.5	20.4	20.0	20.7	20.6	21.3	20.4	20.9	20.3	20.9
2005	47,373	1,186,251	19.3	20.4	20.0	20.7	20.6	21.3	20.2	20.9	20.2	20.9
2006	47,105	1,206,455	19.7	20.6	19.9	20.8	20.8	21.4	20.4	20.9	20.3	21.1
2007	49,146	1,300,599	19.7	20.7	20.1	21.0	20.8	21.5	20.4	21.0	20.4	21.2
2008	50,420	1,421,941	19.8	20.6	20.3	21.0	20.8	21.4	20.4	20.8	20.5	21.1

Table 1.3. Five Year Trends—Average ACT Scores Nationwide

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

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

Grad Year	Number of Students Tested		Percent ¹		Average ACT Scores									
	Core or More	Less than Core	Core or More	Less than Core	English		Mathematics		Reading		Science		Composite	
					Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core
2004	21,430	18,924	46	41	21.5	17.5	22.0	18.2	22.5	18.9	22.0	18.8	22.1	18.5
2005	22,543	19,515	48	41	21.4	17.3	21.7	18.2	22.4	18.8	21.8	18.6	22.0	18.4
2006	22,505	18,350	48	39	21.6	17.7	21.5	18.1	22.5	19.0	21.9	18.9	22.0	18.6
2007	22,979	19,059	47	39	21.8	17.6	21.9	18.2	22.6	18.9	22.1	18.8	22.2	18.5
2008	28,084	17,279	56	34	21.7	17.5	21.9	18.3	22.5	18.9	21.9	18.6	22.1	18.5

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	46,183	100	20.3	47,373	100	20.2	47,105	100	20.3	49,146	100	20.4	50,420	100	20.5
African American/Black	1,720	4	16.9	1,640	3	16.9	1,678	4	17.1	1,840	4	17.2	1,973	4	17.1
American Indian/Alaska Native	480	1	18.2	872	2	17.8	860	2	17.9	850	2	17.6	913	2	17.9
Caucasian American/White	27,451	59	21.4	26,669	56	21.5	25,462	54	21.7	26,304	54	21.8	28,195	56	21.9
Hispanic	5,703	12	17.1	6,207	13	17.0	6,370	14	17.3	6,571	13	17.2	7,431	15	17.2
Asian American/Pacific Islander	1,509	3	20.4	1,452	3	20.6	1,487	3	20.9	1,585	3	20.9	1,577	3	21.4
Other/No Response	9,320	20	19.5	10,533	22	19.2	11,248	24	19.7	11,996	24	19.8	10,331	20	19.5

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	117	100	111	100	350	100	146	100	27	100	36
35	453	100	241	100	411	99	241	100	94	100	35
34	533	99	380	99	533	98	306	99	189	100	34
33	466	98	405	99	843	97	203	99	318	99	33
32	557	97	357	98	894	96	351	98	475	99	32
31	708	96	607	97	1,071	94	241	98	660	98	31
30	755	94	611	96	1,375	92	546	97	904	97	30
29	1,465	93	1,080	95	1,257	89	842	96	1,114	95	29
28	1,002	90	1,438	92	2,179	87	977	94	1,385	93	28
27	1,497	88	2,055	90	1,535	82	1,429	92	1,773	90	27
26	1,866	85	2,037	86	1,623	79	1,554	90	2,078	86	26
25	2,146	81	2,296	82	1,733	76	3,296	86	2,434	82	25
24	2,171	77	3,169	77	2,224	73	2,441	80	2,730	77	24
23	2,765	73	2,556	71	3,406	68	3,757	75	2,987	72	23
22	2,600	67	1,697	66	2,247	61	3,474	68	3,101	66	22
21	3,371	62	2,494	62	2,533	57	4,144	61	3,451	60	21
20	3,796	55	2,491	57	2,851	52	4,617	53	3,595	53	20
19	2,910	48	2,981	52	3,903	46	4,330	43	3,537	46	19
18	2,324	42	3,975	46	2,240	39	3,918	35	3,422	39	18
17	2,716	38	4,531	39	2,323	34	3,317	27	3,395	32	17
16	2,620	32	5,138	30	2,735	30	1,970	20	3,037	25	16
15	2,810	27	4,524	19	3,373	24	1,762	17	2,896	19	15
14	2,415	21	3,231	10	2,259	17	1,602	13	2,511	14	14
13	1,501	17	1,324	4	2,801	13	2,474	10	2,158	9	13
12	1,452	14	477	1	2,133	7	995	5	1,426	4	12
11	1,350	11	171	1	818	3	661	3	581	1	11
10	1,232	8	23	1	563	2	450	2	111	1	10
9	969	6	6	1	36	1	215	1	21	1	9
8	1,102	4	3	1	104	1	100	1	9	1	8
7	508	1	9	1	47	1	42	1	0	1	7
6	191	1	0	1	7	1	15	1	1	1	6
5	29	1	1	1	8	1	4	1	0	1	5
4	14	1	0	1	4	1	0	1	0	1	4
3	7	1	1	1	0	1	0	1	0	1	3
2	2	1	0	1	1	1	0	1	0	1	2
1	0	1	0	1	0	1	0	1	0	1	1
Avg (SD)	19.8 (6.4)		20.3 (5.2)		20.8 (6.2)		20.4 (5.0)		20.5 (5.2)		Avg (SD)

