

ACT High School Profile Report

The Graduating Class of 2008
North Dakota



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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

24% 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. 6,113 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. 62% 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, 14% were college ready. 26% of the cohort reported taking the minimum core (Algebra I, Algebra II, and Geometry). 28% of these students were college ready. In comparison, 66% 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 21% of the cohort took less than three years of natural science courses. 12% of these students were college ready. In comparison, 36% 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 38% 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.

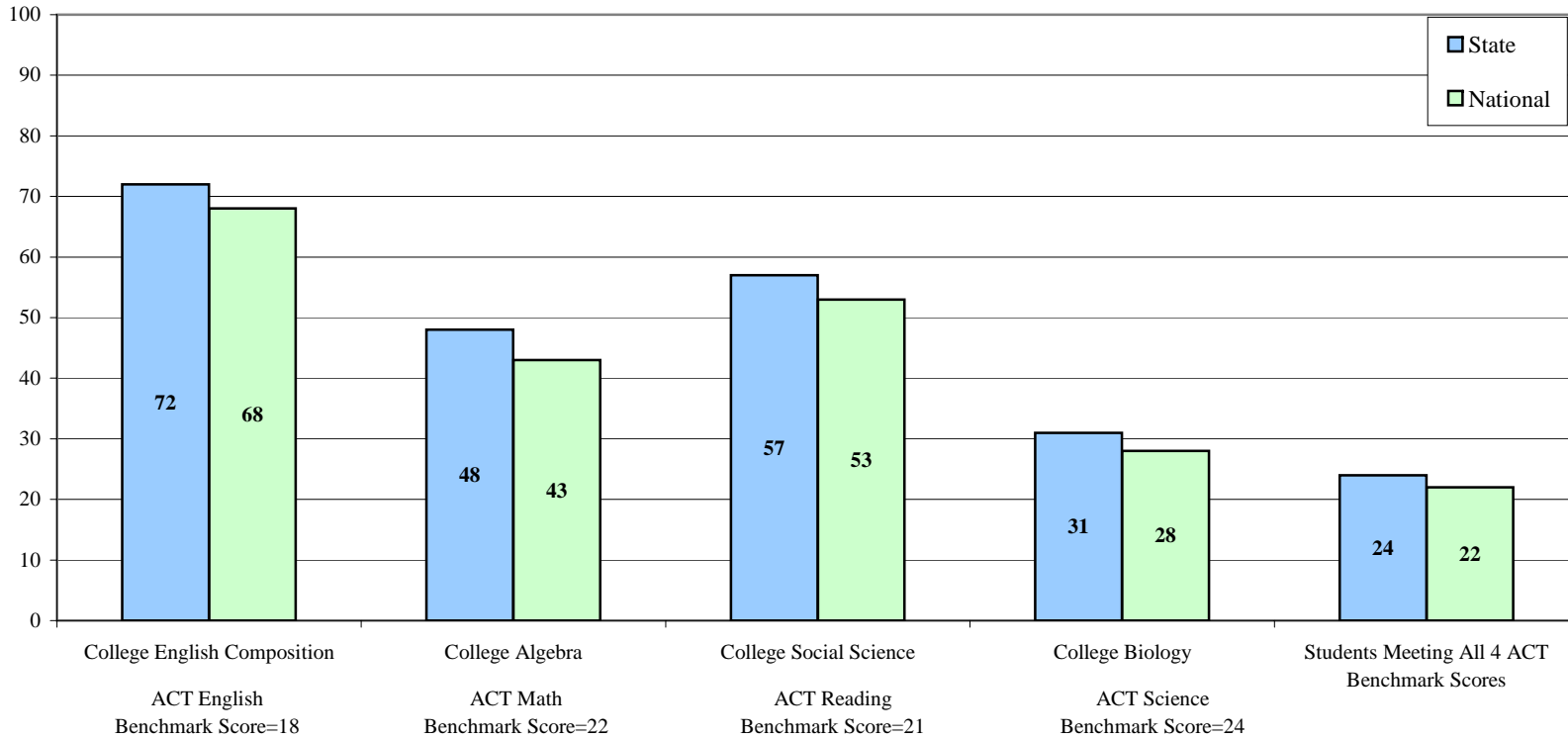
PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS. Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether among students with similar aspirations, academic performance is consistent across racial/ethnic groups.

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	6,730	1,171,460	68	68	45	40	53	52	30	26	22	21
2005	6,562	1,186,251	69	68	45	41	52	51	29	26	23	21
2006	6,335	1,206,455	70	69	47	42	55	53	30	27	23	21
2007	6,326	1,300,599	73	69	47	43	56	53	30	28	23	23
2008	6,113	1,421,941	72	68	48	43	57	53	31	28	24	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	6,730	1,171,460	20.2	20.4	21.3	20.7	21.5	21.3	21.4	20.9	21.2	20.9
2005	6,562	1,186,251	20.4	20.4	21.2	20.7	21.4	21.3	21.5	20.9	21.3	20.9
2006	6,335	1,206,455	20.5	20.6	21.4	20.8	21.6	21.4	21.5	20.9	21.4	21.1
2007	6,326	1,300,599	20.8	20.7	21.5	21.0	21.9	21.5	21.6	21.0	21.6	21.2
2008	6,113	1,421,941	20.7	20.6	21.6	21.0	21.8	21.4	21.5	20.8	21.6	21.1

