

ACT Profile Report - State

Graduating Class 2009
Virginia



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This report provides information about the performance of your 2009 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 2009 and tested under standard time conditions.

This report focuses on:

Performance - student test performance in the context of college readiness

Access - number of your graduates exposed to college entrance testing and the percent of race/ethnicity participation

Course Selection - percent of students pursuing a core curriculum

Course Rigor - impact of rigorous coursework on achievement

College Readiness - percent of students meeting ACT College Readiness Benchmark Scores in each content area

Awareness - extent to which student aspirations match performance

Articulation - colleges and universities to which your students send test results

Each year, test data for a school, district, and the state represents a different cohort of students. ACT encourages educators to focus on trends (3, 5, 10 years), not year-to-year changes. Such changes can represent normal – even expected – fluctuations. On the other hand, trend lines offer more insight into what is happening in a school, district, or the state.

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

27% of your students met all four ACT College Readiness Benchmark Scores (Table 1.1). To improve students' scores and increase the percentage of students identified as college ready, ACT suggests:

PROVIDING ACCESS FOR ALL STUDENTS TO TAKE THE ACT: 17,902 of your students are included in this report (the 'cohort'). Increasing access insures that more students have the opportunity to consider college and allows the reader to use this report to evaluate how well courses and instructional programs are preparing students for college and work.

MAKING CORE CURRICULUM A PRIORITY: Emphasize the need for all students to develop college and work ready skills, regardless of postsecondary aspirations. 87% 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 3% of the cohort took less than three years of math courses. Of these students, 4% were college ready. 10% of the cohort reported taking the minimum math core (Algebra I, Algebra II, and Geometry). 9% of these students were college ready. In comparison, 56% of the students who advanced beyond minimum math 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 6% of the cohort took less than three years of natural science courses. 8% of these students were college ready. In comparison, 35% 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 40% 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.

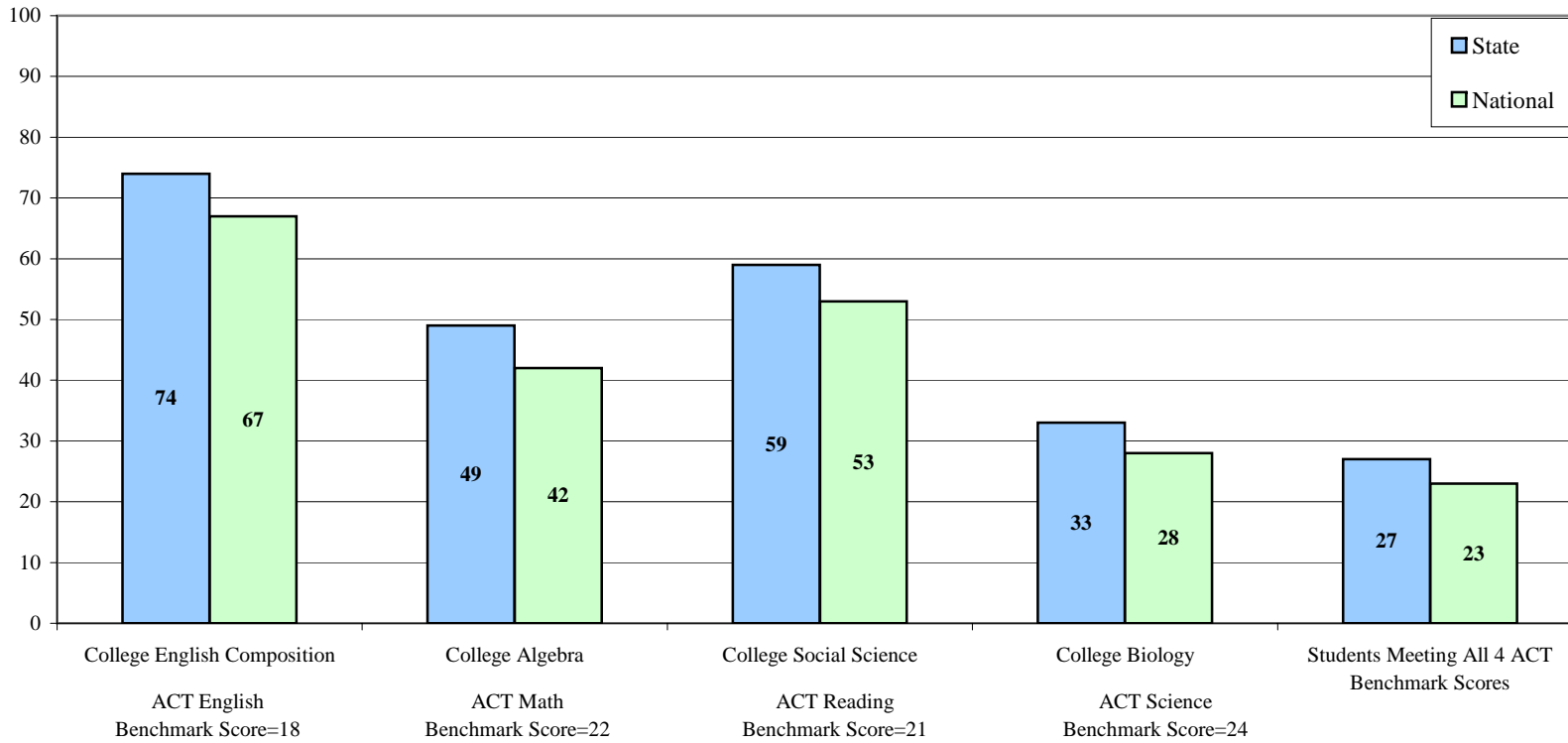
For more information on interpreting data in this report, or to learn how ACT can help your students improve their readiness for college and the workplace, contact your regional office at 404-231-1952.

Section I

Executive Summary

Total Students in Report: 17,902

Figure 1.1. Percent of Your Students Ready for College-Level Coursework



A benchmark score is the minimum score needed on an ACT subject-area test to indicate a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in the corresponding credit-bearing college course.