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

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

ACT Scale Score	English				Reading				Mathematics						ACT Scale Score
	Usage/ Mechanics		Rhetorical Skills		Social Studies		Arts/ Literature		Pre/Elementary Algebra		Algebra/ Coordinate Geometry		Plane Geometry/ Trigonometry		
	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	
18	1,530	100	476	100	1,080	100	1,329	100	1,455	100	242	100	339	100	18
17	1,771	97	580	99	2,509	98	1,832	97	2,104	97	730	100	478	99	17
16	1,752	93	2,633	98	2,145	93	4,119	94	2,092	93	892	98	1,577	98	16
15	1,588	90	2,468	93	2,872	89	3,089	86	2,280	89	1,355	96	2,032	95	15
14	2,633	87	3,422	88	2,698	83	1,326	79	2,886	84	3,071	94	4,436	91	14
13	2,722	82	3,684	81	5,145	78	2,588	77	4,972	79	4,472	88	3,140	82	13
12	3,422	76	5,062	74	3,755	67	5,707	72	3,370	69	4,231	79	6,336	76	12
11	4,168	69	5,202	64	4,200	60	4,786	60	3,273	62	5,406	70	6,437	64	11
10	6,087	61	6,001	53	5,235	52	4,393	51	4,359	56	6,088	60	6,445	51	10
9	4,475	49	5,278	41	4,674	41	4,273	42	5,121	47	8,540	47	7,968	38	9
8	4,301	40	5,151	31	6,714	32	4,634	34	6,455	37	5,242	31	4,577	22	8
7	4,815	32	3,351	21	3,356	19	3,713	24	6,057	24	4,163	20	3,380	13	7
6	3,290	22	2,671	14	2,711	12	3,154	17	3,855	12	3,181	12	689	6	6
5	2,796	16	2,318	9	1,738	7	3,954	11	1,266	4	664	6	1,475	5	5
4	2,805	10	1,423	4	981	3	979	3	579	2	1,345	4	327	2	4
3	1,326	4	555	1	430	1	410	1	217	1	679	2	553	2	3
2	865	2	137	1	36	1	125	1	68	1	12	1	86	1	2
1	74	1	8	1	141	1	9	1	11	1	107	1	145	1	1
Avg (SD)	9.7 (3.9)		10.3 (3.4)		10.7 (3.6)		10.5 (3.8)		10.5 (3.6)		9.9 (3.0)		10.5 (2.9)		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)	24	24	25	23	24
Q2 (50th Percentile)	20	19	20	20	20
Q1 (25th Percentile)	15	16	16	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	50,420	56	22.1	18.5
	African Am./Black	1,973	51	18.4	15.9
	Am. Indian/Alaska Native	913	42	19.6	16.7
	Caucasian Am./White	28,195	64	23.1	19.7
	Hispanic	7,431	44	18.8	16.1
	Asian Am./Pacific Islander	1,577	67	22.6	19.2
	Other/No Response	10,331	43	21.6	18.1
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	19.8	20.3	20.8	20.4	20.5
	African Am./Black	16.1	17.1	17.3	17.5	17.1
	Am. Indian/Alaska Native	16.6	18.0	18.4	18.1	17.9
	Caucasian Am./White	21.5	21.6	22.3	21.7	21.9
	Hispanic	15.8	17.5	17.4	17.6	17.2
	Asian Am./Pacific Islander	20.4	22.2	21.0	21.4	21.4
	Other/No Response	18.7	19.4	20.0	19.5	19.5
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	1,569	3	1,137	2	2,137	4	896	2
	28 to 32	4,487	9	4,093	8	6,776	13	2,957	6
	24 to 27	7,680	15	9,557	19	7,115	14	8,720	17
	20 to 23	12,532	25	9,238	18	11,037	22	15,992	32
	16 to 19	10,570	21	16,625	33	11,201	22	13,535	27
	13 to 15	6,726	13	9,079	18	8,433	17	5,838	12
	01 to 12	6,856	14	691	1	3,721	7	2,482	5
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	24,378	48	19.1	20.7	20.4	20.6	20.3
	Females	25,371	50	20.4	19.9	21.2	20.2	20.6
	Missing	671	1	20.2	21.1	21.3	20.6	20.9
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	59	41	45	27	21
	Females	66	35	51	23	18
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	28,084	76	21.7	51	21.9	60	22.5	34	21.9	28	22.1
	Non-Core	17,279	47	17.5	21	18.3	34	18.9	13	18.6	9	18.5
	Missing	5,057	42	16.8	23	18.2	31	18.3	14	18.2	11	18.0
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	39,520	68	20.5	39,215	44	21.2	39,989	52	21.5	35,899	31	21.3
	Non-Core	6,620	43	16.9	6,586	8	16.5	5,918	30	18.3	9,904	10	18.1
	Missing	4,280	43	16.9	4,619	23	18.2	4,513	32	18.5	4,617	14	18.3
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

