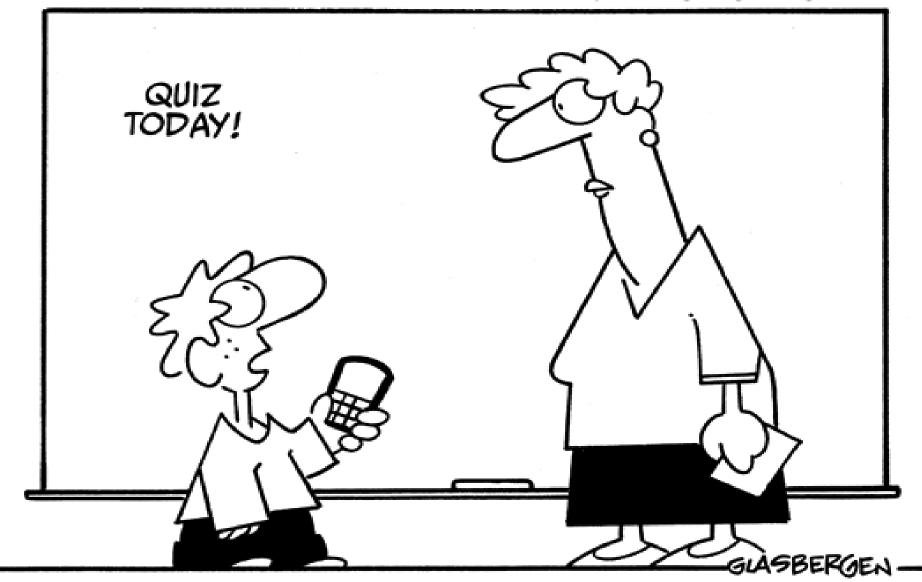
Turning Obstacles into Opportunities: Creating a Path from Access to Success

Aaron Thompson, PhD MWERA November 2013

COLLEGE READINESS

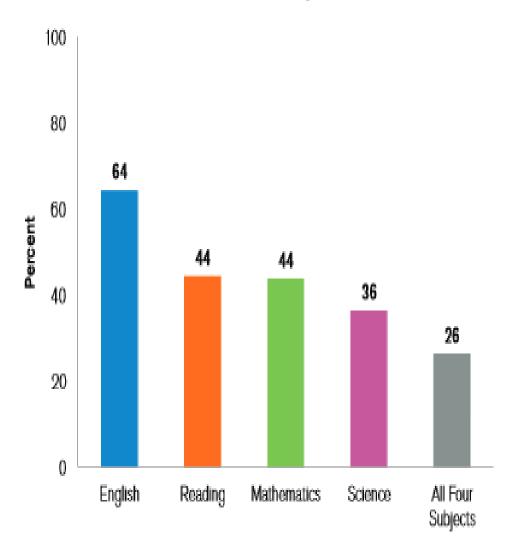
80 03



"Once I learn how to use Google, isn't that all the education I really need?"

ACT College Readiness Benchmarks by Subject

Percent of ACT-Tested High School Graduates Meeting ACT College Readiness Benchmarks by Subject, 2013



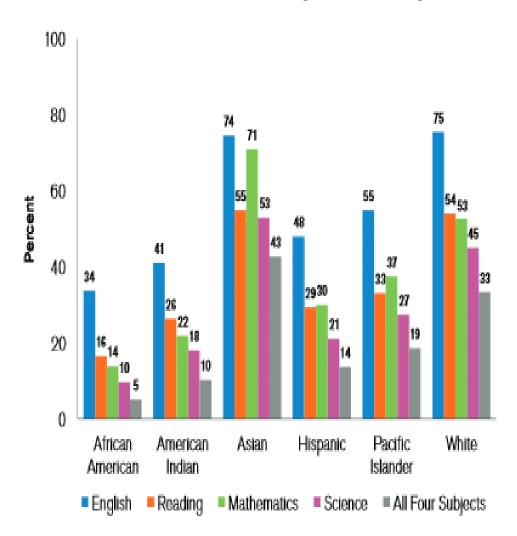
In 2013, 64% of all ACT-tested high school graduates met the English ACT College Readiness Benchmark, while 26% met the ACT College Readiness Benchmarks in all four subjects. Forty-four percent of graduates met the Reading Benchmark, and 44% met the Mathematics Benchmark. Just over 1 in 3 (36%) met the ACT College Readiness Benchmark in Science.