Total Students in Report: 17,902

Table 1.1. Five Year Trends—Percent of Students Meeting College Readiness Benchmarks

Year	Number of Students Tested		Percent Meeting Benchmarks									
			English		Mathematics		Reading		Science		Meeting All Four	
	State	National	State	National	State	National	State	National	State	National	State	National
2005	10,806	1,186,251	69	68	40	41	51	51	24	26	19	21
2006	11,519	1,206,455	70	69	44	42	53	53	26	27	21	21
2007	14,653	1,300,599	72	69	45	43	54	53	29	28	23	23
2008	16,896	1,421,941	74	68	50	43	58	53	32	28	26	22
2009	17,902	1,480,469	74	67	49	42	59	53	33	28	27	23

Table 1.2. Five Year Trends—Average ACT Scores

Year	Number of Students Tested		Average ACT Scores									
			English		Mathematics		Reading		Science		Composite	
	State	National	State	National	State	National	State	National	State	National	State	National
2005	10,806	1,186,251	20.5	20.4	20.6	20.7	21.2	21.3	20.6	20.9	20.8	20.9
2006	11,519	1,206,455	20.6	20.6	21.0	20.8	21.4	21.4	20.7	20.9	21.1	21.1
2007	14,653	1,300,599	21.0	20.7	21.2	21.0	21.7	21.5	21.1	21.0	21.4	21.2
2008	16,896	1,421,941	21.5	20.6	21.8	21.0	22.2	21.4	21.3	20.8	21.8	21.1
2009	17,902	1,480,469	21.7	20.6	21.8	21.0	22.3	21.4	21.4	20.9	21.9	21.1

Table 1.3. Five Year Trends—Average ACT Scores Nationwide

Year	Number of Students Tested	Average ACT Scores				
		English	Mathematics	Reading	Science	Composite
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
2009	1,480,469	20.6	21.0	21.4	20.9	21.1

Total Students in Report: 17,902

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

Year	Number of Students Tested		Percent ²		Average ACT Scores									
	Core or More ¹	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
2005	6,660	2,246	62	21	21.2	18.7	21.1	19.1	21.8	19.6	21.2	19.3	21.5	19.3
2006	6,636	2,553	58	22	21.4	19.0	21.6	19.7	22.1	20.1	21.3	19.6	21.7	19.7
2007	8,592	3,347	59	23	21.7	19.4	21.7	19.9	22.3	20.5	21.6	19.9	21.9	20.1
2008	13,020	2,472	77	15	22.0	19.0	22.2	19.9	22.6	20.2	21.7	19.5	22.2	19.8
2009	15,576	1,856	87	10	22.2	17.7	22.2	18.6	22.8	18.8	21.9	18.3	22.4	18.5

¹"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

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

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

	2005			2006			2007			2008			2009		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
All Students	10,806	100	20.8	11,519	100	21.1	14,653	100	21.4	16,896	100	21.8	17,902	100	21.9
African American/Black	2,548	24	17.3	2,560	22	17.3	2,898	20	17.4	3,308	20	17.5	3,607	20	17.6
American Indian/Alaska Native	40	0	20.2	36	0	21.5	40	0	21.4	62	0	21.6	60	0	21.6
Caucasian American/White	6,117	57	22.1	6,240	54	22.3	7,700	53	22.5	9,687	57	22.9	10,770	60	23.1
Hispanic	331	3	20.4	329	3	20.3	421	3	20.4	617	4	21.0	722	4	21.0
Asian American/Pacific Islander	439	4	21.3	419	4	22.5	604	4	22.8	827	5	23.6	953	5	23.6
Other/No Response	1,331	12	21.7	1,935	17	21.7	2,990	20	22.1	2,395	14	23.0	1,790	10	22.8

Section II

Academic Achievement

Total Students in Report: 17,902

Table 2.1. ACT Score Distributions, Cumulative Percentages (CP¹), and Score Averages

ACT Score	English		Mathematics		Reading		Science		Composite		ACT Score
	N	CP	N	CP	N	CP	N	CP	N	CP	
36	64	100	56	100	194	100	38	100	3	100	36
35	203	100	112	100	90	99	85	100	40	100	35
34	306	99	175	99	380	98	100	99	93	100	34
33	265	97	266	98	546	96	110	99	151	99	33
32	309	95	227	97	355	93	103	98	241	98	32
31	353	94	265	95	591	91	197	98	339	97	31
30	521	92	232	94	754	88	300	96	476	95	30
29	487	89	544	93	622	84	359	95	588	92	29
28	647	86	690	90	697	80	454	93	722	89	28
27	629	82	854	86	628	76	573	90	895	85	27
26	898	79	1,118	81	679	73	949	87	964	80	26
25	1,085	74	1,161	75	714	69	1,579	82	1,093	75	25
24	1,063	68	1,196	68	994	65	1,067	73	1,213	69	24
23	1,057	62	1,071	61	961	60	1,502	67	1,269	62	23
22	1,243	56	847	55	1,047	54	1,351	59	1,259	55	22
21	1,283	49	1,062	51	1,353	48	1,464	51	1,277	48	21
20	1,171	42	934	45	1,000	41	1,850	43	1,223	41	20
19	945	35	1,000	40	1,122	35	1,390	33	1,191	34	19
18	768	30	1,210	34	676	29	1,125	25	1,145	27	18
17	768	26	1,523	27	889	25	659	18	935	21	17
16	796	21	1,671	19	880	20	681	15	827	16	16
15	860	17	1,010	9	672	15	462	11	701	11	15
14	419	12	438	4	704	11	394	8	562	7	14
13	415	10	147	1	504	8	376	6	326	4	13
12	353	8	47	1	361	5	257	4	196	2	12
11	333	6	27	1	258	3	196	3	93	1	11
10	257	4	7	1	112	1	105	2	48	1	10
9	209	2	4	1	50	1	103	1	17	1	9
8	98	1	1	1	29	1	27	1	12	1	8
7	59	1	3	1	17	1	14	1	3	1	7
6	21	1	2	1	7	1	17	1	0	1	6
5	12	1	0	1	10	1	5	1	0	1	5
4	5	1	2	1	4	1	1	1	0	1	4
3	0	1	0	1	1	1	8	1	0	1	3
2	0	1	0	1	1	1	0	1	0	1	2
1	0	1	0	1	0	1	1	1	0	1	1
Avg (SD)	21.7 (6.1)		21.8 (5.2)		22.3 (6.3)		21.4 (4.9)		21.9 (5.1)		Avg (SD)

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

Note: Shaded portions of columns identify the students who met/exceeded the ACT College Readiness Benchmark Scores.

Total Students in Report: 17,902

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

ACT Scale Score	English				Reading				Mathematics						ACT Scale Score
	Usage/ Mechanics		Rhetorical Skills		Social Studies		Arts/ Literature		Pre/Elementary Algebra		Algebra/ Coordinate Geometry		Plane Geometry/ Trigonometry		
	N	CP	N	CP	N	CP	N	CP	N	CP	N	CP	N	CP	
18	795	100	252	100	648	100	1,088	100	776	100	206	100	193	100	18
17	767	96	162	99	919	96	771	94	1,187	96	192	99	60	99	17
16	1,032	91	1,185	98	1,010	91	1,836	90	964	89	662	98	610	99	16
15	1,194	86	1,292	91	1,448	86	1,680	79	1,302	84	670	94	1,013	95	15
14	1,029	79	1,461	84	1,043	78	1,627	70	1,461	76	2,078	90	1,491	90	14
13	1,377	73	1,746	76	1,296	72	888	61	1,381	68	1,475	79	2,167	81	13
12	1,558	65	2,378	66	1,693	64	1,452	56	1,921	61	2,451	70	1,479	69	12
11	1,659	57	1,866	53	1,324	55	1,770	48	1,461	50	1,902	57	2,238	61	11
10	1,952	47	2,101	42	1,812	48	1,320	38	1,780	42	3,318	46	2,400	48	10
9	1,681	37	1,742	30	1,981	37	1,097	31	1,278	32	2,070	28	1,951	35	9
8	1,266	27	1,291	21	1,726	26	1,445	24	1,990	25	1,306	16	1,771	24	8
7	1,209	20	932	14	1,378	17	940	16	1,553	13	714	9	762	14	7
6	952	13	479	8	808	9	801	11	572	5	202	5	700	10	6
5	623	8	473	6	394	5	691	7	148	2	356	4	381	6	5
4	471	5	321	3	125	2	312	3	81	1	134	2	321	4	4
3	242	2	179	1	157	2	125	1	37	1	102	1	226	2	3
2	81	1	39	1	91	1	52	1	8	1	31	1	76	1	2
1	14	1	3	1	49	1	7	1	2	1	33	1	63	1	1
Avg (SD)	10.9 (3.8)		11.1 (3.2)		11.1 (3.7)		11.7 (3.9)		11.6 (3.5)		11.0 (2.8)		10.6 (3.1)		Avg (SD)