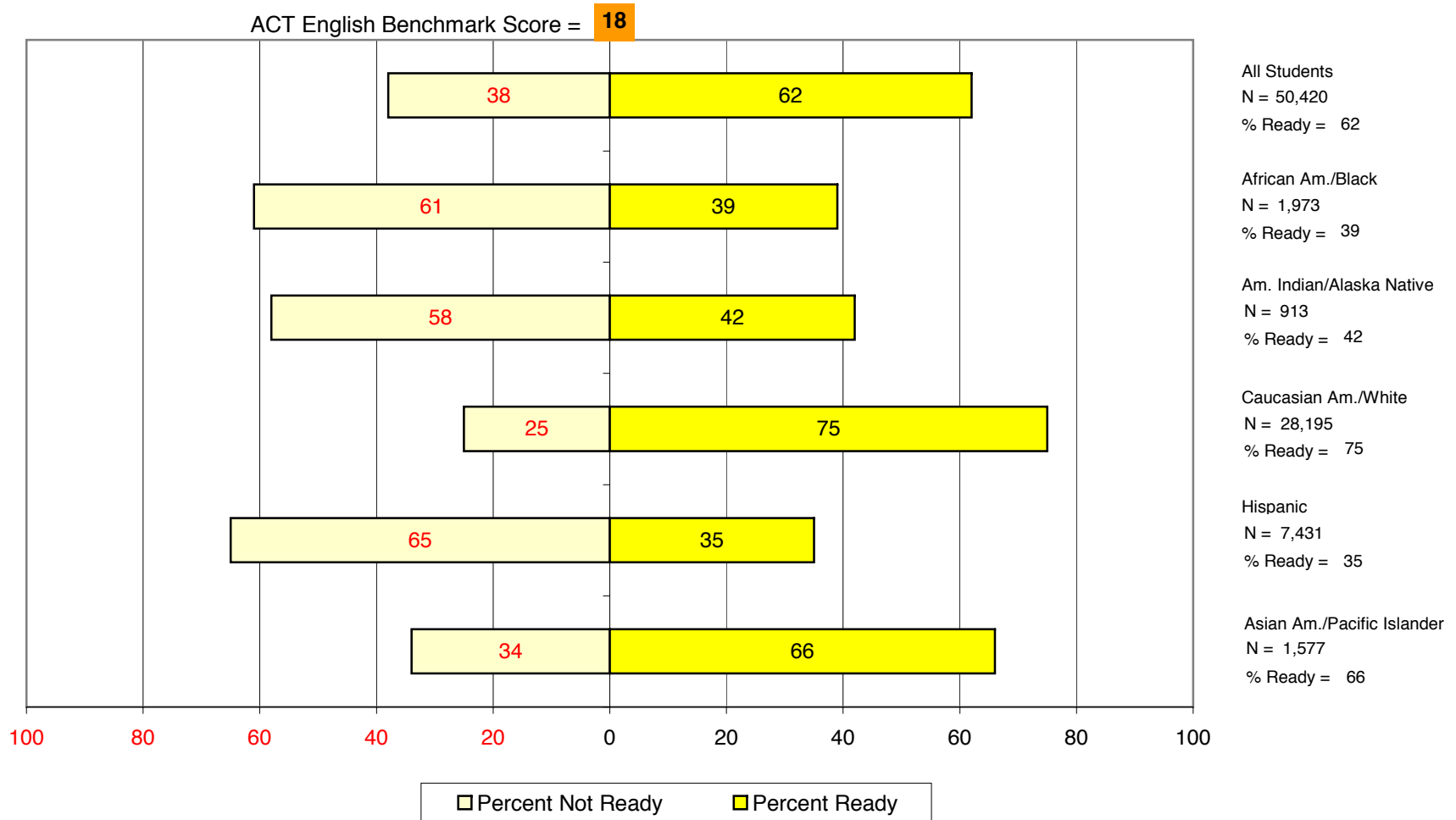


Figure 3.2. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

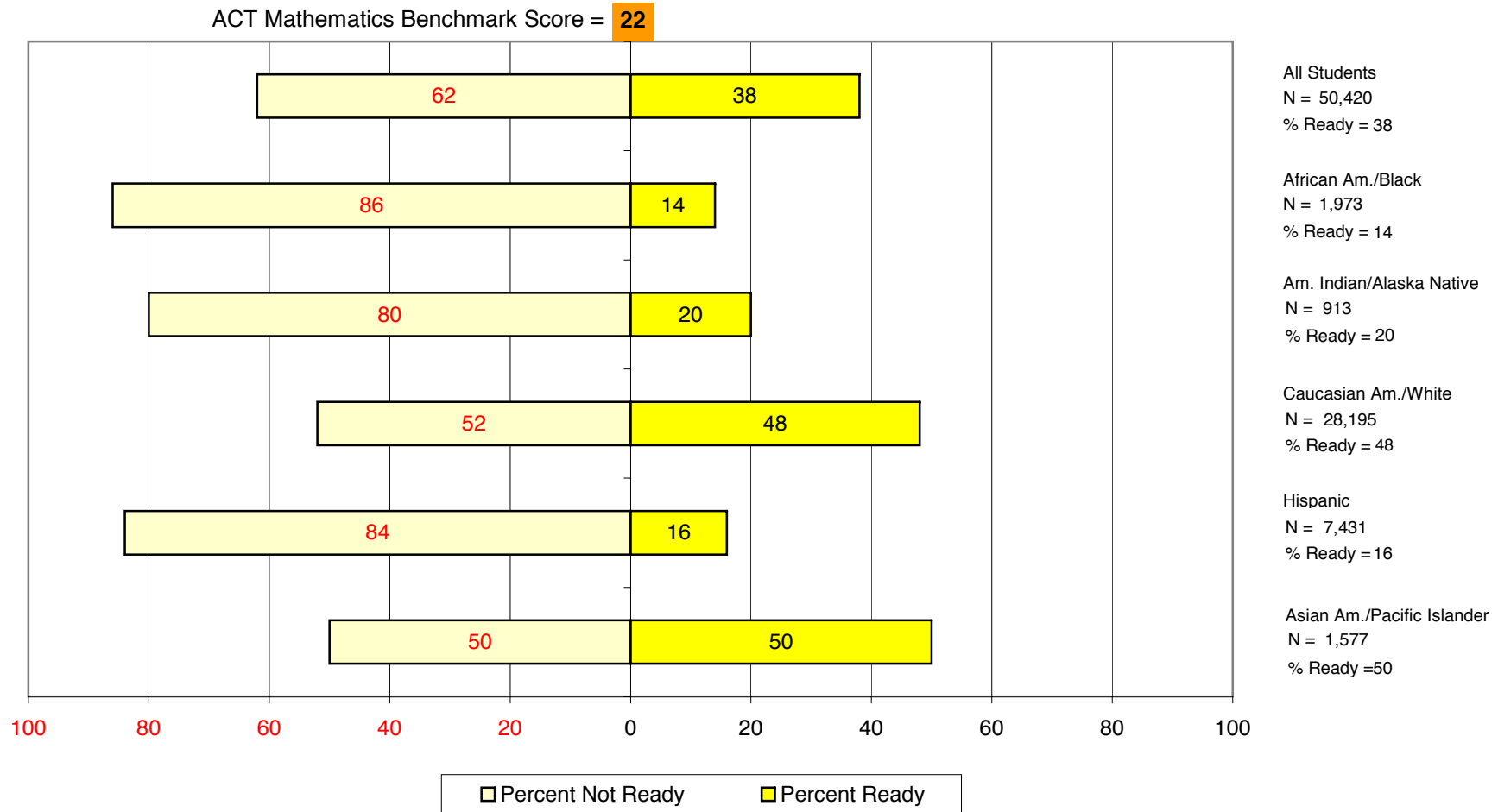


Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: **READING**

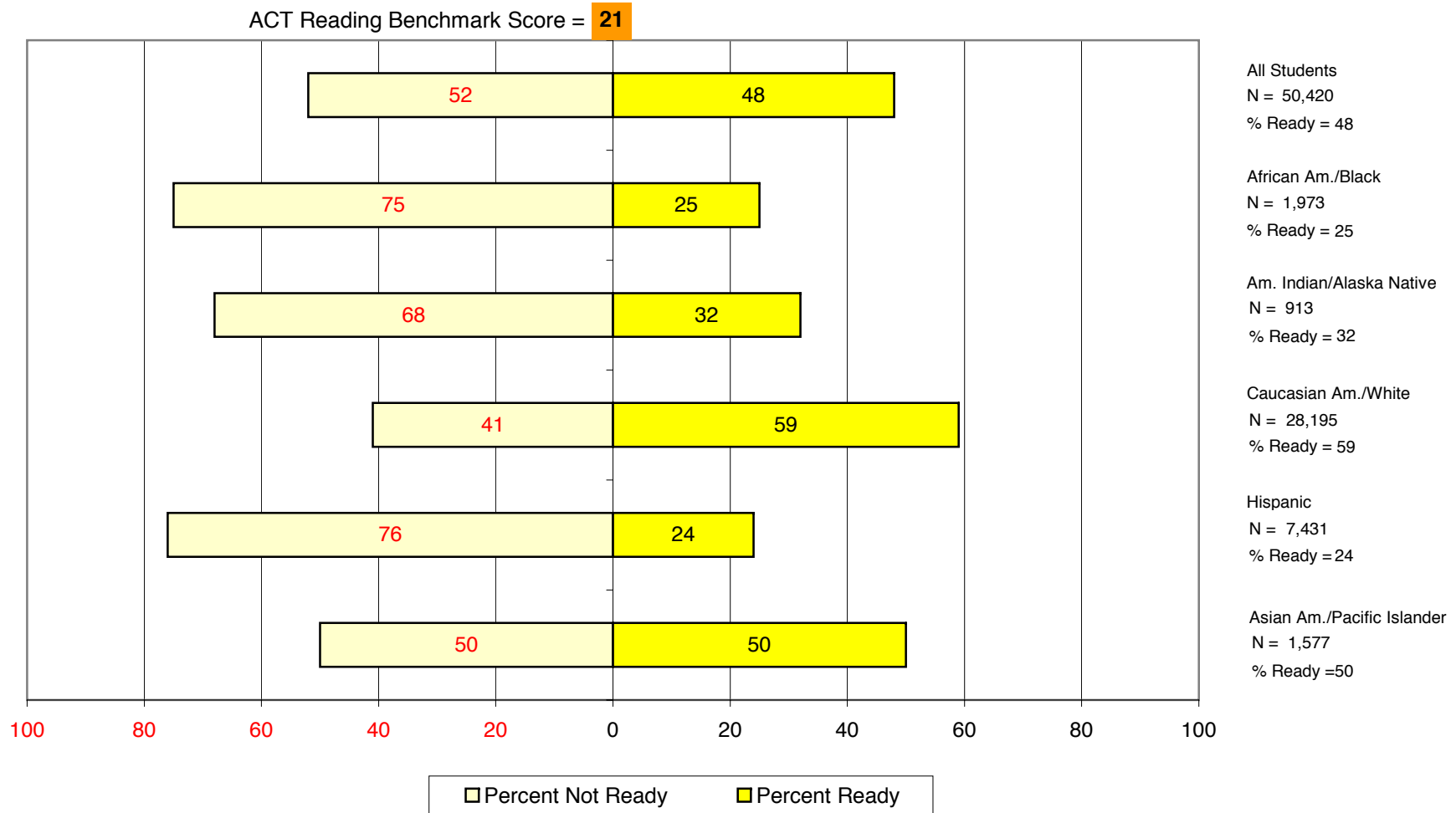


Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

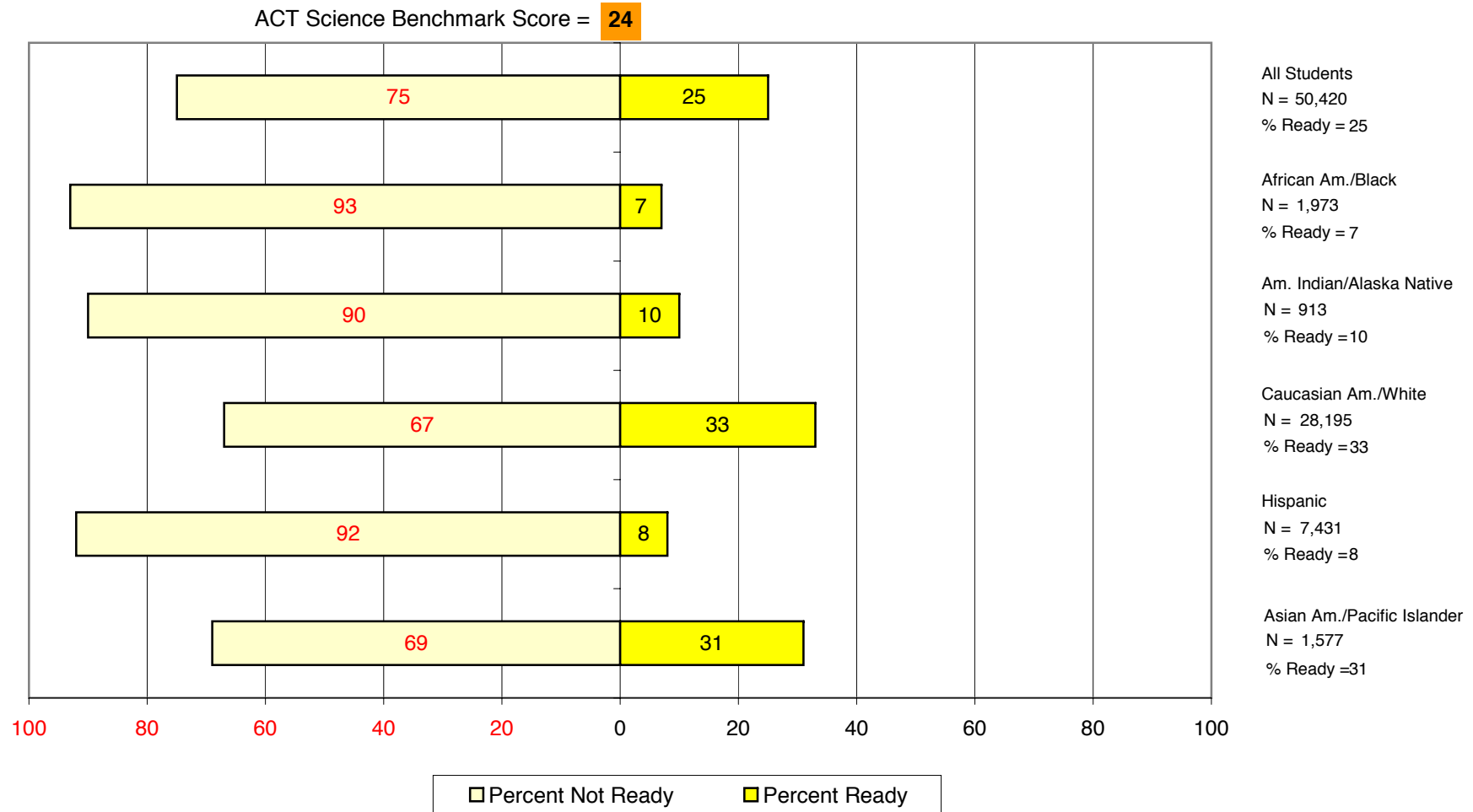


Figure 3.5. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR

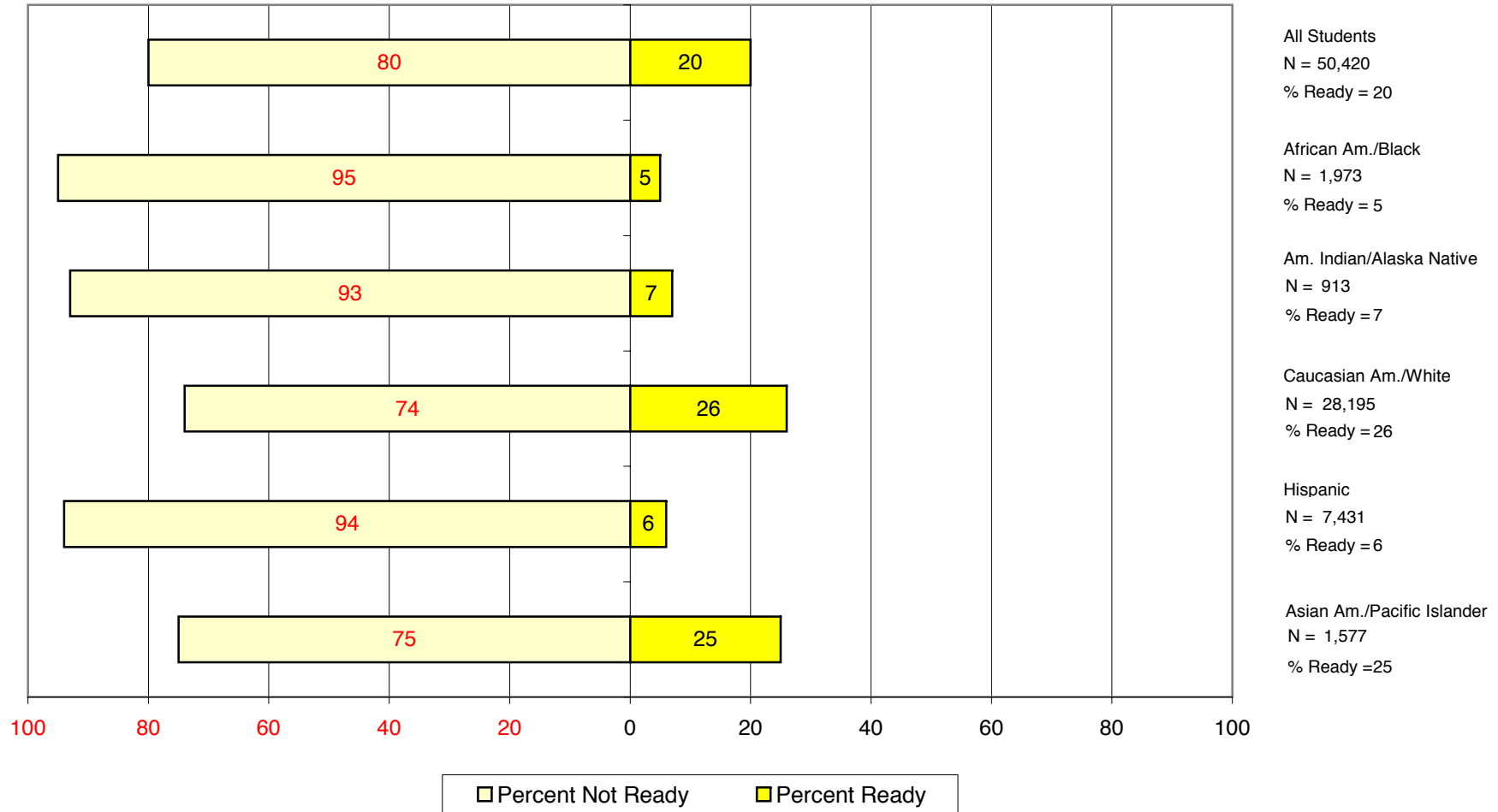


Table 3.1. Average ACT Scores and ACT Average Score Changes by Common Course Patterns

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	12,612	25	21.2	4.3	5,182	21	20.5	4.2	7,316	29	21.7	4.1