Table 1.3. Five Year Trends—Average ACT Scores Nationwide

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

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

Grad Year	Number of Students Tested		Percent ¹		Average ACT Scores									
	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	4,023	2,418	60	36	21.6	17.8	22.9	18.8	22.7	19.5	22.6	19.6	22.6	19.1
2005	3,814	2,385	58	36	22.0	17.9	22.7	18.9	22.7	19.4	22.8	19.7	22.7	19.1
2006	3,562	2,335	56	37	21.9	18.3	22.8	19.3	22.9	19.7	22.7	19.9	22.7	19.4
2007	3,413	2,259	54	36	22.1	18.8	22.9	19.5	23.0	20.2	22.7	20.1	22.8	19.8
2008	3,796	1,970	62	32	22.0	18.5	22.8	19.5	22.9	20.0	22.5	19.8	22.7	19.6

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	6,730	100	21.2	6,562	100	21.3	6,335	100	21.4	6,326	100	21.6	6,113	100	21.6
African American/Black	24	0	17.6	33	1	17.6	33	1	19.6	32	1	18.4	51	1	18.0
American Indian/Alaska Native	240	4	16.9	251	4	17.5	224	4	17.4	242	4	17.1	220	4	17.0
Caucasian American/White	6,059	90	21.4	5,854	89	21.5	5,544	88	21.5	5,380	85	21.8	5,419	89	21.8
Hispanic	63	1	19.0	52	1	19.1	45	1	20.2	47	1	20.5	45	1	19.2
Asian American/Pacific Islander	55	1	21.5	51	1	21.5	55	1	22.8	43	1	21.5	40	1	24.0
Other/No Response	289	4	21.1	321	5	21.0	434	7	21.3	582	9	21.7	338	6	21.3

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	5	100	21	100	10	100	0	100	36
35	48	100	20	100	41	100	20	100	8	100	35
34	59	99	35	100	60	99	22	100	14	100	34
33	45	98	55	99	91	98	48	99	28	100	33
32	50	97	63	98	94	97	35	98	55	99	32
31	92	97	57	97	150	95	36	98	66	98	31
30	100	95	109	96	190	93	66	97	115	97	30
29	135	93	135	94	185	89	103	96	143	95	29
28	156	91	243	92	229	86	143	94	165	93	28
27	167	89	282	88	233	83	189	92	245	90	27
26	236	86	322	84	247	79	246	89	310	86	26
25	314	82	406	78	316	75	509	85	374	81	25
24	350	77	451	72	309	70	451	77	424	75	24
23	351	71	419	64	507	65	474	69	468	68	23
22	422	65	362	57	338	56	672	62	544	60	22
21	566	59	425	52	443	51	540	51	550	52	21
20	514	49	366	45	508	43	694	42	532	43	20
19	402	41	412	39	410	35	549	30	475	34	19
18	354	34	482	32	265	28	394	21	470	26	18
17	338	28	469	24	354	24	239	15	365	18	17
16	311	23	523	16	304	18	224	11	283	12	16
15	336	18	310	8	267	13	143	7	211	8	15
14	217	12	110	3	246	9	92	5	135	4	14
13	155	9	35	1	137	5	88	4	82	2	13
12	113	6	12	1	81	3	53	2	37	1	12
11	100	4	3	1	54	1	48	1	10	1	11
10	76	3	1	1	18	1	16	1	3	1	10
9	50	2	1	1	8	1	9	1	0	1	9
8	30	1	0	1	3	1	0	1	0	1	8
7	13	1	0	1	1	1	0	1	1	1	7
6	2	1	0	1	1	1	0	1	0	1	6
5	1	1	0	1	0	1	0	1	0	1	5
4	0	1	0	1	1	1	0	1	0	1	4
3	0	1	0	1	0	1	0	1	0	1	3
2	0	1	0	1	1	1	0	1	0	1	2
1	0	1	0	1	0	1	0	1	0	1	1
Avg (SD)	20.7 (5.5)		21.6 (4.7)		21.8 (5.5)		21.5 (4.3)		21.6 (4.4)		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	172	100	27	100	119	100	114	100	218	100	23	100	37	100	18
17	168	97	108	100	220	98	233	98	260	96	73	100	20	99	17
16	279	94	201	98	270	94	450	94	330	92	114	98	227	99	16
15	216	90	364	95	443	90	426	87	325	87	216	97	236	95	15
14	311	86	330	89	432	83	441	80	549	81	528	93	618	91	14
13	511	81	539	83	560	76	325	73	644	72	632	84	593	81	13
12	479	73	770	74	694	67	672	67	562	62	659	74	905	72	12
11	638	65	784	62	665	55	733	56	697	53	962	63	675	57	11
10	814	55	951	49	710	44	611	44	657	41	1,104	48	1,050	46	10
9	624	41	611	33	690	33	503	34	453	31	818	29	671	29	9
8	562	31	596	23	681	21	497	26	680	23	484	16	434	18	8
7	452	22	392	14	272	10	342	18	486	12	144	8	302	11	7
6	385	15	215	7	206	6	380	13	189	4	146	6	142	6	6
5	271	8	100	4	80	2	261	6	40	1	135	3	84	3	5
4	141	4	93	2	42	1	85	2	20	1	38	1	48	2	4
3	66	1	28	1	21	1	24	1	2	1	30	1	43	1	3
2	23	1	3	1	6	1	15	1	1	1	1	1	17	1	2
1	1	1	1	1	2	1	1	1	0	1	6	1	11	1	1
Avg (SD)	10.4 (3.5)		10.7 (2.9)		11.2 (3.1)		11.0 (3.5)		11.4 (3.2)		10.8 (2.6)		10.9 (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)	24	25	26	24	24
Q2 (50th Percentile)	21	21	21	21	21
Q1 (25th Percentile)	17	18	18	19	18