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

Table 2.3. ACT Score Quartile Values

Quartile	English	Mathematics	Reading	Science	Composite
Q3 (75th Percentile)	26	26	27	25	26
Q2 (50th Percentile)	22	21	22	21	22
Q1 (25th Percentile)	17	17	17	19	18

Total Students in Report: 17,902

Table 2.4. Average ACT Composite Scores for Race/Ethnicity by Level of Preparation

Student Group	Race/Ethnicity	Number of Students Tested	Percent Taking Core or More ¹	Average ACT Composite Score	
				Core or More	Less Than Core
State	All Students	17,902	87	22.4	18.5
	African American/Black	3,607	75	18.3	15.4
	American Indian/Alaska Native	60	87	22.3	14.0
	Caucasian American/White	10,770	91	23.4	20.8
	Hispanic	722	90	21.4	17.6
	Asian American/Pacific Islander	953	91	23.8	21.6
	Other/No Response	1,790	85	23.3	19.6
National	All Students	1,480,469	70	22.0	19.1
	African American/Black	196,149	64	17.6	15.9
	American Indian/Alaska Native	15,773	59	20.1	17.4
	Caucasian American/White	941,206	73	23.0	20.1
	Hispanic	133,569	67	19.6	17.3
	Asian American/Pacific Islander	59,093	80	23.7	21.4
	Other/No Response	134,679	63	22.2	19.0

¹"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

Table 2.5. Average ACT Scores by Race/Ethnicity

Student Group	Race/Ethnicity	English	Mathematics	Reading	Science	Composite
State	All Students	21.7	21.8	22.3	21.4	21.9
	African American/Black	16.8	17.7	17.5	17.7	17.6
	American Indian/Alaska Native	21.0	21.4	22.2	21.2	21.6
	Caucasian American/White	23.1	22.7	23.7	22.5	23.1
	Hispanic	20.5	21.1	21.4	20.6	21.0
	Asian American/Pacific Islander	22.9	24.9	23.2	22.8	23.6
	Other/No Response	22.7	22.7	23.2	22.0	22.8
National	All Students	20.6	21.0	21.4	20.9	21.1
	African American/Black	16.0	17.1	16.9	17.2	16.9
	American Indian/Alaska Native	17.9	18.7	19.4	19.1	18.9
	Caucasian American/White	21.9	21.9	22.6	21.9	22.2
	Hispanic	17.7	19.1	18.9	18.8	18.7
	Asian American/Pacific Islander	22.6	24.5	22.7	22.7	23.2
	Other/No Response	20.4	21.0	21.3	20.7	20.9

Total Students in Report: 17,902

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	838	5	609	3	1,210	7	333	2
	28 to 32	2,317	13	1,958	11	3,019	17	1,413	8
	24 to 27	3,675	21	4,329	24	3,015	17	4,168	23
	20 to 23	4,754	27	3,914	22	4,361	24	6,167	34
	16 to 19	3,277	18	5,404	30	3,567	20	3,855	22
	13 to 15	1,694	9	1,595	9	1,880	11	1,232	7
	01 to 12	1,347	8	93	1	850	5	734	4
National	33 to 36	60,269	4	45,198	3	74,801	5	26,524	2
	28 to 32	154,245	10	139,060	9	205,090	14	104,787	7
	24 to 27	251,396	17	293,477	20	226,630	15	287,693	19
	20 to 23	376,203	25	300,212	20	361,756	24	492,815	33
	16 to 19	303,385	20	495,592	33	334,831	23	367,167	25
	13 to 15	179,194	12	198,214	13	195,336	13	131,197	9
	01 to 12	155,777	11	8,716	1	82,025	6	70,286	5

Table 2.7. Average ACT Scores by Gender

Student Group	Gender	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Males	7,631	43	21.1	22.5	22.1	21.9	22.0
	Females	10,216	57	22.1	21.3	22.4	21.1	21.9
	Missing	55	0	23.4	23.7	25.1	23.0	23.9
National	Males	668,165	45	20.2	21.6	21.3	21.4	21.3
	Females	808,097	55	20.9	20.4	21.4	20.4	20.9
	Missing	4,207	0	20.3	21.2	21.5	20.8	21.1

Table 2.8. Percent of Students Meeting College Readiness Benchmark Scores by Gender

Student Group	Gender	Percent of Students				Meet All Four
		English	Mathematics	Reading	Science	
State	Males	71	54	58	37	31
	Females	77	45	60	30	24
National	Males	65	47	52	33	27
	Females	69	38	53	24	20

Total Students in Report: 17,902

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

Student Group	Curriculum Taken ¹	N	English		Mathematics		Reading		Science		Composite	
			CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB % ³	Avg
State	Core or More ²	15,576	79	22.2	53	22.2	63	22.8	36	21.9	30	22.4
	Less than Core	1,856	45	17.7	24	18.6	34	18.8	15	18.3	12	18.5
	Missing	470	48	17.9	28	19.4	35	19.1	15	18.6	11	18.8
National	Core or More	1,039,502	75	21.7	50	21.9	59	22.3	34	21.7	28	22.0
	Less than Core	391,458	52	18.3	25	18.9	38	19.4	16	19.2	12	19.1
	Missing	49,509	35	15.9	16	17.5	25	17.3	10	17.6	7	17.2

¹"Curriculum Taken" reflects overall high school curriculum in this table.

²"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

³Composite CRB% results reflect students who meet all four subject-area benchmarks.