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	26,908	53	20.2	3.3	13,398	55	19.8	3.5	13,235	52	20.7	3.1
Less than 4 years of English	6,661	13	16.9	-	3,526	14	16.3	-	3,018	12	17.6	-
No English course/grade information reported	4,239	8	16.9	-	2,272	9	16.3	-	1,802	7	17.2	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	3,541	7	24.4	7.9	1,707	7	24.9	8.1	1,785	7	23.9	7.6
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	4,501	9	22.5	6.0	1,772	7	23.1	6.3	2,679	11	22.1	5.8
Alg 1, Alg 2, Geom, & Trig	4,247	8	20.4	3.9	1,957	8	20.8	4.0	2,252	9	19.9	3.6
Alg 1, Alg 2, Geom, & Other Adv Math	5,312	11	19.9	3.4	2,178	9	20.4	3.6	3,087	12	19.6	3.3
Other comb of 4 or more years of Math	10,713	21	23.7	7.2	5,641	23	24.3	7.5	4,973	20	23.1	6.8
Alg 1, Alg 2, & Geom (Min. Core)	8,695	17	17.7	1.2	4,083	17	18.0	1.2	4,510	18	17.3	1.0
Other comb of 3 or 3.5 years of Math	2,206	4	20.1	3.6	1,106	5	20.4	3.6	1,071	4	19.7	3.4
Less than 3 years of Math	6,816	14	16.5	-	3,592	15	16.8	-	3,141	12	16.3	-
No Math course/grade information reported	4,389	9	18.3	-	2,342	10	18.3	-	1,873	7	17.8	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	869	2	21.7	3.4	461	2	21.1	3.2	393	2	22.3	3.6
Other comb of 4 or more years Social Science	23,462	47	21.8	3.5	10,536	43	21.5	3.6	12,709	50	22.1	3.4
US Hist, World Hist, & Am Gov (Min. Core)	2,027	4	19.6	1.3	1,081	4	19.1	1.2	918	4	20.1	1.4
Other comb of 3 or 3.5 years of Social Science	13,631	27	21.1	2.8	6,615	27	20.8	2.9	6,882	27	21.3	2.6
Less than 3 years of Social Science	6,000	12	18.3	-	3,303	14	17.9	-	2,597	10	18.7	-
No Soc Sci course/grade information reported	4,431	9	18.5	-	2,382	10	18.0	-	1,872	7	18.6	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	15,978	32	21.9	3.8	8,301	34	22.4	4.4	7,501	30	21.2	3.0
Bio, Chem, Phys	2,393	5	23.4	5.3	1,214	5	24.0	6.0	1,149	5	22.7	4.5
Gen Sci ² , Bio, Chem (Min. Core)	14,987	30	20.5	2.4	6,135	25	20.5	2.5	8,720	34	20.5	2.3
Other comb of 3 years of Natural Science	2,541	5	20.4	2.3	1,428	6	21.0	3.0	1,091	4	19.7	1.5
Less than 3 years of Natural Science	10,108	20	18.1	-	4,928	20	18.0	-	5,046	20	18.2	-
No Nat Sci course/grade information reported	4,413	9	18.3	-	2,372	10	18.3	-	1,864	7	18.0	-

