

ACT High School Profile Report

The Graduating Class of 2008
Montana



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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

26% 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. 6,286 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 12% of the cohort took less than three years of math courses. Of these students, 19% were college ready. 19% of the cohort reported taking the minimum core (Algebra I, Algebra II, and Geometry). 22% of these students were college ready. In comparison, 64% 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. 16% of these students were college ready. In comparison, 41% 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 37% 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.

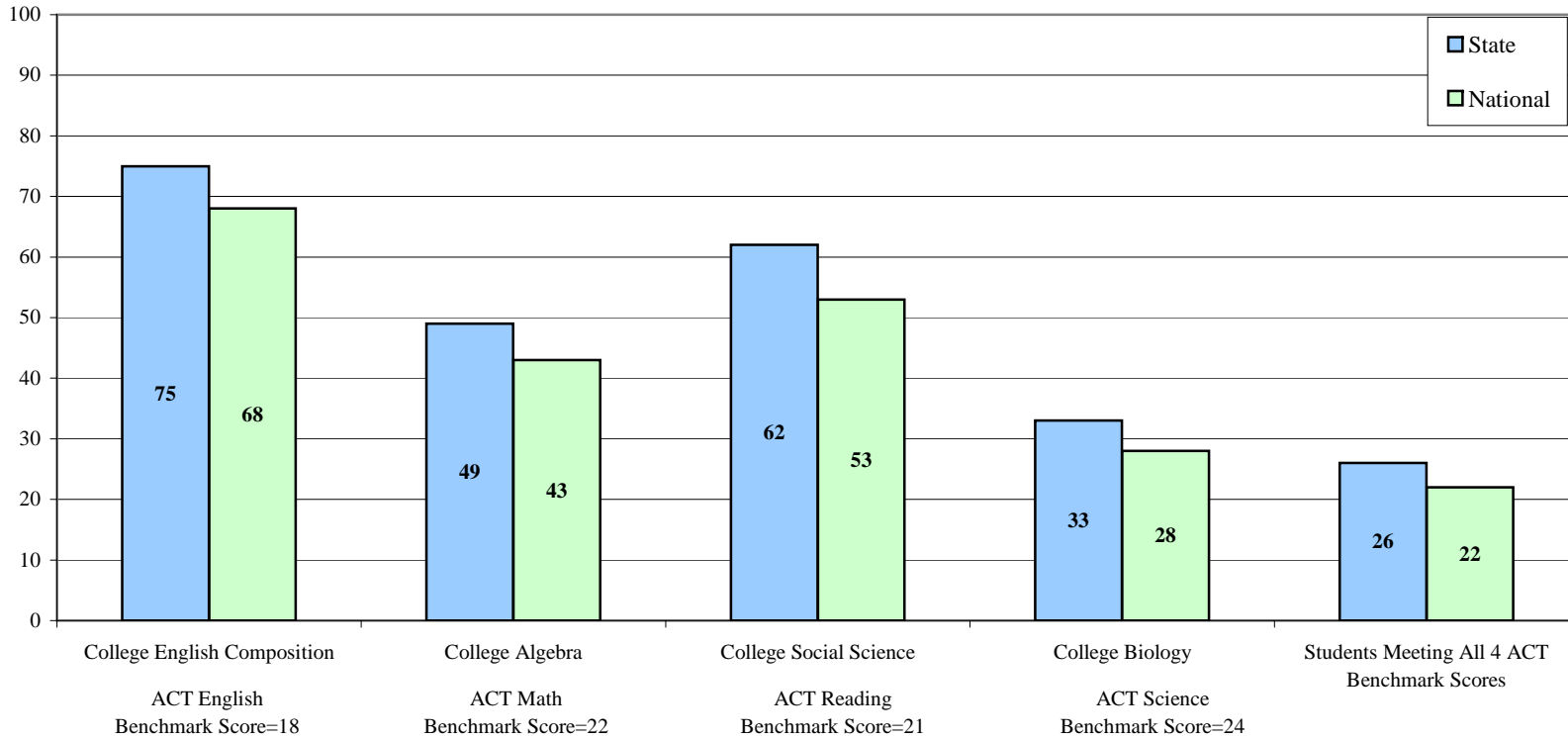
PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS. Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether among students with similar aspirations, academic performance is consistent across racial/ethnic groups.

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	6,255	1,171,460	73	68	47	40	60	52	33	26	25	21
2005	6,178	1,186,251	74	68	48	41	60	51	33	26	26	21
2006	6,033	1,206,455	74	69	49	42	61	53	33	27	26	21
2007	6,066	1,300,599	75	69	50	43	60	53	34	28	26	23
2008	6,286	1,421,941	75	68	49	43	62	53	33	28	26	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	6,255	1,171,460	20.8	20.4	21.4	20.7	22.4	21.3	21.7	20.9	21.7	20.9
2005	6,178	1,186,251	21.0	20.4	21.5	20.7	22.4	21.3	21.8	20.9	21.8	20.9
2006	6,033	1,206,455	21.0	20.6	21.7	20.8	22.5	21.4	21.8	20.9	21.9	21.1
2007	6,066	1,300,599	21.2	20.7	21.7	21.0	22.5	21.5	21.8	21.0	21.9	21.2
2008	6,286	1,421,941	21.3	20.6	21.8	21.0	22.7	21.4	21.8	20.8	22.0	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	3,121	2,749	50	44	22.3	19.2	23.2	19.6	23.9	20.9	23.1	20.3	23.2	20.1
2005	3,154	2,582	51	42	22.3	19.4	23.1	19.8	23.7	21.0	23.1	20.4	23.2	20.3
2006	2,875	2,633	48	44	22.3	19.8	23.1	20.4	23.7	21.5	22.9	20.8	23.1	20.8
2007	2,788	2,545	46	42	22.7	19.7	23.2	20.3	23.8	21.2	23.1	20.7	23.3	20.6
2008	3,519	2,407	56	38	22.5	19.8	23.2	20.0	23.8	21.4	23.0	20.4	23.2	20.5