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	6,113	62	22.7	19.6
	African Am./Black	51	63	18.4	17.8
	Am. Indian/Alaska Native	220	50	18.2	15.9
	Caucasian Am./White	5,419	63	22.9	19.9
	Hispanic	45	56	20.9	16.9
	Asian Am./Pacific Islander	40	78	25.2	18.0
	Other/No Response	338	52	22.7	19.3
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	20.7	21.6	21.8	21.5	21.6
	African Am./Black	16.5	18.5	18.3	18.5	18.0
	Am. Indian/Alaska Native	15.3	17.1	17.3	17.7	17.0
	Caucasian Am./White	21.0	21.8	22.1	21.7	21.8
	Hispanic	18.3	19.2	19.2	19.6	19.2
	Asian Am./Pacific Islander	23.6	24.8	23.5	23.5	24.0
	Other/No Response	20.5	21.4	21.6	21.3	21.3
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	162	3	115	2	213	3	100	2
	28 to 32	533	9	607	10	848	14	383	6
	24 to 27	1,067	17	1,461	24	1,105	18	1,395	23
	20 to 23	1,853	30	1,572	26	1,796	29	2,380	39
	16 to 19	1,405	23	1,886	31	1,333	22	1,406	23
	13 to 15	708	12	455	7	650	11	323	5
	01 to 12	385	6	17	0	168	3	126	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	2,892	47	20.0	22.2	21.5	21.9	21.5
	Females	3,135	51	21.3	21.1	22.1	21.2	21.6
	Missing	86	1	20.6	21.0	21.7	21.3	21.3
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	67	54	55	34	26
	Females	76	44	58	27	22
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	3,796	80	22.0	59	22.8	65	22.9	38	22.5	31	22.7
	Non-Core	1,970	57	18.5	30	19.5	43	20.0	17	19.8	11	19.6
	Missing	347	59	19.1	36	20.2	42	20.5	23	20.4	18	20.2
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	5,431	72	20.7	5,034	54	22.3	5,321	58	22.0	4,556	36	22.2
	Non-Core	443	72	20.2	761	14	17.6	540	47	20.6	1,288	12	19.1
	Missing	239	69	20.6	318	37	20.2	252	50	21.8	269	29	21.4
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