"Your brain is like a sponge that absorbs knowledge, but that's not exactly how it's done."

ACT College Readiness Benchmarks by Race/Ethnicity

Percent of ACT-Tested High School Graduates Meeting ACT College Readiness Benchmarks by Race/Ethnicity, 2013



Just over 4 in 10 (43%) Asian graduates met all four ACT College Readiness Benchmarks in 2013, a higher rate than that of graduates from all other racial/ethnic groups. African American graduates were least likely to meet the Benchmarks—5% met all four.

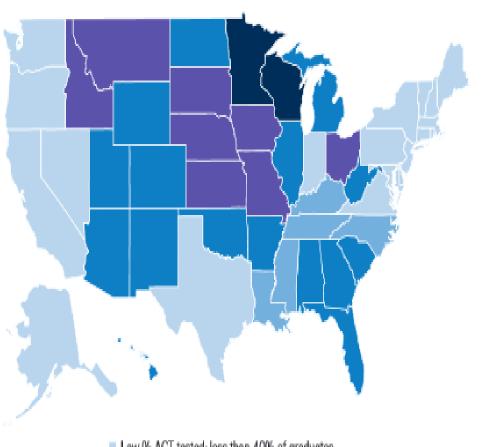
Students from most racial/ethnic groups were most likely to meet the English Benchmark and least likely to meet the Science Benchmarks. In three of the four subject areas, Benchmarks were met by 50% or more of Asian and White students, while one was met by 50% or more of Pacific Islander students. None of the Benchmarks were met by 50% or more of African American, American Indian, or Hispanic students.

Graph reads: In 2013, 34% of ACT-tested African American high school graduates met the ACT College Readiness Benchmark in English, while 16% did so in Reading.

Note: Race/ethnicity categories changed in 2011 to reflect updated US Department of Education reporting requirements.

ACT College Readiness Benchmarks by State

Percent of ACT-Tested High School Graduates Meeting Three or Four ACT College Readiness Benchmarks by State, 2013



Of the 31 states where 40% or more of their 2013 high school graduates took the ACT, in only 2 states did more than half of the graduates meet three or more ACT College Readiness Benchmarks. In another 8 states, 40%–49% of graduates met three or four Benchmarks.

In 16 states, 30%–39% of graduates met three or more ACT College Readiness Benchmarks in 2013, while less than 30% of graduates did so in 5 states. In no state did more than 56% of ACT-tested graduates meet three or four Benchmarks.

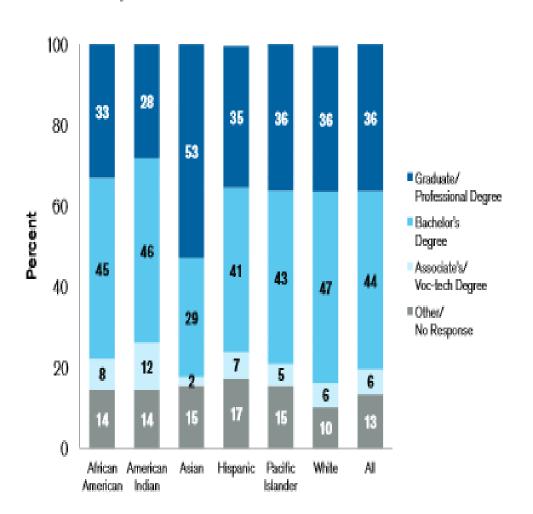
 Low % ACT-tested; less than 40% of graduates took the ACT to allow for a fair comparison