Table 2.10. College Readiness Benchmark (CRB) Percent and Average ACT Scores by Content-Specific Curriculum

Student Group	Curriculum Taken ¹	English			Mathematics			Reading			Science		
		N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg
State	Core or More	17,185	75	21.8	16,920	51	22.0	16,898	60	22.4	16,366	35	21.8
	Less than Core	272	57	18.9	528	4	15.6	550	49	20.9	1,079	8	17.1
	Missing	445	49	17.9	454	28	19.4	454	36	19.2	457	15	18.6
National	Core or More	1,367,549	70	20.9	1,334,313	46	21.4	1,287,169	55	21.7	1,206,541	32	21.5
	Less than Core	73,276	42	16.8	101,413	7	16.5	151,264	41	19.7	230,683	12	18.4
	Missing	39,644	37	16.1	44,743	17	17.5	42,036	26	17.5	43,245	11	17.7

¹"Curriculum Taken" reflects content-specific curriculum in this table.

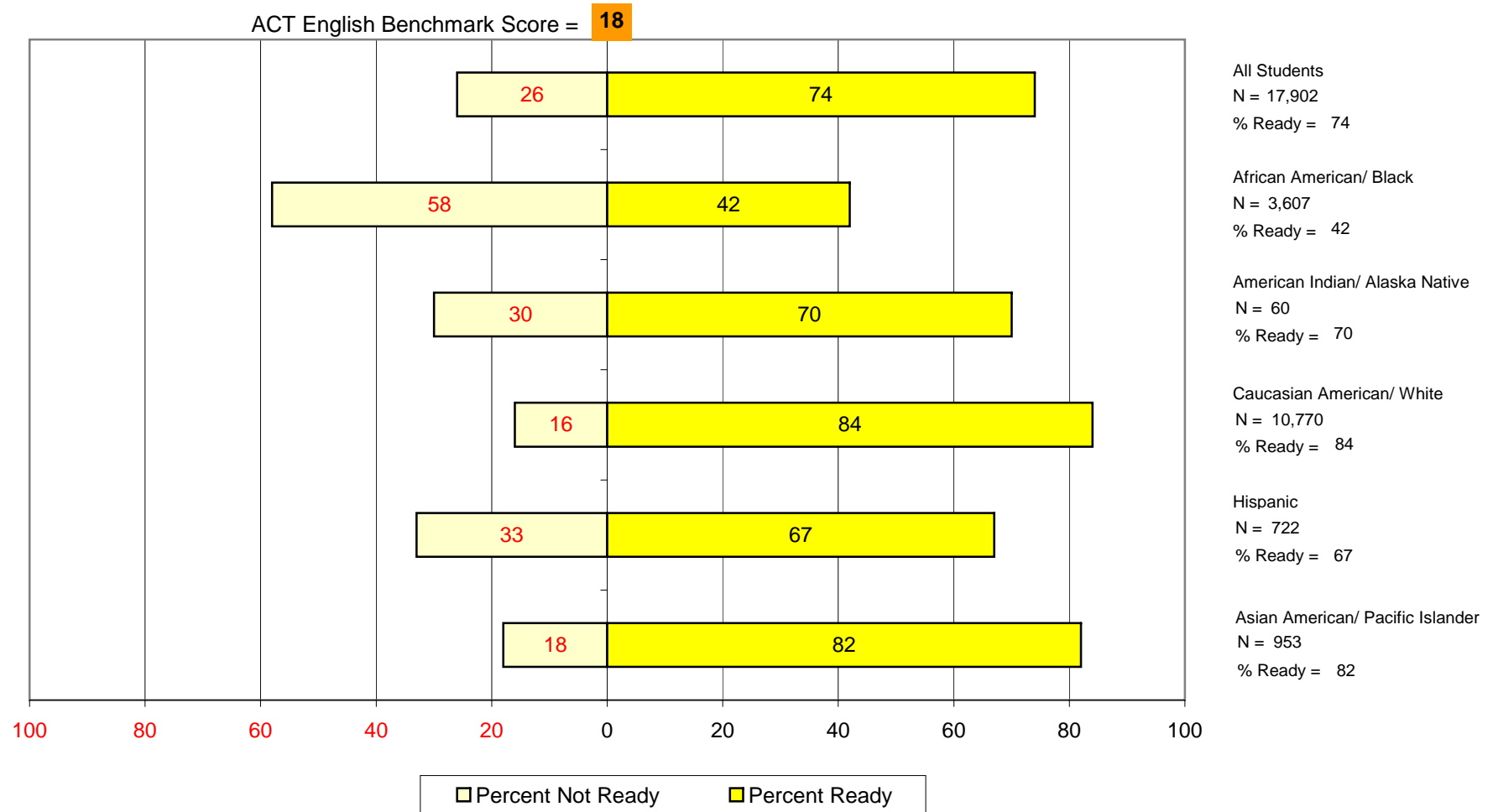
For instance, Reading "Core or More" results correspond to students taking three or more years of social studies, regardless of courses taken in other content areas.