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	12,612	25	21.2	72	266,394	19	21.8	76
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	26,908	53	20.2	66	949,721	67	20.5	68
Less than 4 years of English	6,661	13	16.9	43	112,496	8	18.8	56
No English course/grade information reported	4,239	8	16.9	43	93,330	7	20.2	64
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	3,541	7	24.4	72	91,985	6	24.8	74
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	4,501	9	22.5	59	113,879	8	22.3	57
Alg 1, Alg 2, Geom, & Trig	4,247	8	20.4	39	116,105	8	20.4	38
Alg 1, Alg 2, Geom, & Other Adv Math	5,312	11	19.9	34	204,909	14	20.4	38
Other comb of 4 or more years of Math	10,713	21	23.7	65	342,493	24	23.9	66
Alg 1, Alg 2, & Geom (Min. Core)	8,695	17	17.7	13	251,813	18	17.8	14
Other comb of 3 or 3.5 years of Math	2,206	4	20.1	34	70,951	5	20.8	41
Less than 3 years of Math	6,816	14	16.5	8	131,252	9	17.4	14
No Math course/grade information reported	4,389	9	18.3	23	98,554	7	21.1	44
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	869	2	21.7	53	42,546	3	22.7	61
Other comb of 4 or more years Social Science	23,462	47	21.8	55	604,055	42	21.9	56
US Hist, World Hist, & Am Gov (Min. Core)	2,027	4	19.6	39	86,500	6	20.8	48
Other comb of 3 or 3.5 years of Social Science	13,631	27	21.1	50	404,731	28	21.3	52
Less than 3 years of Social Science	6,000	12	18.3	30	185,561	13	20.4	45
No Soc Sci course/grade information reported	4,431	9	18.5	32	98,548	7	21.1	50
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	15,978	32	21.9	37	453,654	32	22.2	38
Bio, Chem, Phys	2,393	5	23.4	49	134,033	9	23.2	47
Gen Sci ¹ , Bio, Chem (Min. Core)	14,987	30	20.5	22	435,183	31	20.1	20
Other comb of 3 years of Natural Science	2,541	5	20.4	25	40,179	3	20.1	22
Less than 3 years of Natural Science	10,108	20	18.1	10	259,142	18	18.7	13
No Nat Sci course/grade information reported	4,413	9	18.3	15	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	785	2	18.3	161	3	16.3	557	2	19.1
Architecture & Environmental Design	1,040	2	20.6	86	2	16.3	890	3	21.1
Business & Management	4,666	9	20.9	323	7	16.6	4,110	12	21.4
Business & Office	233	0	18.8	43	1	15.7	170	0	19.8
Marketing & Distribution	425	1	19.5	50	1	15.8	345	1	20.1
Communications & Comm. Technologies	1,243	2	21.5	99	2	16.3	1,085	3	22.0
Community & Personal Services	1,669	3	17.7	439	9	16.4	1,062	3	18.4
Computer & Information Sciences	848	2	21.0	100	2	17.6	695	2	21.5
Cross-Disciplinary Studies	71	0	24.5	3	0	16.0	66	0	25.1
Education	1,283	3	20.7	66	1	16.1	1,138	3	21.0
Teacher Education	1,135	2	20.5	66	1	15.7	999	3	21.0
Engineering	2,759	5	22.5	264	5	15.4	2,350	7	23.5
Engineering-Related Technologies	1,120	2	21.8	135	3	15.8	918	3	22.8
Foreign Languages	341	1	22.3	26	1	16.5	294	1	23.0
Health Sciences & Allied Health Fields	6,129	12	20.5	498	10	16.3	5,289	15	21.0
Human, Family & Consumer Science	832	2	18.2	158	3	16.2	587	2	18.8
Letters	488	1	24.1	22	0	19.4	443	1	24.4
Mathematics	212	0	24.4	12	0	18.7	183	1	24.9
Philosophy, Religion & Theology	304	1	21.8	23	0	17.3	255	1	22.3
Sciences (Biological & Physical)	2,322	5	23.2	71	1	17.4	2,147	6	23.6
Social Sciences	3,114	6	22.2	78	2	16.9	2,895	8	22.5
Trade & Industrial	996	2	17.6	519	11	16.9	398	1	18.7
Visual & Performing Arts	4,135	8	20.3	595	12	17.0	3,174	9	21.1
Undecided	5,310	11	20.6	615	13	16.0	4,030	11	21.7
No Response	8,960	18	18.6	412	8	14.6	1,084	3	20.2