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	6,255	100	21.7	6,178	100	21.8	6,033	100	21.9	6,066	100	21.9	6,286	100	22.0
African American/Black	16	0	19.2	18	0	18.4	16	0	19.5	18	0	17.3	14	0	20.9
American Indian/Alaska Native	300	5	17.4	312	5	17.1	269	4	17.5	286	5	18.1	325	5	17.7
Caucasian American/White	5,259	84	22.0	5,154	83	22.1	4,896	81	22.1	4,812	79	22.1	5,241	83	22.3
Hispanic	94	2	19.8	92	1	20.4	95	2	20.2	94	2	20.8	92	1	20.8
Asian American/Pacific Islander	71	1	22.5	71	1	20.9	67	1	22.4	66	1	22.3	82	1	22.5
Other/No Response	515	8	21.4	531	9	21.8	690	11	22.2	790	13	22.1	532	8	22.2

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	10	100	12	100	41	100	14	100	1	100	36
35	45	100	24	100	72	99	20	100	8	100	35
34	72	99	33	99	77	98	33	99	22	100	34
33	64	98	74	99	109	97	57	99	45	100	33
32	64	97	68	98	152	95	47	98	71	99	32
31	97	96	66	97	207	93	46	97	84	98	31
30	115	94	137	96	242	90	93	97	135	96	30
29	167	93	161	93	263	86	107	95	161	94	29
28	163	90	243	91	269	81	164	93	243	92	28
27	194	87	297	87	240	77	223	91	279	88	27
26	294	84	365	82	285	73	288	87	324	83	26
25	355	80	443	76	302	69	536	83	385	78	25
24	396	74	421	69	394	64	471	74	489	72	24
23	375	68	411	63	481	58	503	67	516	64	23
22	501	62	349	56	353	50	663	59	523	56	22
21	605	54	419	51	404	45	513	48	560	48	21
20	463	44	375	44	463	38	698	40	525	39	20
19	415	37	393	38	419	31	537	29	480	30	19
18	350	30	491	32	242	24	383	20	424	23	18
17	327	25	492	24	298	20	214	14	342	16	17
16	270	19	538	16	279	15	237	11	285	11	16
15	291	15	314	8	235	11	134	7	169	6	15
14	201	10	113	3	187	7	105	5	111	3	14
13	146	7	36	1	146	4	82	3	65	2	13
12	101	5	9	1	76	2	60	2	33	1	12
11	72	3	1	1	24	1	33	1	4	1	11
10	69	2	0	1	15	1	16	1	2	1	10
9	35	1	1	1	2	1	5	1	0	1	9
8	17	1	0	1	6	1	4	1	0	1	8
7	11	1	0	1	2	1	0	1	0	1	7
6	1	1	0	1	1	1	0	1	0	1	6
5	0	1	0	1	0	1	0	1	0	1	5
4	0	1	0	1	0	1	0	1	0	1	4
3	0	1	0	1	0	1	0	1	0	1	3
2	0	1	0	1	0	1	0	1	0	1	2
1	0	1	0	1	0	1	0	1	0	1	1
Avg (SD)	21.3 (5.4)		21.8 (4.9)		22.7 (5.7)		21.8 (4.4)		22.0 (4.5)		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	174	100	37	100	213	100	165	100	271	100	28	100	51	100	18
17	189	97	111	99	270	97	332	97	267	96	93	100	19	99	17
16	311	94	288	98	405	92	586	92	365	91	107	98	259	99	16
15	239	89	434	93	494	86	508	83	371	86	236	96	296	95	15
14	395	85	387	86	441	78	568	75	515	80	595	93	706	90	14
13	536	79	583	80	565	71	369	66	615	72	611	83	581	79	13
12	475	71	947	71	577	62	680	60	627	62	671	73	905	70	12
11	720	63	810	56	776	53	653	49	647	52	1,015	63	719	55	11
10	748	52	919	43	609	40	633	39	667	41	1,160	47	1,023	44	10
9	675	40	576	28	674	31	479	29	460	31	775	28	709	27	9
8	604	29	572	19	573	20	442	21	739	24	474	16	406	16	8
7	430	19	282	10	307	11	309	14	522	12	161	8	254	10	7
6	331	13	165	5	214	6	263	9	153	3	191	6	129	6	6
5	228	7	106	3	96	3	205	5	47	1	101	3	124	4	5
4	160	4	52	1	52	1	64	1	14	1	32	1	46	2	4
3	53	1	16	1	14	1	20	1	4	1	27	1	43	1	3
2	17	1	1	1	5	1	9	1	1	1	4	1	12	1	2
1	1	1	0	1	1	1	1	1	1	1	5	1	4	1	1
Avg (SD)	10.6 (3.5)		11.1 (2.9)		11.5 (3.3)		11.6 (3.5)		11.5 (3.3)		10.8 (2.6)		11.0 (2.8)		Avg (SD)

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

Table 2.3. ACT Score Quartile Values for All Students

Quartile	English	Math	Reading	Science	Composite
Q3 (75th Percentile)	25	25	27	25	25
Q2 (50th Percentile)	21	21	22	22	22
Q1 (25th Percentile)	18	18	19	19	19