<30% ■30%-39% ■40%-49% ■50%-56%</p>

Map reads: In 2013, less than 30% of ACT-tested high school graduates in 5 states (e.g., Louisiana) met three or four ACT College Readiness Benchmarks. Results are not shown for 20 states (e.g., California) within which less than 40% of graduates took the ACT

Educational Aspirations by Race/Ethnicity

Percent of ACT-Tested High School Graduates by Race/Ethnicity and Educational Aspirations, 2013



About 87% of all 2013 ACT-tested high school graduates aspired to attain at least a 2-year postsecondary degree, regardless of race/ethnicity.

About 82% of Asian graduates aspired to earn at least a bachelor's degree, with 53% aspiring to continue their formal education beyond a 4-year degree. American Indian graduates (28%) were the least likely to aspire to a graduate or professional degree; 33%–36% of African American, Hispanic, Pacific Islander, or White graduates aspired to a graduate or professional degree.

Graph reads: In 2013, 33% of ACT-tested African American high school graduates aspired to a graduate or professional degree, 45% to a bachelor's degree, 8% to an associate's or voc-tech degree, and 14% to another degree type (or provided no response).

Note: Columns may not sum to 100% due to rounding.

Race/ethnicity categories changed in 2011 to reflect updated

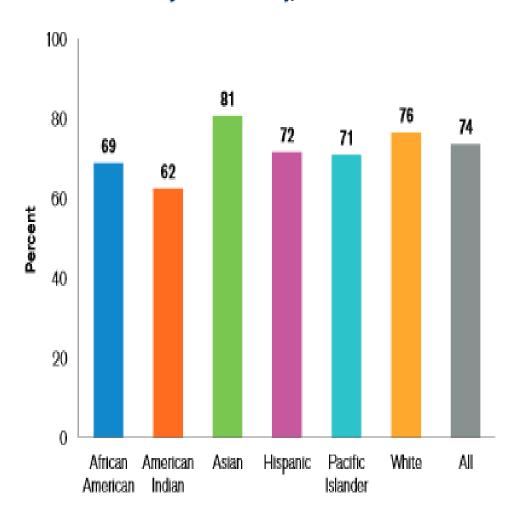
US Department of Education reporting requirements.



"My goal is to be a failure. If I reach my goal, I'll feel successful and if I don't reach my goal, I'll feel successful too!"

Percent of Graduates Who Took a Core Curriculum by Race/Ethnicity

Percent of ACT-Tested High School Graduates Who Completed a Core Curriculum by Race/Ethnicity, 2013



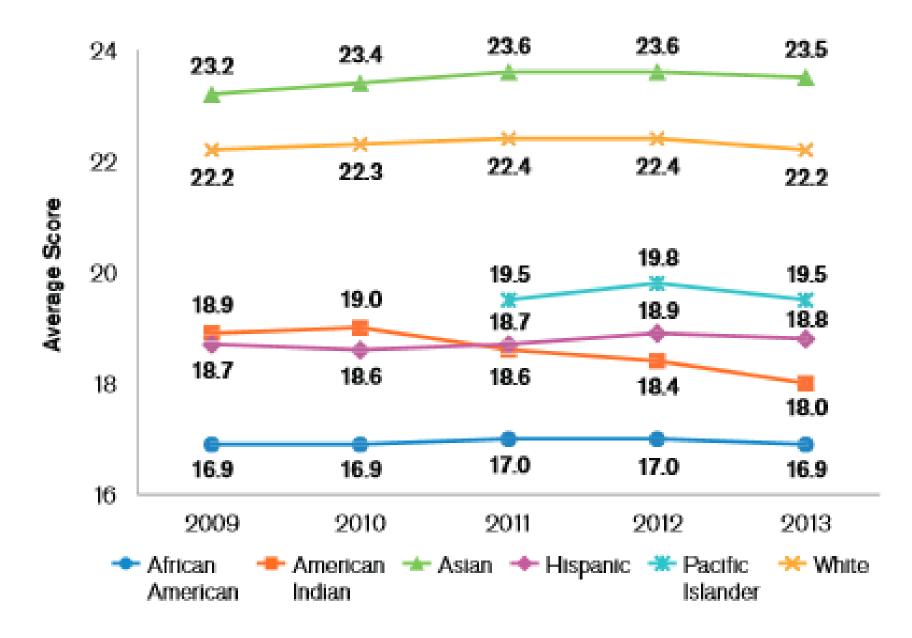
Seventy-four percent of all 2013 ACT-tested high school graduates took at least a minimum core high school curriculum to prepare them for college.