Section III

College Readiness and the Impact of Course Rigor

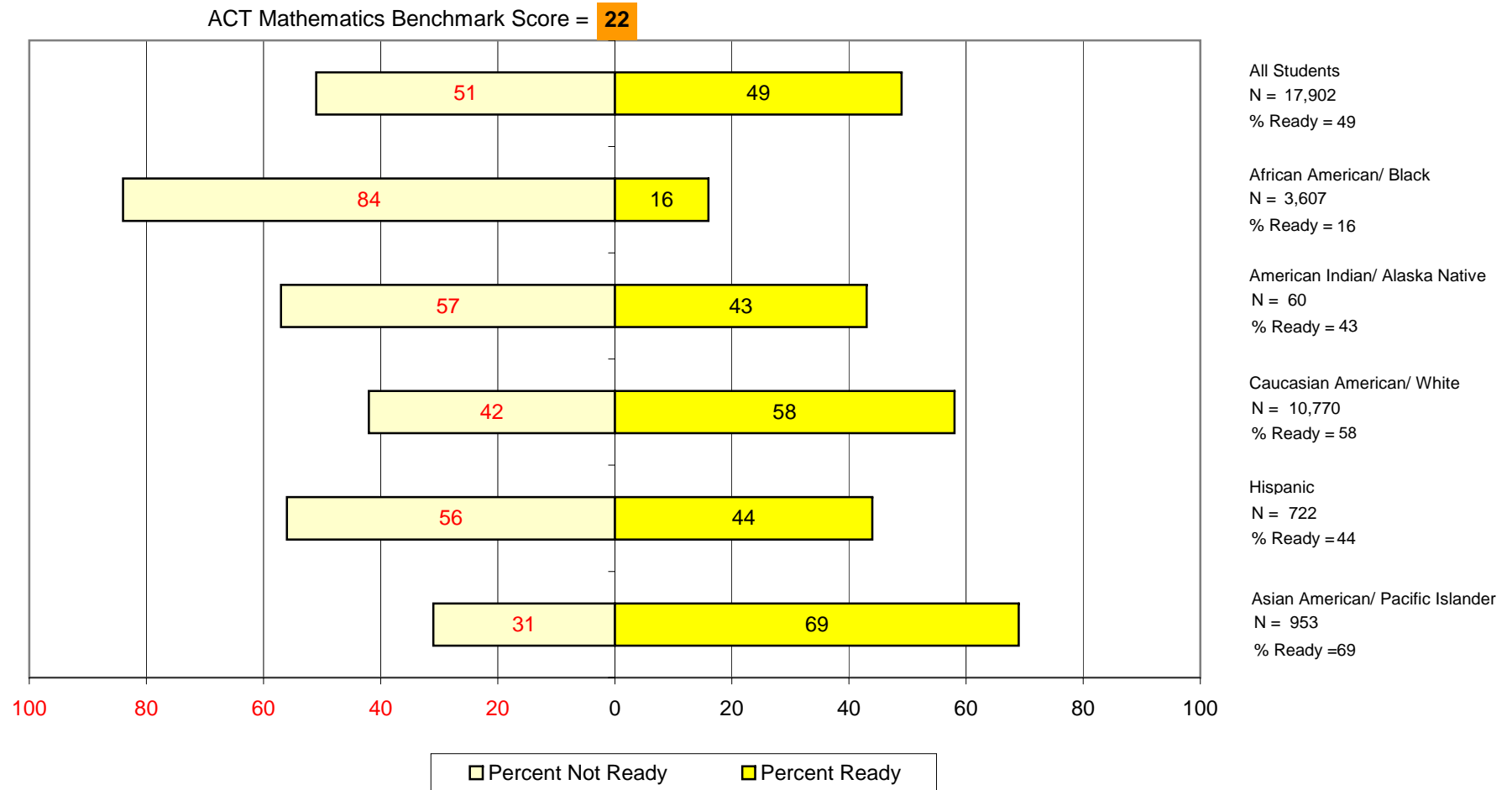
Total Students in Report: 17,902

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



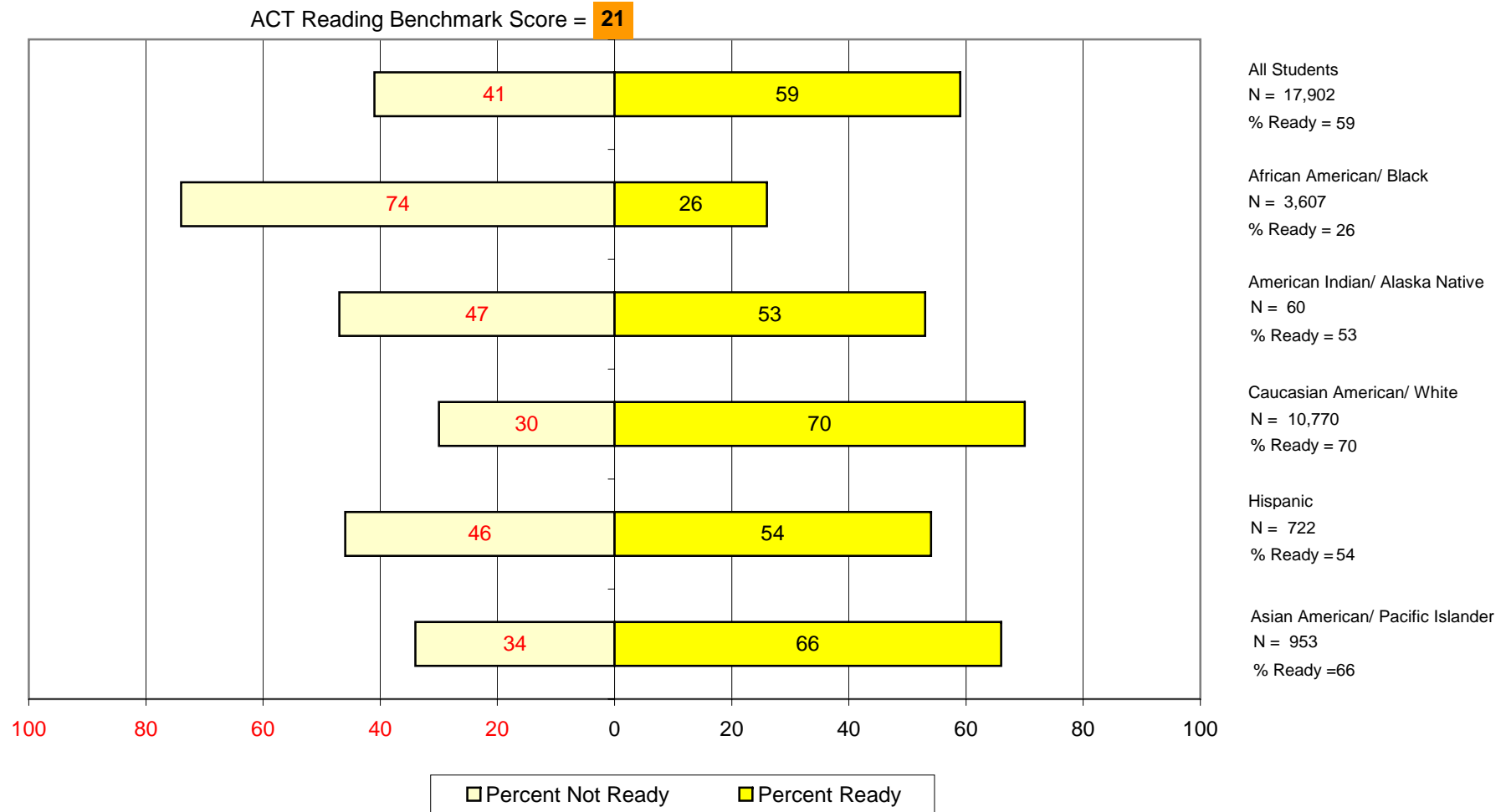
Total Students in Report: 17,902

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



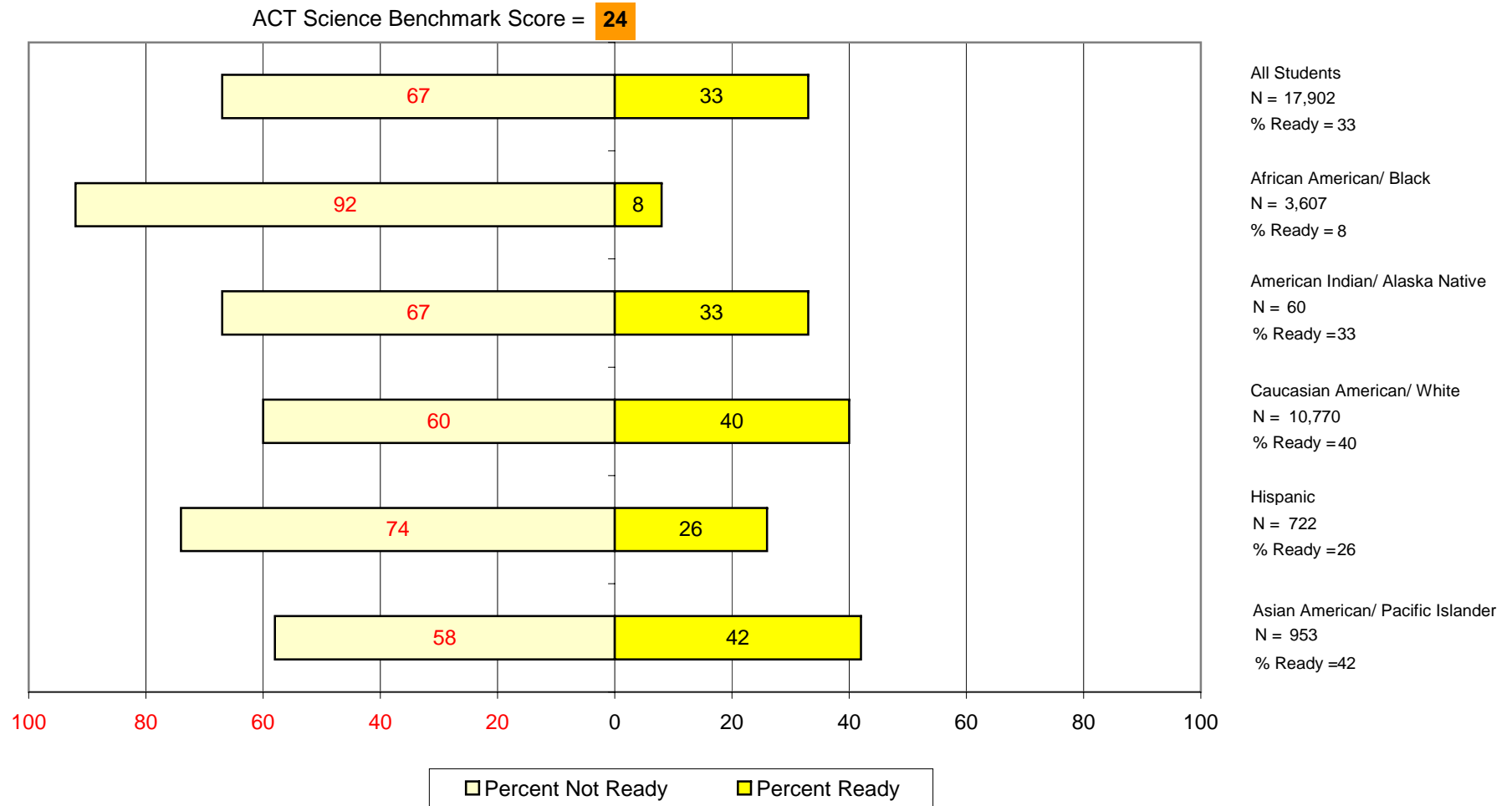
Total Students in Report: 17,902

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



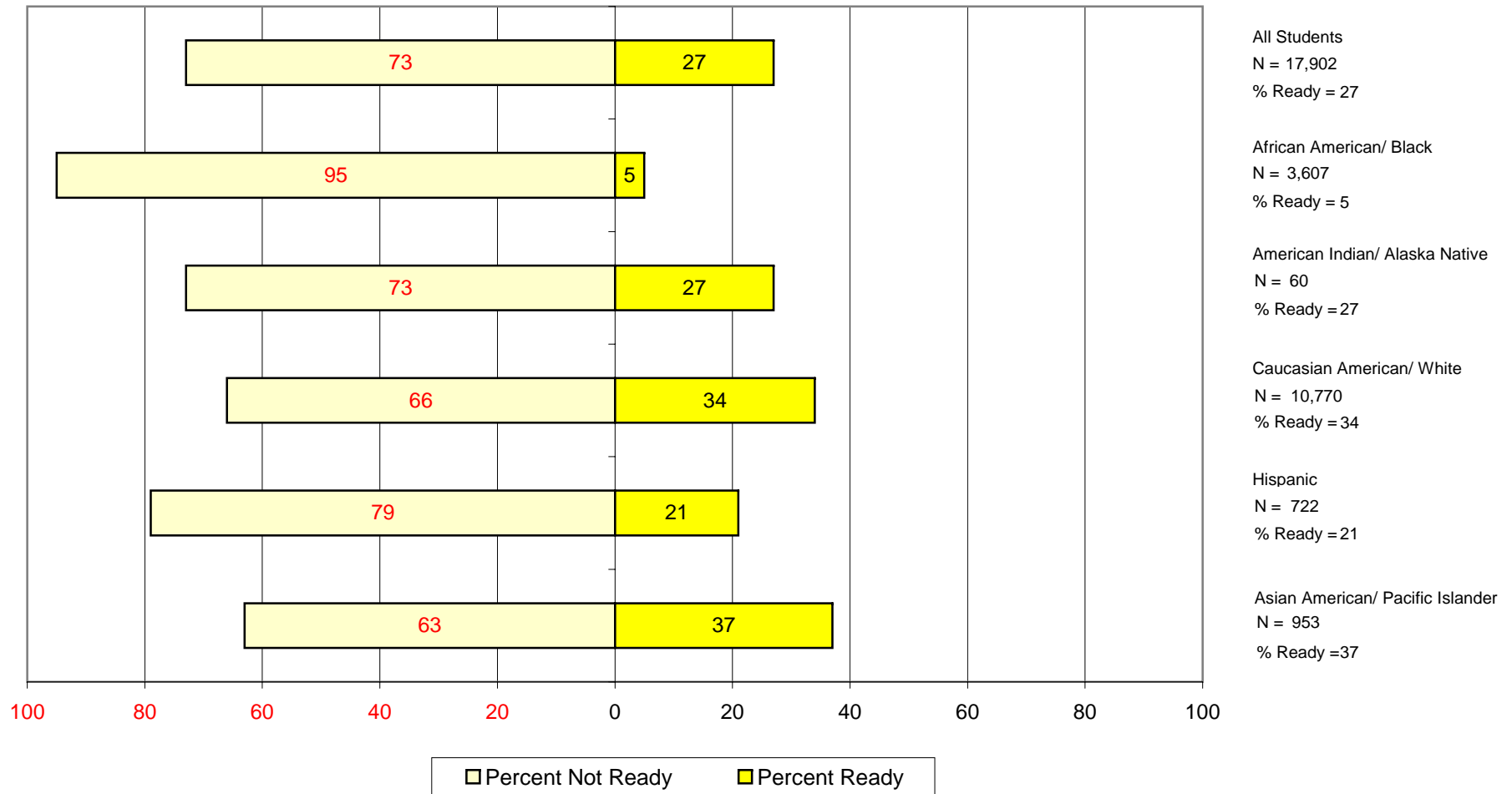
Total Students in Report: 17,902

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



Total Students in Report: 17,902

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



Total Students in Report: 17,902

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

Course Pattern	All Students				Males				Females			
	N	Percent	ACT English	Course Value Added 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	3,324	19	22.6	3.7	1,350	18	21.9	3.6	1,962	19	23.0	3.6
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	13,861	77	21.6	2.7	5,861	77	21.1	2.8	7,966	78	22.0	2.6
Less than 4 years of English	275	2	18.9	-	125	2	18.3	-	147	1	19.4	-
No English course/grade information reported	442	2	17.9	-	295	4	17.7	-	141	1	18.1	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	1,530	9	25.0	9.3	637	8	25.5	9.5	888	9	24.6	9.2
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,502	14	22.1	6.4	865	11	22.6	6.6	1,633	16	21.9	6.5
Alg 1, Alg 2, Geom, & Trig	1,670	9	19.8	4.1	626	8	20.4	4.4	1,041	10	19.4	4.0
Alg 1, Alg 2, Geom, & Other Adv Math	2,386	13	19.9	4.2	805	11	20.2	4.2	1,579	15	19.8	4.4
Other comb of 4 or more years of Math	6,208	35	24.5	8.8	2,994	39	25.3	9.3	3,187	31	23.7	8.3
Alg 1, Alg 2, & Geom (Min. Core)	1,858	10	17.1	1.4	800	10	17.4	1.4	1,054	10	16.9	1.5
Other comb of 3 or 3.5 years of Math	766	4	19.5	3.8	374	5	19.5	3.5	389	4	19.4	4.0
Less than 3 years of Math	536	3	15.7	-	234	3	16.0	-	301	3	15.4	-
No Math course/grade information reported	446	2	19.4	-	296	4	20.0	-	144	1	18.2	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	2,431	14	23.0	2.0	1,149	15	22.5	1.9	1,279	13	23.4	2.1
Other comb of 4 or more years Social Science	7,199	40	22.8	1.8	2,921	38	22.8	2.2	4,251	42	22.8	1.5
US Hist, World Hist, & Am Gov (Min. Core)	2,600	15	21.4	0.4	1,170	15	21.2	0.6	1,421	14	21.5	0.2