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	6,286	56	23.2	20.5
	African Am./Black	14	36	22.2	20.3
	Am. Indian/Alaska Native	325	37	19.3	17.5
	Caucasian Am./White	5,241	58	23.4	20.7
	Hispanic	92	39	22.3	19.9
	Asian Am./Pacific Islander	82	55	23.9	20.4
	Other/No Response	532	54	23.4	20.6
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	21.3	21.8	22.7	21.8	22.0
	African Am./Black	20.1	19.9	22.2	20.6	20.9
	Am. Indian/Alaska Native	16.1	17.8	18.2	18.3	17.7
	Caucasian Am./White	21.6	22.0	23.0	22.1	22.3
	Hispanic	19.6	20.3	21.9	20.7	20.8
	Asian Am./Pacific Islander	21.2	23.4	22.9	22.1	22.5
	Other/No Response	21.6	21.9	23.0	21.7	22.2
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	191	3	143	2	299	5	124	2
	28 to 32	606	10	675	11	1,133	18	457	7
	24 to 27	1,239	20	1,526	24	1,221	19	1,518	24
	20 to 23	1,944	31	1,554	25	1,701	27	2,377	38
	16 to 19	1,362	22	1,914	30	1,238	20	1,371	22
	13 to 15	638	10	463	7	568	9	321	5
	01 to 12	306	5	11	0	126	2	118	2
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	2,785	44	20.7	22.5	22.5	22.3	22.1
	Females	3,409	54	21.7	21.1	22.8	21.4	21.9
	Missing	92	1	22.1	22.6	24.0	21.6	22.7
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	72	56	60	38	29
	Females	78	44	63	29	23
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	3,519	83	22.5	62	23.2	70	23.8	43	23.0	35	23.2
	Non-Core	2,407	67	19.8	34	20.0	53	21.4	21	20.4	15	20.5
	Missing	360	56	19.0	32	19.7	48	20.9	21	20.0	16	20.0
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	5,641	76	21.4	5,253	55	22.4	5,281	63	22.9	4,214	41	22.7
	Non-Core	380	74	21.1	707	19	18.4	717	57	22.2	1,760	16	19.8
	Missing	265	56	19.1	326	30	19.4	288	48	20.9	312	23	20.4
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