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	1,434	16.2	51	14.4	67	15.4	730	17.4	387	14.6	25	16.2	174	15.8
2-yr College Degree	3,430	16.3	119	14.6	132	15.7	1,689	17.5	972	14.7	67	16.2	451	16.2
Bachelors Degree	16,242	20.4	639	16.8	291	18.2	10,685	21.4	2,350	17.6	475	19.9	1,802	19.9
Graduate Study	7,723	23.2	245	18.7	97	19.8	5,440	24.0	782	19.5	295	23.3	864	22.7
Prof. Level Degree	11,199	22.1	566	18.4	188	20.0	6,545	23.4	1,747	18.7	573	22.9	1,580	21.9
Other	2,117	17.4	108	15.1	59	16.1	1,075	18.6	403	15.4	49	17.3	423	17.4
No Response	8,275	19.0	245	16.0	79	16.4	2,031	21.3	790	15.7	93	20.8	5,037	18.7

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
STATE-COLLEGE/NO REPORTS NOW	Iowa	10,784	10,544	240	6	21	30	23	13	6	1
COLORADO STATE UNIVERSITY	Colorado	10,293	4,071	6,222	1	6	22	34	25	10	1
UNIV OF COLORADO-BOULDER	Colorado	9,791	3,483	6,308	1	6	19	30	28	14	1
UNIV OF NORTHERN COLORADO	Colorado	5,394	1,410	3,984	1	8	29	35	21	6	0
UNIVERSITY OF DENVER	Colorado	4,237	866	3,371	3	11	22	27	24	13	1
METROPOLITAN STATE COLL OF DENVER THE	Colorado	3,980	1,412	2,568	5	20	38	26	9	2	0
UNIV OF COLORADO-COLORADO SPRINGS	Colorado	2,707	738	1,969	2	9	27	35	20	7	0
MESA STATE COLLEGE	Colorado	2,129	756	1,373	3	15	36	33	11	2	0
COLORADO SCHOOL OF MINES	Colorado	1,928	710	1,218	1	3	9	22	34	28	3
NCAA ELIGIBILITY CENTER	Indiana	1,851	943	908	2	10	27	31	21	8	1
U OF COLORADO AT DENVER/HLTH SCI CNTR	Colorado	1,609	430	1,179	3	14	26	32	18	7	0
COLORADO STATE UNIVERSITY-PUEBLO	Colorado	1,591	479	1,112	4	14	37	29	13	3	0
STATE-NO COLLEGE PLANS	Iowa	1,485	1,446	39	18	39	28	12	3	0	0
REGIS UNIVERSITY	Colorado	1,334	248	1,086	4	14	29	28	18	7	0
ART INSTITUTE OF COLORADO THE	Colorado	1,292	460	832	6	21	35	25	11	2	0
ADAMS STATE COLLEGE	Colorado	1,276	371	905	3	20	38	27	10	2	0
FRONT RANGE COMMUNITY COLLEGE	Colorado	1,261	445	816	6	24	37	24	8	2	0
COLORADO COLLEGE	Colorado	1,258	329	929	3	10	22	24	20	18	3
COMMUNITY COLLEGE OF DENVER	Colorado	1,255	353	902	15	38	33	10	3	1	0
FORT LEWIS COLLEGE	Colorado	1,215	354	861	1	8	32	37	18	4	0
WESTERN STATE COLLEGE OF COLORADO	Colorado	1,085	272	813	1	11	33	35	17	4	0
UNIVERSITY OF WYOMING	Wyoming	996	242	754	1	6	25	34	24	9	1
ARIZONA STATE UNIV AT THE TEMPE CAMPUS	Arizona	994	271	723	1	7	25	33	25	8	1
PIKES PEAK COMMUNITY COLLEGE	Colorado	951	358	593	4	20	40	26	7	2	0
RED ROCKS COMMUNITY COLLEGE	Colorado	931	282	649	7	25	37	23	8	1	0
JOHNSON & WALES UNIVERSITY-DENVER	Colorado	759	284	475	5	24	35	22	12	2	0
COMMUNITY COLLEGE OF AURORA	Colorado	695	242	453	14	37	33	12	3	1	0
UNIVERSITY OF ARIZONA	Arizona	694	150	544	1	6	23	32	27	9	1
ARAPAHOE COMMUNITY COLLEGE	Colorado	687	249	438	6	24	40	24	5	1	0
DEVRY UNIVERSITY-DENVER CO	Colorado	672	133	539	14	28	31	17	8	2	0
All Other Institutions		43,709	10,712	32,997	3	13	23	25	21	14	2
Total		118,843	43,043	75,800	3	13	26	27	19	10	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	6,219	770,529	24.8	21.4	8.0	7.3	24.0	20.9
African Am./Black	246	86,049	19.8	16.6	7.1	6.5	19.6	16.6
Am. Indian/Alaska Native	32	5,148	22.3	18.9	7.8	6.7	22.0	18.5
Caucasian Am./White	4,298	464,177	25.4	22.5	8.1	7.4	24.6	21.8
Hispanic	467	71,060	21.9	18.3	7.8	7.1	21.6	18.5
Asian Am./Pacific Islander	289	37,359	24.6	23.1	8.1	7.9	24.0	22.6
Other/No Response	887	106,736	25.0	22.2	8.0	7.5	24.2	21.7
Males	2,578	327,613	24.2	20.9	7.8	7.0	23.3	20.2
Females	3,468	421,968	25.2	21.7	8.2	7.6	24.5	21.3
Missing	173	20,948	26.0	23.9	8.5	7.9	25.4	23.2