Asian students (81%) were most likely to complete a core curriculum, while 76% of White and 72% of Hispanic students did so. Smaller percentages of Pacific Islander (71%), African American (69%), and American Indian (62%) students completed a core curriculum.

Graph reads: In 2013, 69% of all African American high school graduates who had taken the ACT had completed, or had planned to complete, at least a core curriculum.

Note: Race/ethnicity categories changed in 2011 to reflect updated US Department of Education reporting requirements.

Average ACT Composite Test Scores by Race/Ethnicity, 2009–2013



ENROLLMENT AND COMPLETION

80 03

Figure 23.2 Percentage of 18- to 24-year-olds enrolled in colleges and universities, by race/ethnicity: Selected years: 1980–2008

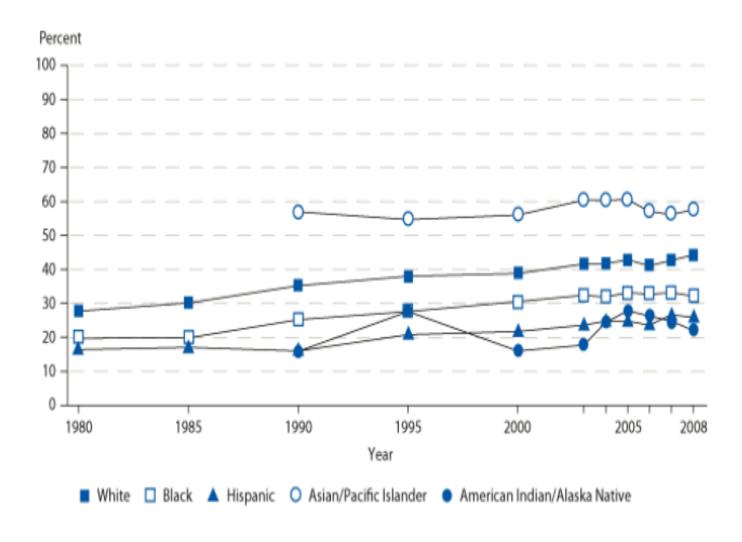
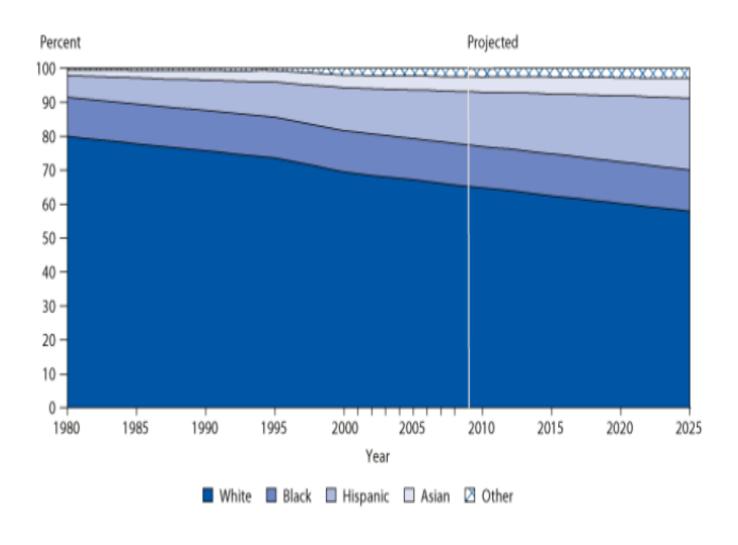