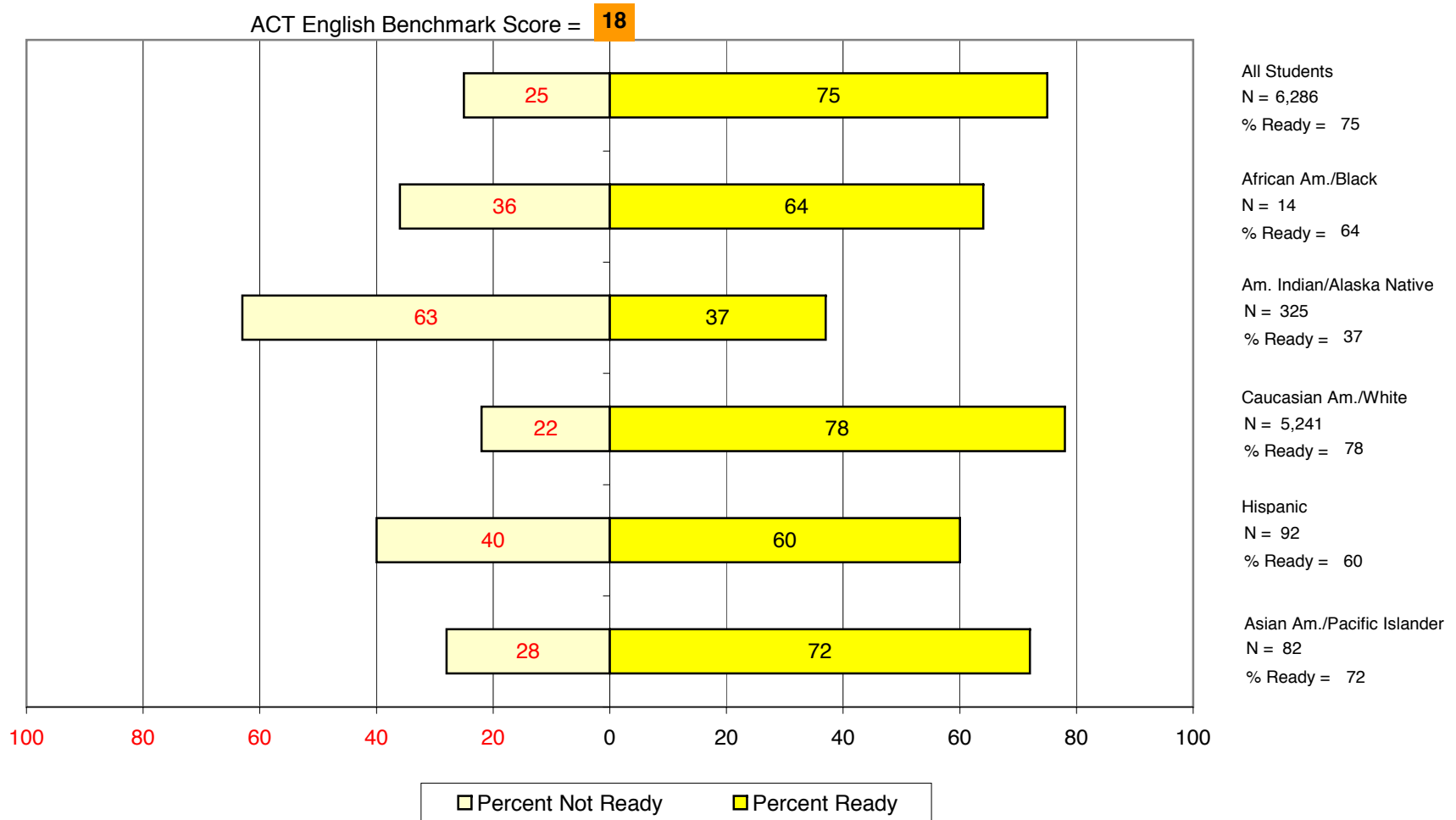


Figure 3.2. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

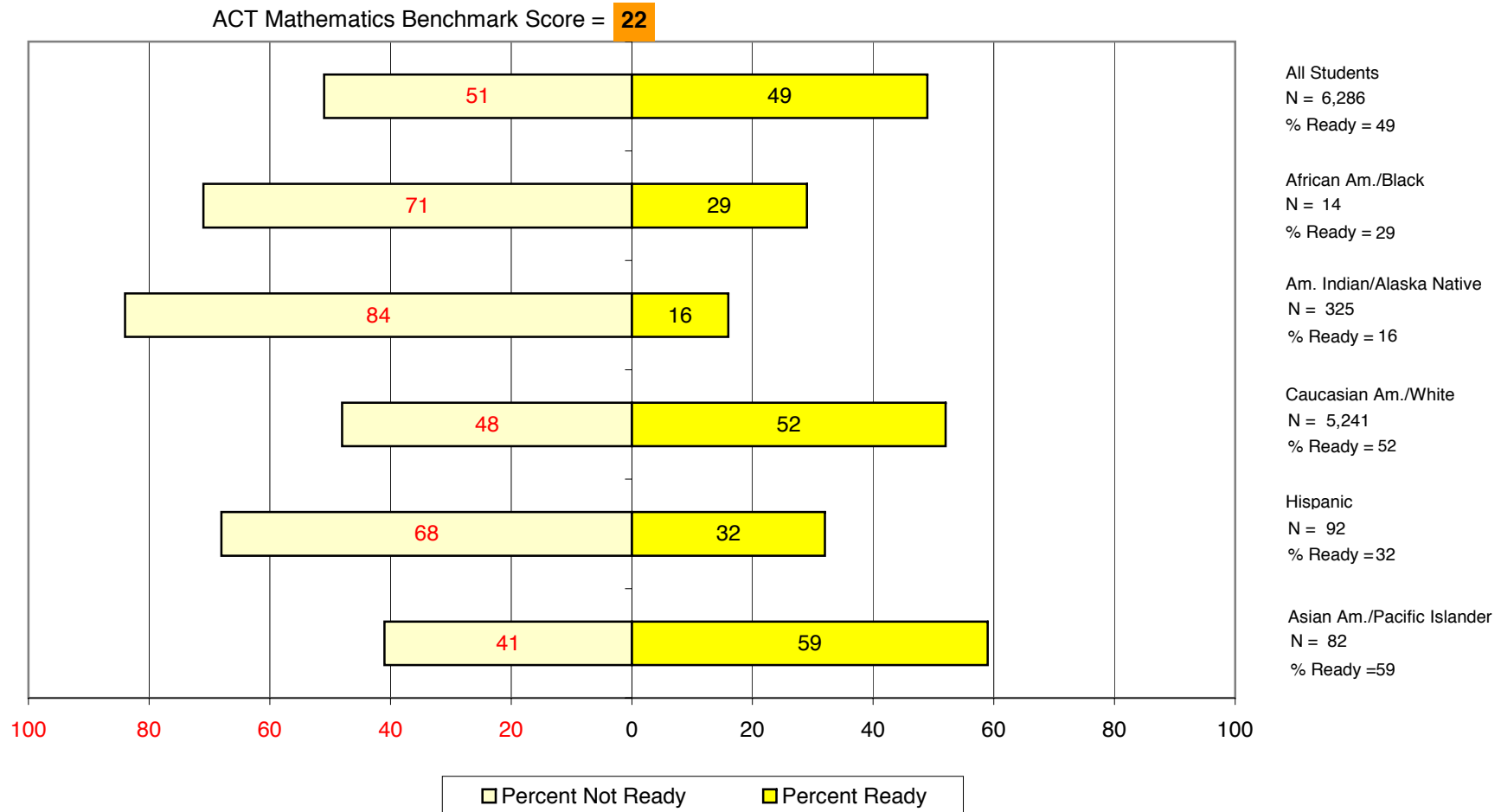


Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: READING

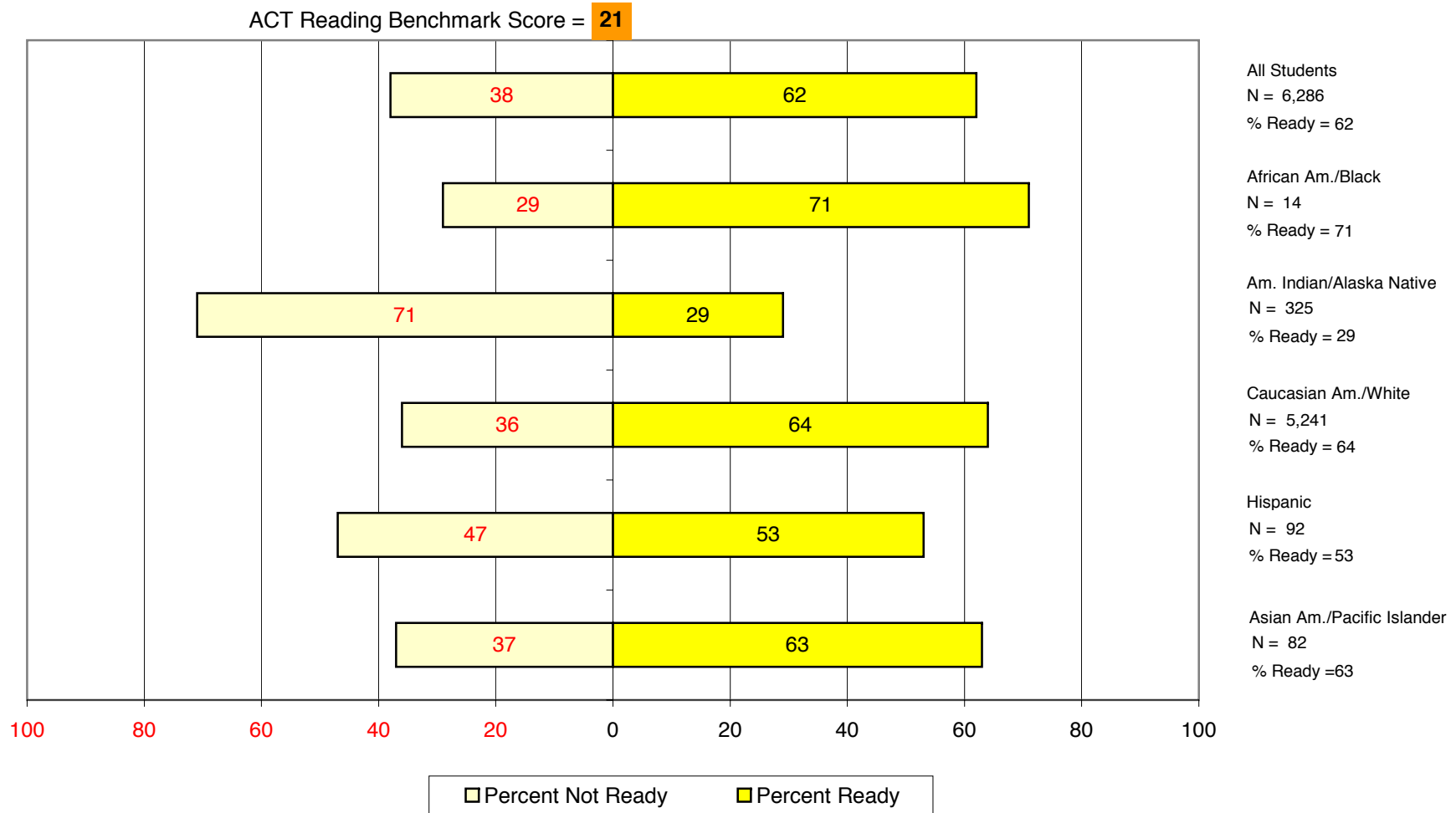


Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

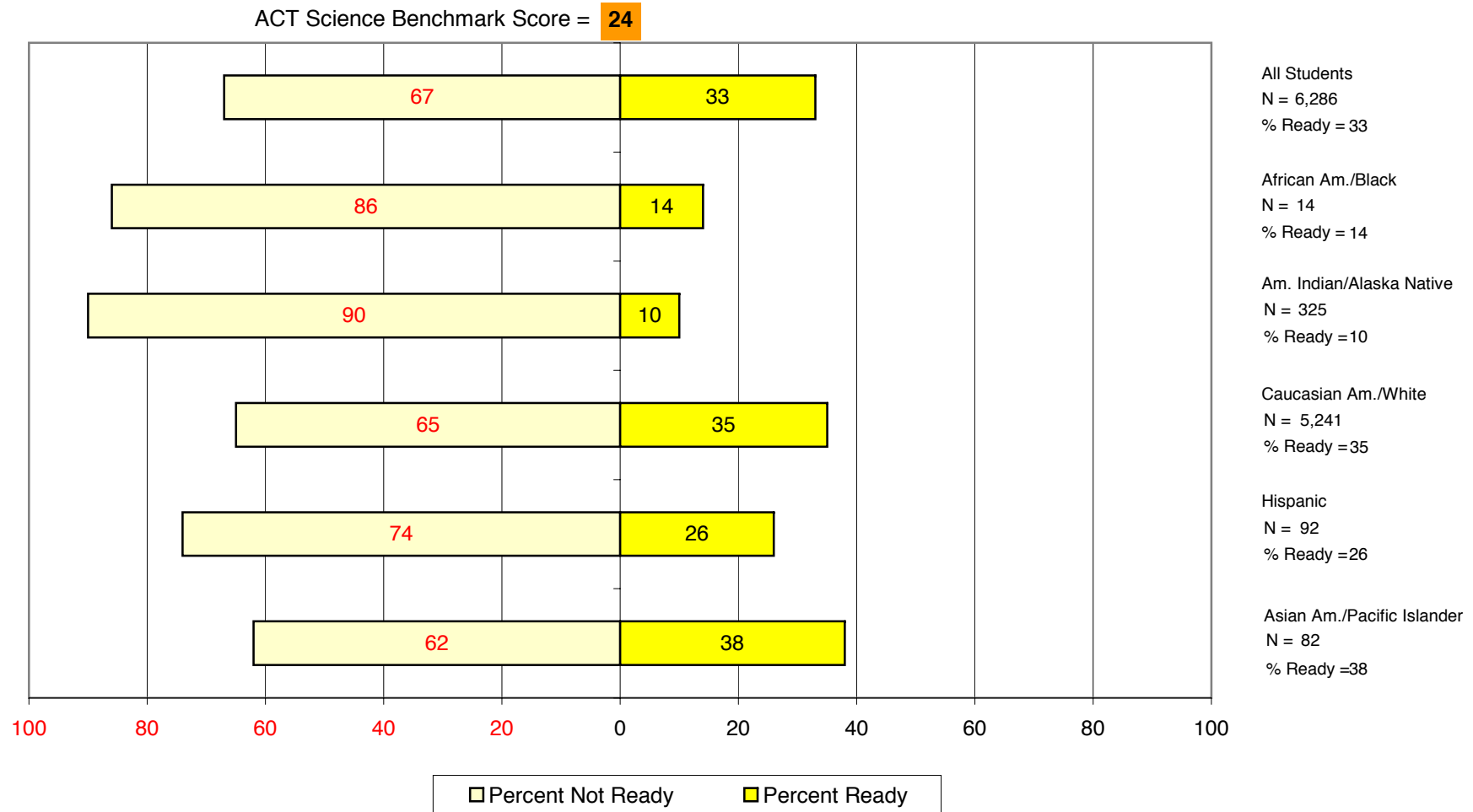