Other comb of 3 or 3.5 years of Social Science	4,668	26	22.1	1.1	1,826	24	21.9	1.3	2,833	28	22.2	0.9
Less than 3 years of Social Science	555	3	21.0	-	268	4	20.6	-	287	3	21.3	-
No Soc Sci course/grade information reported	449	3	19.1	-	297	4	19.2	-	145	1	18.8	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	9,351	52	22.5	5.3	4,284	56	23.0	6.1	5,036	49	22.0	4.6
Bio, Chem, Phys	1,445	8	24.5	7.3	586	8	25.5	8.6	854	8	23.7	6.3
Gen Sci ² , Bio, Chem (Min. Core)	5,203	29	20.1	2.9	1,751	23	20.0	3.1	3,444	34	20.1	2.7
Other comb of 3 years of Natural Science	367	2	18.9	1.7	186	2	19.7	2.8	179	2	18.1	0.7
Less than 3 years of Natural Science	1,086	6	17.2	-	528	7	16.9	-	555	5	17.4	-
No Nat Sci course/grade information reported	450	3	18.6	-	296	4	18.7	-	148	1	18.2	-

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.

Total Students in Report: 17,902

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	3,324	19	22.6	79	338,118	23	22.0	76
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	13,861	77	21.6	74	1,029,431	70	20.6	68
Less than 4 years of English	275	2	18.9	57	74,090	5	16.7	42
No English course/grade information reported	442	2	17.9	49	38,830	3	16.1	37
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	1,530	9	25.0	79	92,630	6	24.5	71
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,502	14	22.1	56	135,244	9	22.1	56
Alg 1, Alg 2, Geom, & Trig	1,670	9	19.8	32	110,962	7	20.0	35
Alg 1, Alg 2, Geom, & Other Adv Math	2,386	13	19.9	33	220,868	15	20.1	36
Other comb of 4 or more years of Math	6,208	35	24.5	70	455,130	31	23.9	66
Alg 1, Alg 2, & Geom (Min. Core)	1,858	10	17.1	9	248,747	17	17.5	12
Other comb of 3 or 3.5 years of Math	766	4	19.5	30	70,732	5	20.1	35
Less than 3 years of Math	536	3	15.7	4	105,591	7	16.5	7
No Math course/grade information reported	446	2	19.4	28	40,565	3	17.7	18
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	2,431	14	23.0	63	46,754	3	22.8	61
Other comb of 4 or more years Social Science	7,199	40	22.8	63	735,636	50	22.0	57
US Hist, World Hist, & Am Gov (Min. Core)	2,600	15	21.4	53	84,543	6	20.6	47
Other comb of 3 or 3.5 years of Social Science	4,668	26	22.1	58	420,236	28	21.3	52
Less than 3 years of Social Science	555	3	21.0	49	152,775	10	19.7	40