Figure 25a. Percentage of full-time, full-year undergraduates receiving financial aid, by race/ethnicity: 2007-08



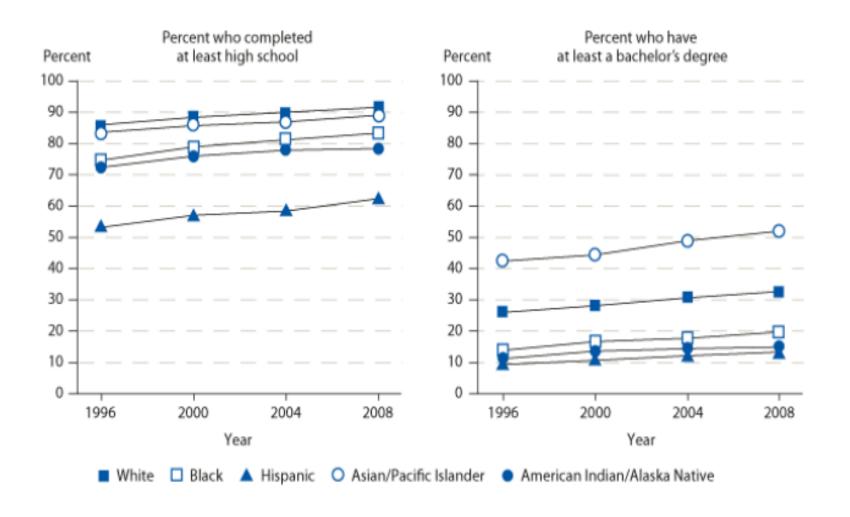
NOTE: Race categories exclude persons of Hispanic ethnicity.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2007-08 National Postsecondary Student Aid Study (NPSAS:08).



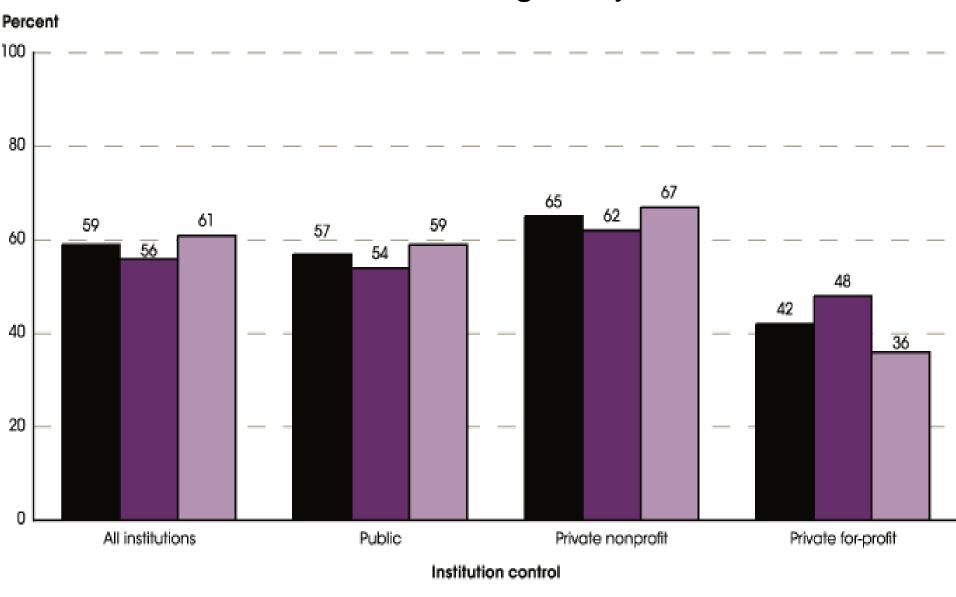
"I already owe \$15,000 in student loans. And that's just for my high school prom!"