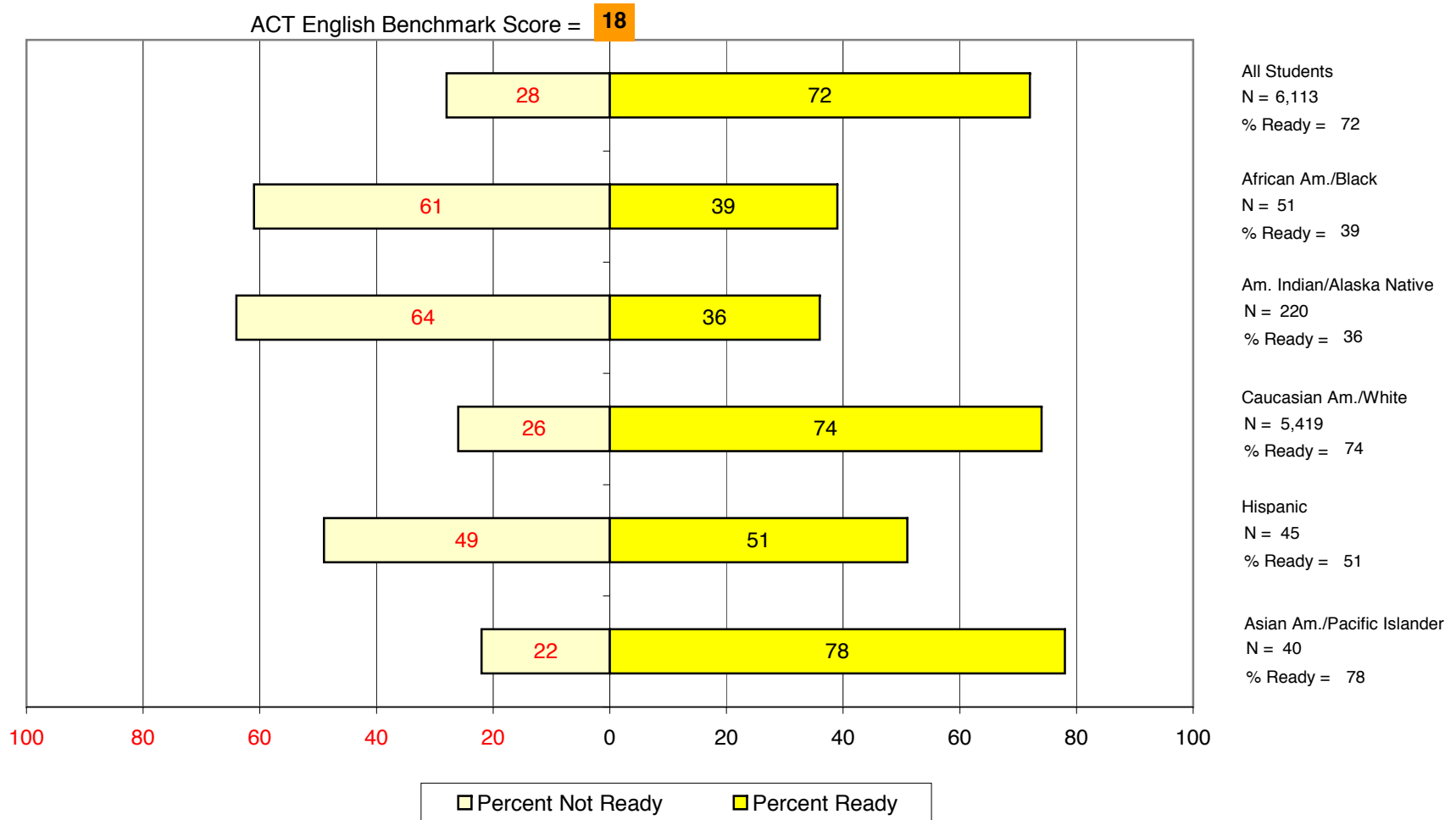


Figure 3.2. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

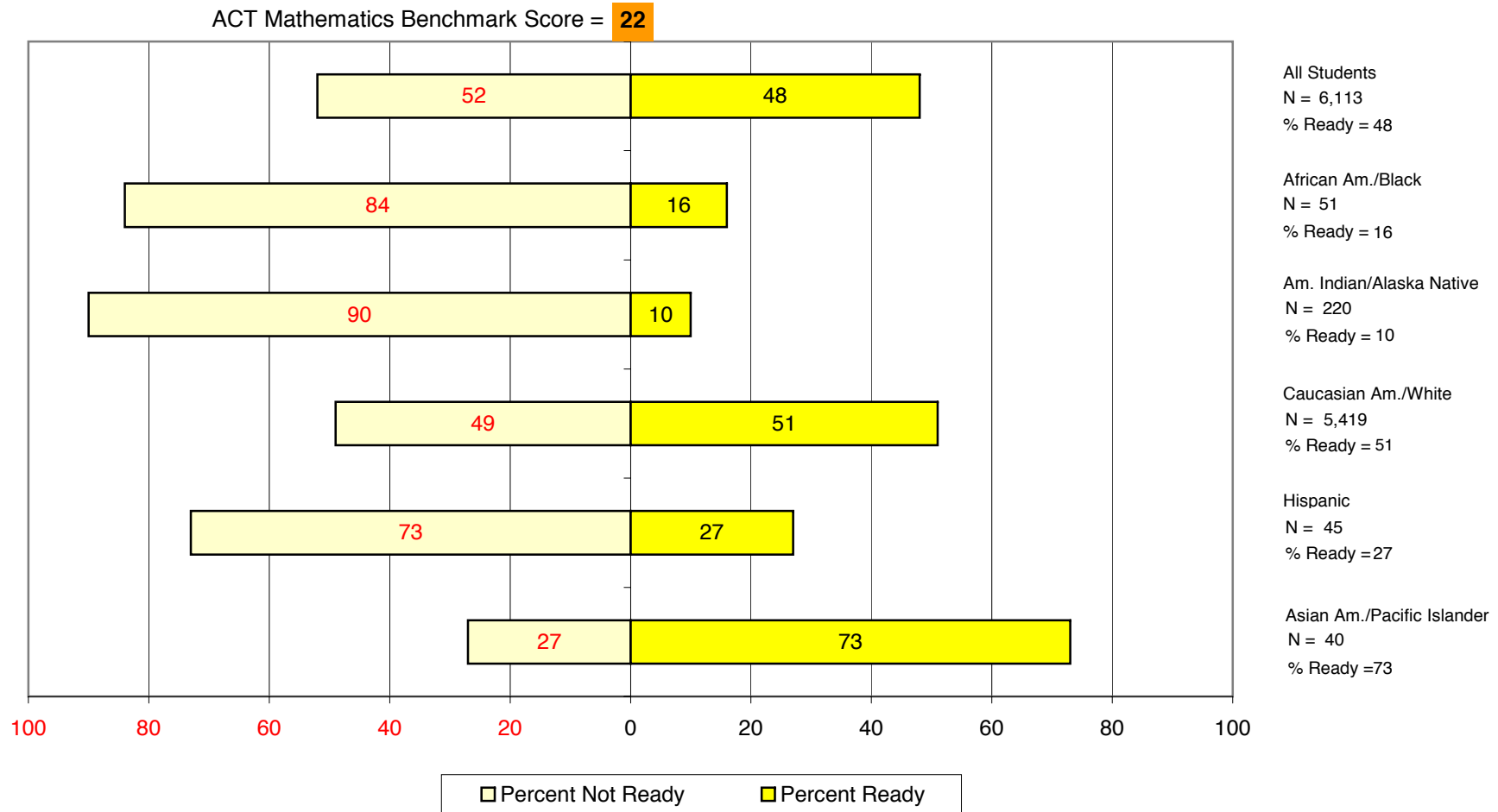


Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: READING

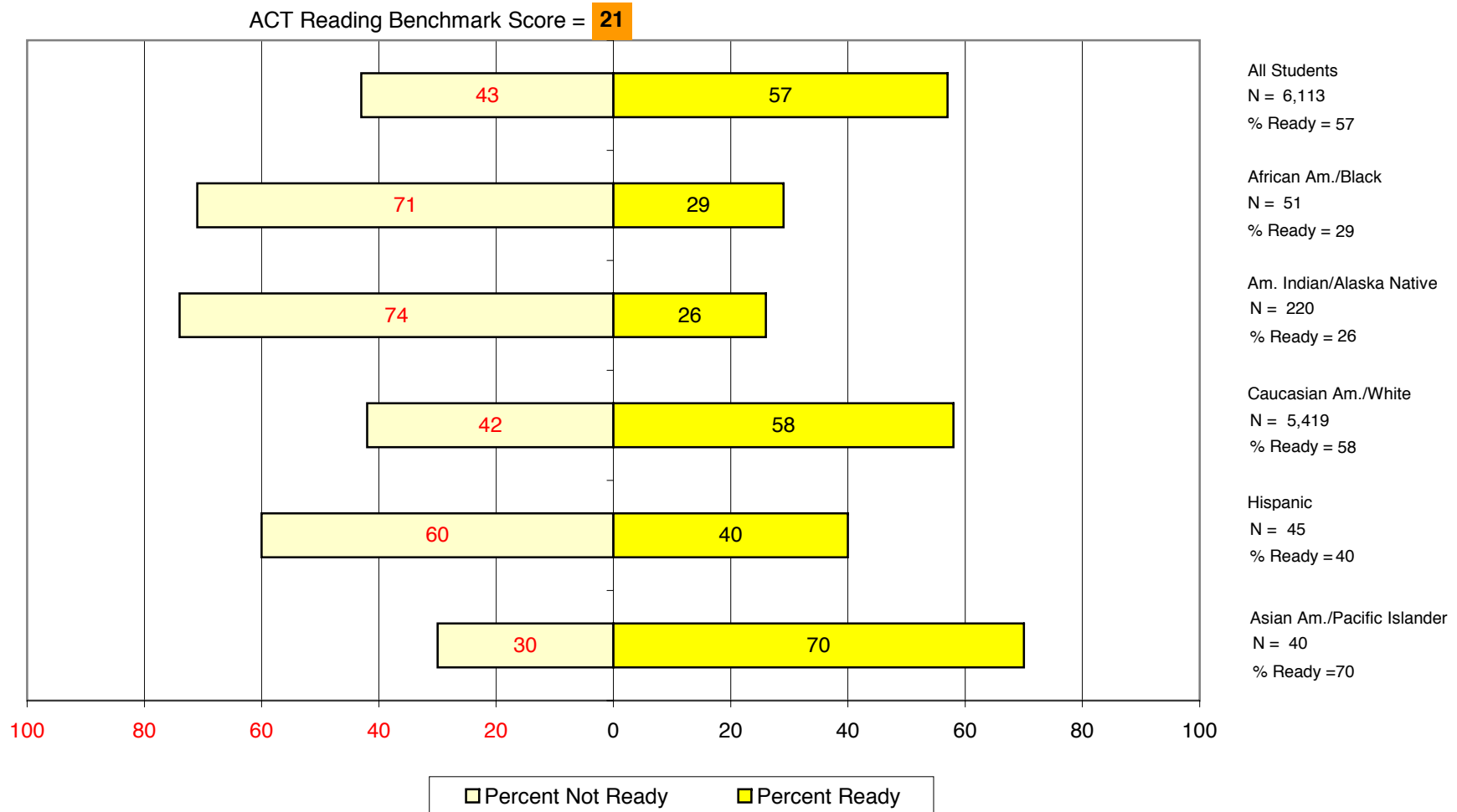


Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

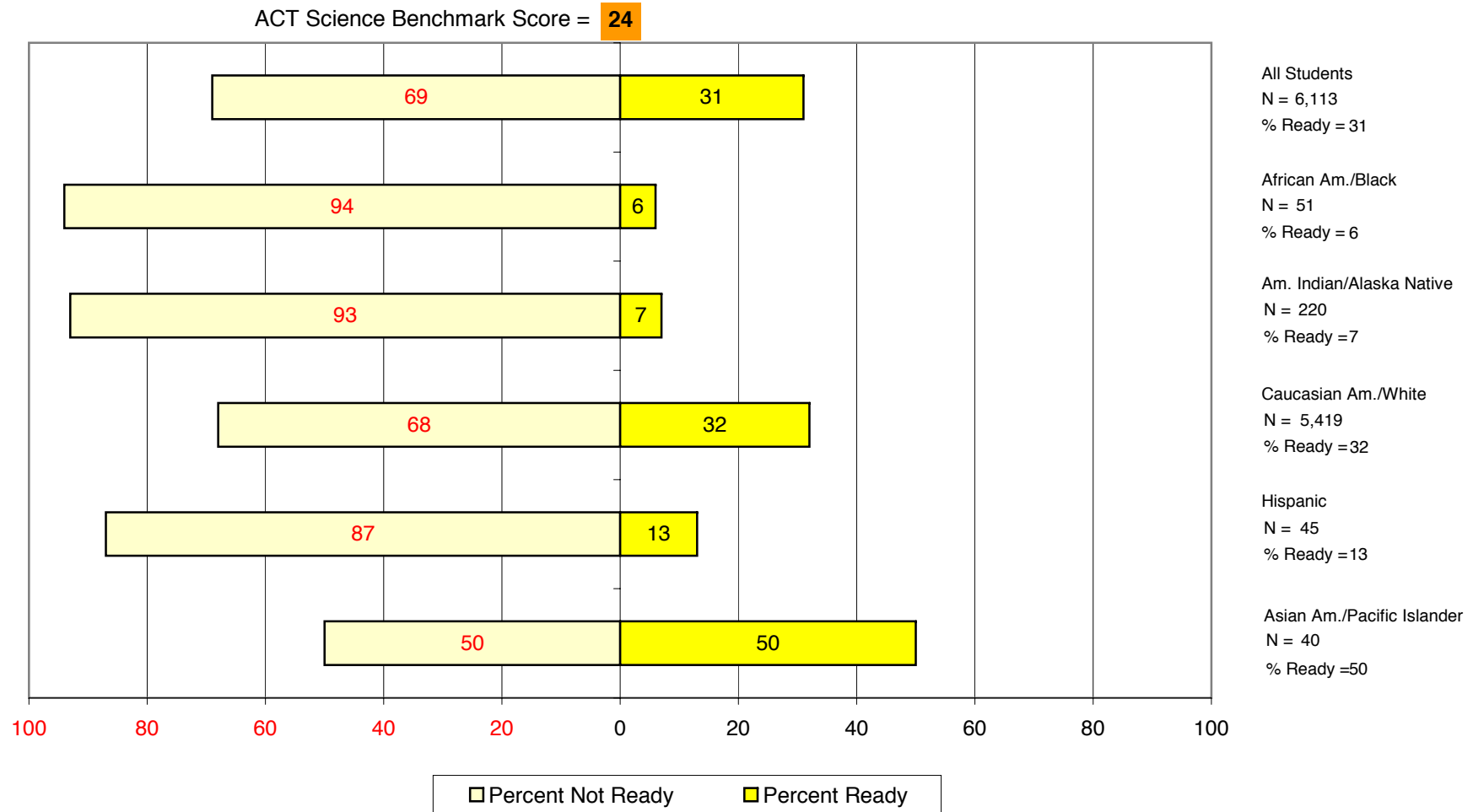