No Soc Sci course/grade information reported	449	3	19.1	35	40,525	3	17.5	26
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	9,351	52	22.5	40	563,824	38	22.2	39
Bio, Chem, Phys	1,445	8	24.5	59	141,531	10	23.3	47
Gen Sci ¹ , Bio, Chem (Min. Core)	5,203	29	20.1	21	459,833	31	20.1	21
Other comb of 3 years of Natural Science	367	2	18.9	16	41,353	3	19.8	21
Less than 3 years of Natural Science	1,086	6	17.2	8	233,215	16	18.4	11
No Nat Sci course/grade information reported	450	3	18.6	15	40,713	3	17.7	11

¹Includes General, Physical and Earth Sciences.

Section IV

Career and Educational Aspirations

Total Students in Report: 17,902

Table 4.1. Distribution of Planned Educational Majors for All Students by College Plans

Planned Educational Major	All Students			Plan on 2 Years or Less of College			Plan on 4 Years or More of College		
	N ¹	Percent ²	Avg ACT Comp	N	Percent ²	Avg ACT Comp	N	Percent ²	Avg ACT Comp
Agriculture Sciences & Technologies	135	1	19.3	7	4	15.4	121	1	19.6
Architecture & Environmental Design	351	2	22.0	5	3	16.6	332	2	22.2
Business & Management	2,217	12	21.2	24	14	15.6	2,005	13	21.3
Business & Office	91	1	20.3	4	2	17.0	78	0	20.2
Marketing & Distribution	291	2	20.2	2	1	15.0	265	2	20.3
Communications & Comm. Technologies	625	3	21.8	6	4	19.2	569	4	21.8
Community & Personal Services	268	1	19.1	6	4	14.8	235	1	19.3
Computer & Information Sciences	429	2	21.5	7	4	15.1	391	2	21.7
Cross-Disciplinary Studies	69	0	23.8	0	0	.	65	0	23.5
Education	743	4	21.0	9	5	15.8	684	4	21.1
Teacher Education	430	2	20.0	1	1	13.0	405	3	20.0
Engineering	910	5	24.3	2	1	18.0	858	5	24.5
Engineering-Related Technologies	549	3	22.6	5	3	22.0	488	3	22.8
Foreign Languages	164	1	24.4	1	1	15.0	147	1	24.5
Health Sciences & Allied Health Fields	2,516	14	21.2	34	20	17.6	2,301	15	21.3
Human, Family & Consumer Science	125	1	19.0	7	4	17.1	105	1	19.0
Letters	113	1	25.4	1	1	20.0	107	1	25.4
Mathematics	142	1	24.7	1	1	17.0	128	1	24.9
Philosophy, Religion & Theology	93	1	22.8	0	0	.	84	1	22.8
Sciences (Biological & Physical)	1,537	9	23.7	4	2	18.0	1,449	9	23.6
Social Sciences	1,607	9	22.6	3	2	19.3	1,511	10	22.6
Trade & Industrial	46	0	18.6	12	7	16.7	29	0	19.3
Visual & Performing Arts	972	5	21.7	6	4	18.0	868	6	21.6
Undecided	2,892	16	22.5	17	10	18.4	2,400	15	22.6
No Response	587	3	18.7	2	1	22.0	55	0	20.4