Figure 27. Percentage of adults ages 25 and over who completed at least high school and percentage who have at least a bachelor's degree, by race/ethnicity: Selected years, 1996–2008



NOTE: "Completed high school" includes persons with a high school diploma or equivalent. Race categories exclude persons of Hispanic ethnicity. SOURCE: U.S. Department of Commerce, Census Bureau, Current Population Survey (CPS), Annual Demographic Supplement, 1996, 2000, 2004, and Annual Social and Economic Supplement, 2008.

Percentage of students seeking a bachelor's degree at 4-year degree-granting institutions who completed a bachelor's degree within 6 years, by control of institution and sex: Starting cohort year 2005



Males

Females

Total

Percentage of first-time full-time bachelor's degree-seeking students at 4-year institutions who completed a bachelor's degree, by race/ethnicity, time to completion, sex, and control of institution; Selected cohort entry years, 1996 through

2005	iipicuoii, se	za, um	a conu	VI VI I	noutuu	IVII. JU	iccicu coi	ion chay y	(Cui3, 1330 ti	nougn
					Asia	n/Pacific	Islander	American Indian/		
Time to completion, sex, control of institution, and cohort entry year	Total	White	Black	His- panic	Total	Asian	Pacific Islander	Alaska		1
1	2	3	4	5	6	7	8	9	10	1
Completing within 4 years after start, males and females All 4-year institutions										

					Asia	n/Pacific	Islander	American Indian/		
Time to completion, sex, control of institution, and cohort entry year	Total	White	Black	His- panic	Total	Asian	Pacific Islander	Alaska		Nonre dent ali
1	2	3	4	5	6	7	8	9	10	
Completing within 4 years after										

19.5

21.3

20.4

19.9

20.4

20.8

22.8

25.9

26.4

26.5

27.9

28,6

33.7

36.1

36.4

37.9

38.9

39.3

40.0

41.1

1996 starting cohort

2000 starting cohort

2002 starting cohort

2003 starting cohort

2004 starting cohort

2005 starting cohort

37.5

41.0

42.8

43.8

45.0

45.1

45.5

22.7

18.8

21.0

20.5

20.4

21.8

22.5

41.7

41.9

38.7

37.3

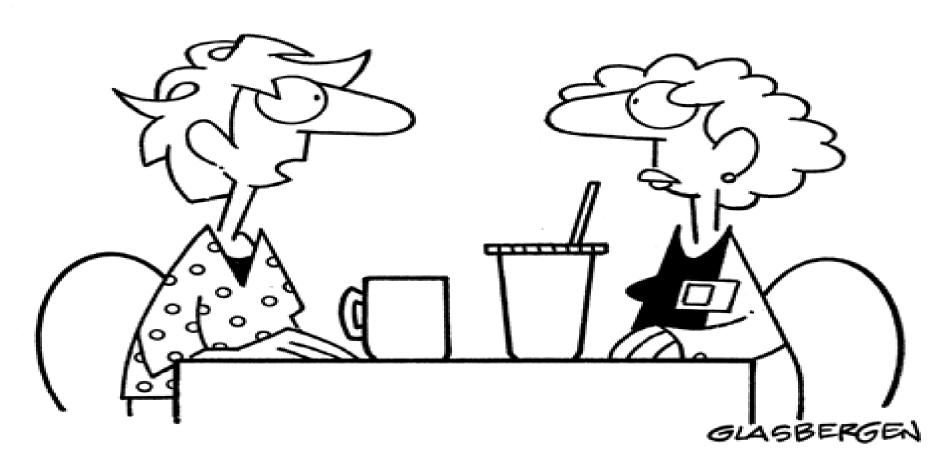
43.7

44.0

44.1

Percentage of first-time full-time bachelor's degree-seeking students at 4-year institutions who completed a bachelor's degree, by race/ethnicity, time to completion, sex, and control of institution: Selected cohort entry years, 1996 through 2005