Figure 3.5. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR

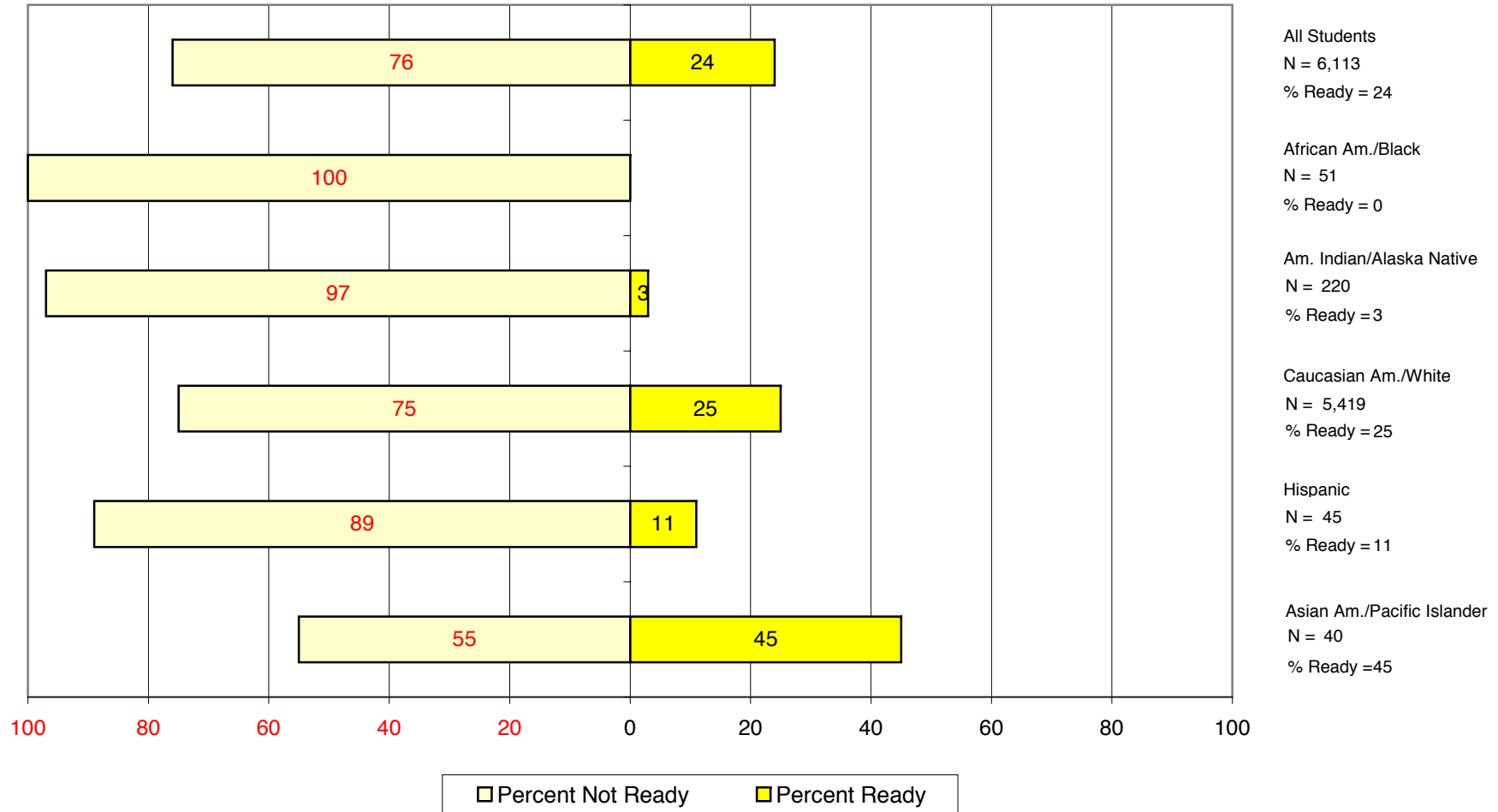


Table 3.1. Average ACT Scores and ACT Average Score Changes by Common Course Patterns