Figure 3.5. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR

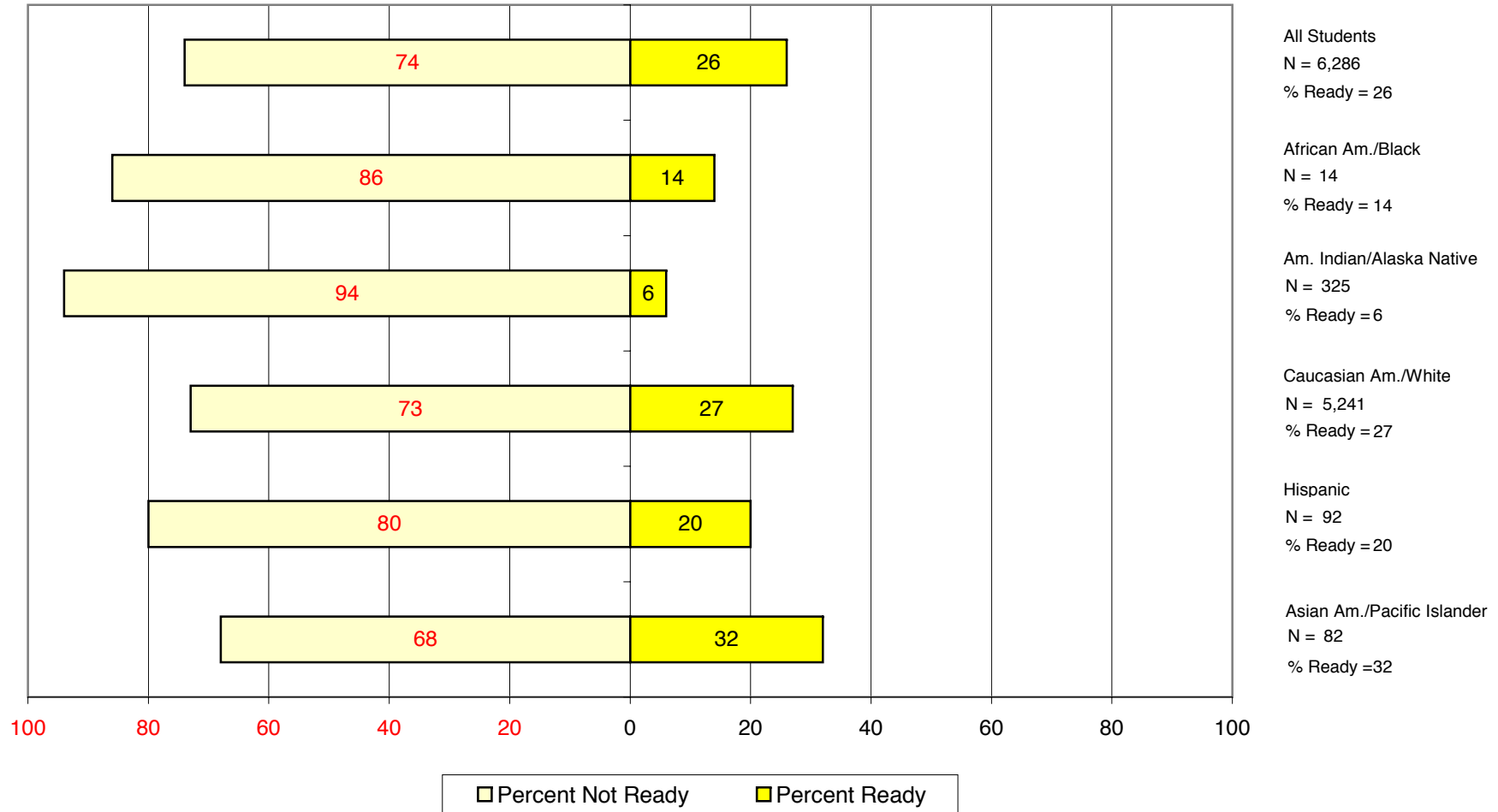


Table 3.1. Average ACT Scores and ACT Average Score Changes by Common Course Patterns