¹2-Year and 4-Year "N" counts do not reflect "Missing" and "Other" institution types, therefore they may not add up to the N count for All Students.

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

Total Students in Report: 17,902

Table 4.2. Average ACT Composite Scores for Racial/Ethnic Groups by Post-Secondary Educational Aspirations

Educational Degree Aspirations	All Racial/Ethnic Groups Combined		African American/ Black		American Indian/ Alaska Native		Caucasian American/White		Hispanic		Asian American/ Pacific Islander		Other/No Response	
	N	Average	N	Average	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	23	17.5	10	15.9	0	.	12	18.3	1	24.0	0	.	0	.
2-yr College Degree	143	17.0	48	14.5	0	.	76	18.7	6	15.5	5	16.0	8	17.8
Bachelors Degree	6,298	20.5	1,249	16.6	19	19.2	4,172	21.6	218	19.2	193	20.7	447	21.0
Graduate Study	4,514	23.2	682	18.6	14	23.8	3,016	24.1	157	22.3	205	24.0	440	23.6
Prof. Level Degree	4,868	23.2	1,112	18.8	16	23.1	2,478	24.9	265	22.3	432	24.8	565	23.8
Other	307	18.7	92	15.4	4	24.3	142	20.5	20	17.6	19	20.8	30	18.9
No Response	1,749	21.3	414	16.4	7	18.6	874	22.8	55	20.6	99	23.8	300	22.9

Total Students in Report: 17,902

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
JAMES MADISON UNIVERSITY	Virginia	2,785	784	2,001	0	4	15	34	33	13	1
VIRGINIA TECH	Virginia	2,728	927	1,801	0	3	12	29	36	18	2
VIRGINIA COMMONWEALTH UNIVERSITY	Virginia	2,116	596	1,520	3	10	30	31	19	7	0
OLD DOMINION UNIVERSITY	Virginia	2,008	473	1,535	3	14	34	30	14	4	0
UNIV OF VIRGINIA-MAIN CAMPUS	Virginia	1,899	630	1,269	1	2	9	18	35	31	4
GEORGE MASON UNIVERSITY	Virginia	1,693	446	1,247	1	6	22	35	26	9	0
CHRISTOPHER NEWPORT UNIVERSITY	Virginia	1,286	336	950	1	5	23	37	26	8	0
RADFORD UNIVERSITY	Virginia	1,132	251	881	2	9	33	37	16	2	0
COLLEGE OF WILLIAM AND MARY	Virginia	996	274	722	0	1	6	18	33	38	4
LONGWOOD UNIVERSITY	Virginia	811	184	627	1	8	29	41	18	3	0
VIRGINIA STATE UNIVERSITY	Virginia	676	177	499	11	32	40	13	3	1	0
NORFOLK STATE UNIVERSITY	Virginia	637	195	442	12	36	40	9	2	0	0
UNIVERSITY OF MARY WASHINGTON	Virginia	632	102	530	0	4	16	32	33	14	1
NCAA ELIGIBILITY CENTER	Indiana	551	322	229	5	15	31	26	17	6	1
HAMPTON UNIVERSITY	Virginia	483	145	338	6	24	40	23	6	1	0
LIBERTY UNIVERSITY	Virginia	441	195	246	3	13	32	33	13	5	0
UNIVERSITY OF RICHMOND	Virginia	304	69	235	1	8	15	24	28	23	1
EAST CAROLINA UNIVERSITY	North Carolina	296	68	228	1	7	24	42	21	4	0
BRIDGEWATER COLLEGE	Virginia	258	63	195	1	8	36	34	17	4	0
WEST VIRGINIA UNIVERSITY	West Virginia	255	66	189	1	4	29	38	22	5	0
UNIV OF NORTH CAROLINA AT CHAPEL HILL	North Carolina	240	56	184	0	3	12	15	36	31	3
ROANOKE COLLEGE	Virginia	233	61	172	1	6	28	38	22	5	0
HOWARD UNIVERSITY	District of Columbia	229	91	138	5	13	39	30	12	2	0
LYNCHBURG COLLEGE	Virginia	227	57	170	2	8	35	35	16	4	0
UNIV OF SOUTH CAROLINA-COLUMBIA	South Carolina	207	46	161	1	1	9	34	38	16	0
VIRGINIA MILITARY INSTITUTE	Virginia	205	89	116	1	3	24	34	26	10	0
FERRUM COLLEGE	Virginia	194	56	138	4	24	44	19	8	1	0
PENN STATE-UNIVERSITY PARK CAMPUS	Pennsylvania	179	40	139	0	4	8	33	30	22	2
NORTH CAROLINA STATE UNIV AT RALEIGH	North Carolina	178	36	142	3	8	16	28	33	13	0
CLEMSON UNIVERSITY	South Carolina	174	31	143	1	3	7	26	40	22	0
All Other Institutions		13,265	3,585	9,680	2	9	21	26	23	17	2
Total		37,318	10,451	26,867	2	8	22	28	24	14	2

Section V

Optional Writing Test Results

Total Students in Report: 17,902

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	11,474	814,713	22.7	21.5	7.3	7.2	21.8	20.8
African American/Black	1,954	96,225	17.6	16.5	6.5	6.4	17.3	16.5
American Indian/Alaska Native	42	5,489	22.5	18.9	6.9	6.7	21.3	18.5
Caucasian American/White	6,999	497,164	24.0	22.8	7.4	7.3	22.9	21.9
Hispanic	487	85,681	21.3	18.4	7.3	7.0	20.8	18.4
Asian American/Pacific Islander	720	44,716	23.7	23.5	7.7	7.6	22.9	22.8
Other/No Response	1,272	85,438	23.7	21.4	7.5	7.2	22.7	20.8
Males	4,592	357,025	22.3	21.1	7.0	6.9	21.3	20.3
Females	6,838	455,190	23.0	21.7	7.4	7.4	22.2	21.2
Missing	44	2,498	24.5	22.1	7.3	7.2	23.3	21.3