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	1,386	23	21.8	1.6	543	19	20.9	1.1	837	27	22.4	1.9
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	4,045	66	20.4	0.2	2,023	70	19.8	0.0	1,968	63	21.0	0.5
Less than 4 years of English	447	7	20.2	-	217	8	19.8	-	221	7	20.5	-
No English course/grade information reported	235	4	20.7	-	109	4	19.7	-	109	3	21.6	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	137	2	26.1	8.5	71	2	27.4	9.6	63	2	24.5	7.2
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	340	6	24.1	6.5	142	5	25.4	7.6	195	6	23.1	5.8
Alg 1, Alg 2, Geom, & Trig	273	4	22.2	4.6	125	4	22.8	5.0	141	4	21.8	4.5
Alg 1, Alg 2, Geom, & Other Adv Math	1,433	23	22.5	4.9	599	21	23.2	5.4	823	26	22.0	4.7
Other comb of 4 or more years of Math	964	16	25.2	7.6	508	18	26.0	8.2	445	14	24.4	7.1
Alg 1, Alg 2, & Geom (Min. Core)	1,573	26	19.6	2.0	701	24	20.3	2.5	855	27	19.1	1.8
Other comb of 3 or 3.5 years of Math	314	5	22.5	4.9	157	5	23.1	5.3	153	5	22.0	4.7
Less than 3 years of Math	826	14	17.6	-	472	16	17.8	-	343	11	17.3	-
No Math course/grade information reported	253	4	21.2	-	117	4	21.4	-	117	4	20.8	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	158	3	21.1	0.6	90	3	20.6	0.3	68	2	21.7	0.8
Other comb of 4 or more years Social Science	2,431	40	22.2	1.7	1,052	36	22.0	1.7	1,339	43	22.5	1.6
US Hist, World Hist, & Am Gov (Min. Core)	544	9	21.1	0.6	301	10	21.2	0.9	240	8	21.1	0.2
Other comb of 3 or 3.5 years of Social Science	2,188	36	21.9	1.4	1,039	36	21.6	1.3	1,132	36	22.2	1.3
Less than 3 years of Social Science	544	9	20.5	-	297	10	20.3	-	239	8	20.9	-
No Soc Sci course/grade information reported	248	4	21.9	-	113	4	21.0	-	117	4	22.7	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	1,807	30	23.5	4.3	954	33	24.0	4.8	833	27	23.0	3.9
Bio, Chem, Phys	26	0	24.3	5.1	20	1	25.6	6.4	5	0	20.8	1.7
Gen Sci ² , Bio, Chem (Min. Core)	2,472	40	21.3	2.1	929	32	21.8	2.6	1,513	48	21.0	1.9
Other comb of 3 years of Natural Science	251	4	21.6	2.4	160	6	21.8	2.6	90	3	21.1	2.0
Less than 3 years of Natural Science	1,309	21	19.2	-	714	25	19.2	-	578	18	19.1	-
No Nat Sci course/grade information reported	248	4	21.6	-	115	4	21.6	-	116	4	21.3	-

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	1,386	23	21.8	77	266,394	19	21.8	76
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	4,045	66	20.4	70	949,721	67	20.5	68
Less than 4 years of English	447	7	20.2	71	112,496	8	18.8	56
No English course/grade information reported	235	4	20.7	70	93,330	7	20.2	64
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	137	2	26.1	85	91,985	6	24.8	74
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	340	6	24.1	72	113,879	8	22.3	57
Alg 1, Alg 2, Geom, & Trig	273	4	22.2	56	116,105	8	20.4	38
Alg 1, Alg 2, Geom, & Other Adv Math	1,433	23	22.5	60	204,909	14	20.4	38
Other comb of 4 or more years of Math	964	16	25.2	78	342,493	24	23.9	66
Alg 1, Alg 2, & Geom (Min. Core)	1,573	26	19.6	28	251,813	18	17.8	14
Other comb of 3 or 3.5 years of Math	314	5	22.5	57	70,951	5	20.8	41
Less than 3 years of Math	826	14	17.6	14	131,252	9	17.4	14
No Math course/grade information reported	253	4	21.2	44	98,554	7	21.1	44
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	158	3	21.1	49	42,546	3	22.7	61
Other comb of 4 or more years Social Science	2,431	40	22.2	60	604,055	42	21.9	56
US Hist, World Hist, & Am Gov (Min. Core)	544	9	21.1	51	86,500	6	20.8	48
Other comb of 3 or 3.5 years of Social Science	2,188	36	21.9	57	404,731	28	21.3	52
Less than 3 years of Social Science	544	9	20.5	47	185,561	13	20.4	45
No Soc Sci course/grade information reported	248	4	21.9	50	98,548	7	21.1	50
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	1,807	30	23.5	50	453,654	32	22.2	38
Bio, Chem, Phys	26	0	24.3	46	134,033	9	23.2	47
Gen Sci ¹ , Bio, Chem (Min. Core)	2,472	40	21.3	26	435,183	31	20.1	20
Other comb of 3 years of Natural Science	251	4	21.6	31	40,179	3	20.1	22
Less than 3 years of Natural Science	1,309	21	19.2	12	259,142	18	18.7	13
No Nat Sci course/grade information reported	248	4	21.6	30	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	180	3	19.7	55	6	18.2	112	2	20.4
Architecture & Environmental Design	119	2	21.4	19	2	17.7	92	2	22.2
Business & Management	470	8	21.4	44	5	18.3	409	9	21.8
Business & Office	33	1	19.8	7	1	18.4	24	1	20.5
Marketing & Distribution	36	1	20.2	4	0	17.8	32	1	20.5
Communications & Comm. Technologies	107	2	22.6	8	1	18.5	97	2	22.9
Community & Personal Services	162	3	19.2	38	4	16.3	113	2	20.2
Computer & Information Sciences	159	3	22.3	23	3	19.7	130	3	22.7
Cross-Disciplinary Studies	4	0	18.5	2	0	18.0	2	0	19.0
Education	209	3	21.2	10	1	17.2	190	4	21.4
Teacher Education	155	3	21.3	3	0	18.0	141	3	21.5
Engineering	263	4	23.5	24	3	17.3	222	5	24.5
Engineering-Related Technologies	174	3	22.1	45	5	18.4	113	2	23.6
Foreign Languages	25	0	25.8	1	0	23.0	22	0	26.1
Health Sciences & Allied Health Fields	1,152	19	21.8	91	11	19.3	1,017	22	22.1
Human, Family & Consumer Science	58	1	19.0	9	1	16.2	43	1	19.5
Letters	22	0	25.4	1	0	23.0	18	0	26.1
Mathematics	24	0	25.0	2	0	19.0	21	0	25.2
Philosophy, Religion & Theology	29	0	22.6	1	0	17.0	26	1	22.9
Sciences (Biological & Physical)	238	4	24.4	3	0	19.0	231	5	24.5
Social Sciences	298	5	22.5	4	0	14.8	284	6	22.7
Trade & Industrial	276	5	18.2	209	25	17.5	55	1	20.7
Visual & Performing Arts	256	4	21.7	32	4	18.7	206	4	22.3
Undecided	1,121	18	21.4	168	20	18.0	849	18	22.1
No Response	543	9	21.4	44	5	17.4	209	4	21.9