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	1,159	18	22.4	1.3	422	15	22.2	1.3	718	21	22.6	1.3
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	4,482	71	21.1	0.0	2,072	74	20.5	-0.4	2,365	69	21.6	0.3
Less than 4 years of English	383	6	21.1	-	165	6	20.9	-	204	6	21.3	-
No English course/grade information reported	262	4	19.1	-	126	5	19.1	-	122	4	18.7	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	425	7	25.9	7.5	217	8	26.4	7.5	204	6	25.3	7.5
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	522	8	23.2	4.8	207	7	24.2	5.3	311	9	22.4	4.6
Alg 1, Alg 2, Geom, & Trig	510	8	21.4	3.0	230	8	22.1	3.2	275	8	20.9	3.1
Alg 1, Alg 2, Geom, & Other Adv Math	875	14	21.8	3.4	352	13	22.3	3.4	515	15	21.4	3.6
Other comb of 4 or more years of Math	1,414	22	24.8	6.4	663	24	25.5	6.6	735	22	24.1	6.3
Alg 1, Alg 2, & Geom (Min. Core)	1,208	19	19.0	0.6	516	19	19.6	0.7	672	20	18.5	0.7
Other comb of 3 or 3.5 years of Math	299	5	21.7	3.3	151	5	22.5	3.6	143	4	20.9	3.1
Less than 3 years of Math	747	12	18.4	-	315	11	18.9	-	416	12	17.8	-
No Math course/grade information reported	286	5	19.7	-	134	5	20.4	-	138	4	18.8	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	590	9	22.7	0.5	309	11	22.3	0.2	276	8	23.1	0.8
Other comb of 4 or more years Social Science	1,486	24	23.3	1.1	620	22	22.9	0.8	845	25	23.6	1.3
US Hist, World Hist, & Am Gov (Min. Core)	1,642	26	22.6	0.4	796	29	22.4	0.3	829	24	22.7	0.4
Other comb of 3 or 3.5 years of Social Science	1,563	25	22.8	0.6	607	22	22.8	0.7	939	28	22.8	0.5
Less than 3 years of Social Science	726	12	22.2	-	319	11	22.1	-	389	11	22.3	-
No Soc Sci course/grade information reported	279	4	20.8	-	134	5	20.9	-	131	4	20.3	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	1,762	28	23.9	4.0	884	32	24.4	4.2	855	25	23.4	3.8
Bio, Chem, Phys	142	2	23.8	3.9	72	3	24.5	4.3	69	2	23.0	3.4
Gen Sci ² , Bio, Chem (Min. Core)	2,006	32	21.7	1.8	706	25	22.1	1.9	1,266	37	21.5	1.9
Other comb of 3 years of Natural Science	304	5	22.3	2.4	181	6	22.6	2.4	121	4	21.8	2.2
Less than 3 years of Natural Science	1,786	28	19.9	-	804	29	20.2	-	964	28	19.6	-
No Nat Sci course/grade information reported	286	5	20.2	-	138	5	20.8	-	134	4	19.5	-

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	1,159	18	22.4	82	266,394	19	21.8	76
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	4,482	71	21.1	75	949,721	67	20.5	68
Less than 4 years of English	383	6	21.1	74	112,496	8	18.8	56
No English course/grade information reported	262	4	19.1	56	93,330	7	20.2	64
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	425	7	25.9	82	91,985	6	24.8	74
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	522	8	23.2	67	113,879	8	22.3	57
Alg 1, Alg 2, Geom, & Trig	510	8	21.4	48	116,105	8	20.4	38
Alg 1, Alg 2, Geom, & Other Adv Math	875	14	21.8	52	204,909	14	20.4	38
Other comb of 4 or more years of Math	1,414	22	24.8	74	342,493	24	23.9	66
Alg 1, Alg 2, & Geom (Min. Core)	1,208	19	19.0	22	251,813	18	17.8	14
Other comb of 3 or 3.5 years of Math	299	5	21.7	49	70,951	5	20.8	41
Less than 3 years of Math	747	12	18.4	19	131,252	9	17.4	14
No Math course/grade information reported	286	5	19.7	32	98,554	7	21.1	44
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	590	9	22.7	63	42,546	3	22.7	61
Other comb of 4 or more years Social Science	1,486	24	23.3	66	604,055	42	21.9	56
US Hist, World Hist, & Am Gov (Min. Core)	1,642	26	22.6	60	86,500	6	20.8	48
Other comb of 3 or 3.5 years of Social Science	1,563	25	22.8	64	404,731	28	21.3	52
Less than 3 years of Social Science	726	12	22.2	57	185,561	13	20.4	45
No Soc Sci course/grade information reported	279	4	20.8	47	98,548	7	21.1	50
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	1,762	28	23.9	53	453,654	32	22.2	38
Bio, Chem, Phys	142	2	23.8	48	134,033	9	23.2	47
Gen Sci ¹ , Bio, Chem (Min. Core)	2,006	32	21.7	32	435,183	31	20.1	20
Other comb of 3 years of Natural Science	304	5	22.3	34	40,179	3	20.1	22
Less than 3 years of Natural Science	1,786	28	19.9	16	259,142	18	18.7	13
No Nat Sci course/grade information reported	286	5	20.2	23	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	158	3	20.4	29	6	18.1	123	2	21.0
Architecture & Environmental Design	127	2	22.3	9	2	20.1	115	2	22.6
Business & Management	501	8	21.5	36	7	19.2	444	9	21.8
Business & Office	41	1	19.9	7	1	18.9	32	1	20.3
Marketing & Distribution	20	0	21.4	1	0	17.0	17	0	21.5
Communications & Comm. Technologies	108	2	22.3	6	1	19.3	95	2	22.5
Community & Personal Services	123	2	20.0	15	3	16.7	98	2	20.7
Computer & Information Sciences	117	2	23.1	16	3	21.2	97	2	23.5
Cross-Disciplinary Studies	16	0	23.3	0	0	.	16	0	23.3
Education	264	4	21.2	3	1	18.7	249	5	21.2
Teacher Education	175	3	20.5	4	1	17.8	157	3	20.8
Engineering	321	5	24.0	19	4	16.7	285	6	24.5
Engineering-Related Technologies	205	3	23.4	18	4	20.3	177	3	23.7
Foreign Languages	41	1	24.1	1	0	19.0	37	1	24.4
Health Sciences & Allied Health Fields	1,062	17	22.0	78	16	19.5	957	19	22.3
Human, Family & Consumer Science	56	1	20.2	13	3	18.2	37	1	21.0
Letters	47	1	23.9	0	0	.	46	1	24.0
Mathematics	40	1	25.4	0	0	.	38	1	25.7
Philosophy, Religion & Theology	27	0	23.2	1	0	23.0	26	1	23.2
Sciences (Biological & Physical)	340	5	24.0	6	1	18.7	324	6	24.1
Social Sciences	357	6	22.8	4	1	21.5	336	7	22.8
Trade & Industrial	180	3	19.1	103	21	18.4	70	1	19.9
Visual & Performing Arts	394	6	22.0	38	8	19.3	334	7	22.4
Undecided	983	16	22.0	61	12	19.0	799	16	22.3
No Response	583	9	21.4	21	4	19.4	190	4	22.8