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	200	17.6	0	.	6	14.7	188	17.7	1	15.0	0	.	5	15.4
2-yr College Degree	647	18.1	5	15.8	26	14.5	577	18.4	5	16.6	1	14.0	33	17.1
Bachelors Degree	2,670	21.4	19	17.8	83	16.6	2,421	21.6	22	18.5	10	24.0	115	20.9
Graduate Study	666	23.5	4	19.0	16	18.9	601	23.7	4	21.5	4	25.5	37	23.2
Prof. Level Degree	1,322	23.5	17	18.5	63	18.6	1,137	23.8	10	22.2	22	24.3	73	23.4
Other	175	19.9	2	18.5	13	17.9	141	20.5	2	15.5	2	17.0	15	17.0
No Response	433	21.5	4	18.5	13	14.4	354	21.6	1	21.0	1	33.0	60	22.4

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
NORTH DAKOTA STATE UNIVERSITY	North Dakota	2,842	1,072	1,770	0	3	21	37	27	10	1
UNIVERSITY OF NORTH DAKOTA	North Dakota	2,524	843	1,681	0	4	21	37	27	10	1
BISMARCK STATE COLLEGE	North Dakota	1,210	586	624	1	11	36	34	15	3	0
NORTH DAKOTA STATE COLLEGE OF SCIENCE	North Dakota	878	309	569	2	14	39	32	11	2	0
MINOT STATE UNIVERSITY	North Dakota	792	278	514	1	9	28	37	19	6	0
MINNESOTA STATE UNIVERSITY MOORHEAD	Minnesota	785	203	582	0	3	24	39	26	8	0
UNIVERSITY OF MARY	North Dakota	753	165	588	0	5	25	36	26	8	0
UNIVERSITY OF MINNESOTA-TWIN CITIES	Minnesota	654	177	477	0	1	7	30	37	23	2
DICKINSON STATE UNIVERSITY	North Dakota	424	116	308	1	9	35	36	16	3	0
CONCORDIA COLLEGE-MOORHEAD	Minnesota	378	88	290	0	2	12	33	34	18	1
JAMESTOWN COLLEGE	North Dakota	337	80	257	0	4	25	35	29	6	0
VALLEY CITY STATE UNIVERSITY	North Dakota	317	57	260	1	5	39	37	14	3	0
MAYVILLE STATE UNIVERSITY	North Dakota	209	39	170	0	5	35	35	21	3	0
LAKE REGION STATE COLLEGE	North Dakota	203	78	125	3	24	35	27	9	1	0
MINN ST COMM & TECH COLL-MOORHEAD	Minnesota	162	53	109	1	15	40	36	7	0	0
WILLISTON STATE COLLEGE	North Dakota	160	51	109	3	13	38	36	10	1	0
MINOT STATE UNIVERSITY-BOTTINEAU	North Dakota	157	36	121	3	23	34	29	9	1	1
NORTHLAND COMM & TECH COLL-E GRAND FRKS	Minnesota	155	39	116	1	16	42	29	10	1	0
UNIVERSITY OF MINNESOTA-DULUTH	Minnesota	148	35	113	0	1	14	36	36	14	0
MEDCENTER ONE COLLEGE OF NURSING	North Dakota	98	6	92	1	17	34	37	10	1	0
MONTANA STATE UNIVERSITY-BOZEMAN	Montana	96	13	83	0	1	9	33	43	13	1
SAINT CLOUD STATE UNIVERSITY	Minnesota	84	22	62	0	2	13	45	24	15	0
UNIV OF MINNESOTA-CROOKSTON	Minnesota	79	12	67	0	3	27	42	19	10	0
NCAA ELIGIBILITY CENTER	Indiana	76	23	53	0	3	11	39	33	13	1
BEMIDJI STATE UNIVERSITY	Minnesota	72	10	62	0	1	33	43	17	6	0
SOUTH DAKOTA STATE UNIVERSITY	South Dakota	67	11	56	0	4	15	37	33	10	0
SOUTH DAKOTA SCH OF MINES/TECH	South Dakota	62	18	44	2	0	15	29	34	19	2
TURTLE MOUNTAIN COMMUNITY COLLEGE	North Dakota	61	33	28	5	43	33	18	2	0	0
NORTHERN STATE UNIVERSITY	South Dakota	57	17	40	0	11	33	30	18	9	0
UNIVERSITY OF SAINT THOMAS-MN	Minnesota	48	5	43	0	0	6	29	42	23	0
All Other Institutions		2,819	606	2,213	1	5	19	28	26	18	4
Total		16,707	5,081	11,626	1	6	24	34	24	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
All Students	2,121	770,529	22.6	21.4	6.8	7.3	21.3	20.9
African Am./Black	16	86,049	18.3	16.6	6.4	6.5	17.7	16.6
Am. Indian/Alaska Native	53	5,148	16.1	18.9	5.8	6.7	15.6	18.5
Caucasian Am./White	1,896	464,177	22.8	22.5	6.8	7.4	21.5	21.8
Hispanic	14	71,060	20.6	18.3	6.4	7.1	19.4	18.5
Asian Am./Pacific Islander	21	37,359	24.7	23.1	7.8	7.9	23.9	22.6
Other/No Response	121	106,736	22.4	22.2	6.7	7.5	21.1	21.7
Males	885	327,613	22.3	20.9	6.5	7.0	20.9	20.2
Females	1,205	421,968	22.8	21.7	7.0	7.6	21.6	21.3
Missing	31	20,948	21.8	23.9	6.5	7.9	20.5	23.2