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	126	19.4	0	.	7	17.9	105	19.6	1	21.0	0	.	13	19.2
2-yr College Degree	363	18.7	2	21.5	19	17.8	305	18.8	4	16.0	1	24.0	32	18.8
Bachelors Degree	2,866	21.3	6	21.0	114	18.0	2,494	21.5	42	19.1	36	22.2	174	21.1
Graduate Study	848	23.9	3	21.0	25	18.2	726	24.2	14	22.7	10	22.9	70	23.8
Prof. Level Degree	1,385	23.9	1	21.0	61	19.6	1,169	24.2	23	23.9	23	24.1	108	24.1
Other	161	19.6	2	20.0	8	14.6	132	20.0	2	19.0	2	18.0	15	19.3
No Response	537	21.3	0	.	91	16.3	310	22.3	6	19.7	10	20.3	120	22.6

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
MONTANA STATE UNIVERSITY-BOZEMAN	Montana	2,456	1,012	1,444	0	3	21	35	26	13	1
UNIVERSITY OF MONTANA	Montana	2,379	1,011	1,368	1	5	24	35	25	10	1
MONTANA STATE UNIVERSITY-BILLINGS	Montana	1,069	379	690	1	9	31	38	18	4	0
CARROLL COLLEGE	Montana	623	158	465	1	1	18	35	30	13	1
MONTANA TECH OF THE UNIV OF MONTANA	Montana	612	205	407	1	4	24	34	26	10	1
UNIVERSITY OF MONTANA WESTERN	Montana	361	82	279	1	9	39	34	15	2	0
ROCKY MOUNTAIN COLLEGE	Montana	328	56	272	0	5	29	37	23	5	2
MONTANA STATE UNIVERSITY-NORTHERN	Montana	318	120	198	2	10	43	33	10	2	0
GONZAGA UNIVERSITY	Washington	235	39	196	0	1	8	29	34	25	3
UNIVERSITY OF WASHINGTON	Washington	198	34	164	1	2	7	31	33	23	4
UNIVERSITY OF GREAT FALLS	Montana	171	31	140	2	8	35	33	18	4	0
WASHINGTON STATE UNIVERSITY	Washington	153	24	129	0	0	12	31	32	24	1
MONTANA STATE UNIV C TECH-GREAT FALLS	Montana	152	32	120	2	8	35	38	13	4	0
UNIVERSITY OF MONTANA-HELENA C OF TECH	Montana	146	25	121	3	8	34	36	16	3	0
DAWSON COMMUNITY COLLEGE	Montana	123	44	79	1	15	34	35	11	3	0
DICKINSON STATE UNIVERSITY	North Dakota	119	22	97	2	9	29	39	19	3	0
NORTHWEST COLLEGE	Wyoming	119	43	76	1	8	37	39	14	0	1
MILES COMMUNITY COLLEGE	Montana	118	33	85	3	14	42	25	12	5	0
UNIVERSITY OF OREGON	Oregon	113	17	96	0	1	12	26	45	15	1
CONCORDIA COLLEGE-MOORHEAD	Minnesota	103	26	77	0	0	16	20	49	14	2
FLATHEAD VALLEY COMMUNITY COLLEGE	Montana	103	30	73	3	13	32	38	13	1	1
UNIVERSITY OF WYOMING	Wyoming	93	14	79	0	1	26	30	27	15	1
UNIVERSITY OF IDAHO	Idaho	92	20	72	0	2	13	46	28	9	2
BOISE STATE UNIVERSITY	Idaho	91	16	75	1	1	22	38	23	12	2
BRIGHAM YOUNG UNIVERSITY-IDAHO	Idaho	90	40	50	0	3	13	32	33	17	1
UNIVERSITY OF NORTH DAKOTA	North Dakota	88	30	58	0	2	16	44	31	7	0
UNIVERSITY OF MARY	North Dakota	86	23	63	0	3	16	47	28	6	0
COLORADO STATE UNIVERSITY	Colorado	80	12	68	0	3	6	35	34	20	3
BRIGHAM YOUNG UNIVERSITY	Utah	79	40	39	0	0	10	29	32	27	3
UNIV OF COLORADO-BOULDER	Colorado	75	16	59	0	0	8	19	31	39	4
All Other Institutions		4,506	1,112	3,394	0	4	18	29	27	19	3
Total		15,279	4,746	10,533	1	5	22	33	25	13	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	3,800	770,529	21.9	21.4	7.2	7.3	21.2	20.9
African Am./Black	7	86,049	21.0	16.6	6.7	6.5	20.1	16.6
Am. Indian/Alaska Native	134	5,148	16.4	18.9	6.2	6.7	16.1	18.5
Caucasian Am./White	3,195	464,177	22.2	22.5	7.3	7.4	21.4	21.8
Hispanic	64	71,060	19.9	18.3	6.8	7.1	19.3	18.5
Asian Am./Pacific Islander	57	37,359	20.8	23.1	7.4	7.9	20.5	22.6
Other/No Response	343	106,736	22.2	22.2	7.1	7.5	21.3	21.7
Males	1,591	327,613	21.4	20.9	6.9	7.0	20.5	20.2
Females	2,146	421,968	22.3	21.7	7.4	7.6	21.7	21.3
Missing	63	20,948	22.6	23.9	7.6	7.9	22.0	23.2