					Asia	n/Pacific	Islander	American Indian/	1	
me to completion, sex, control of				His-			Pacific	Alaska	1	Nonres
stitution, and cohort entry year	Total	White	Black	panic	Total	Asian	Islander	Native	-	
	2	3	4	5	6	7	8	9	10	1
Completing within 4 years after start, males										
All 4-year institutions										
1996 starting cohort	28.5	30.6	13.9	19.0	32.2	-	-	15.1	-	38.6
2000 starting cohort	31.1	33.4	15.5	21.8	35.7	-	-	17.1	-	39.3
2002 starting cohort	31.3	33.8	14.7	21.8	37.4	-	-	17.2	-	36.6
2003 starting cohort	31.9	34.6	14.6	22.3	38.9	-	-	17.5	-	36.1
2004 starting cohort	32.9		15.0	23.2	39.9	-	-	18.9	-	39.7
2005 starting cohort	34.1	36.6	16.3	24.8	40.0	40.3	20.8	20.1	40.1	40.2
Completing within 4 years after start, females							ĺ			
All 4-year institutions										
1996 starting cohort	38.0	41.1	23.2	25.8	42.2	_	_	21.7	_	45.8
2000 starting cohort	40.2	43.5	25.2	29.0	45.7	-	_	24.0	-	45.3
2002 starting cohort	40.5	43.9	24.3	29.9	47.4	-	_	23.0	_	41.0
2003 starting cohort	40.6	44.4	23.6	29.5	48.0	-	_	22.5	-	38.4
2004 starting cohort	42.1	45.8	24.1	31.3	49.4	-	_	23.9	_	48.1
2005 starting cohort	42.3	46.3	23.9	31.4	49.6	50.1	24.2	24.4	47.3	48.4



"I spent 2 years in nursing school. There was 3 months of anatomy, 3 months of clinical and 18 months learning how to wash our hands properly."

21ST CENTURY SKILLS

80 03

Preparing Students for the Twenty-First Century Realities

- According to AAC&U in recent years, the ground has shifted for Americans in virtually every important sphere of life, economic, global, cross-cultural, environmental, and civic. The world is being drastically reshaped by scientific and technological innovations, global interdependence, cross cultural encounters and changes in the balance of economic and political power.
- Taking stock of these developments, educators and employers have begun to reach similar conclusions –an emerging consensus about the kinds of learning Americans need from college.
- In this report they outline the Essential Learning Outcomes that students need to become intentional learners and guiding Principles of Excellence that recommend effective educational practices that help students to integrate their learning and apply it to complex problems. They present a comprehensive set of aims and outcomes that are essential for both a globally engaged democracy and for a dynamic innovation fueled economy.

21st Century Learning will include

- science, mathematics, and technology—including a solid grasp of the methods by which scientific knowledge is tested, validated, and revised
- cultural and humanistic literacy—including knowledge of the world's histories, American history, philosophical traditions, major religions, diverse cultural legacies, and contested questions
- global knowledge and competence—including an understanding of economic forces, other cultures, interdependence, and political dynamics, as well as second-language competence and direct experience with cultural traditions other than one's own
- civic knowledge and engagement—including a rich understanding of the values and struggles that have established democratic institutions and expanded human freedom and justice, and direct experience in addressing the needs of the larger community
- inquiry- and project-based learning—including multiple opportunities to work, independently and collaboratively, on projects that require the integration of knowledge with skills in analysis, discovery, problem solving, and communication

OBSTACLES TO SUCCESS

80 03

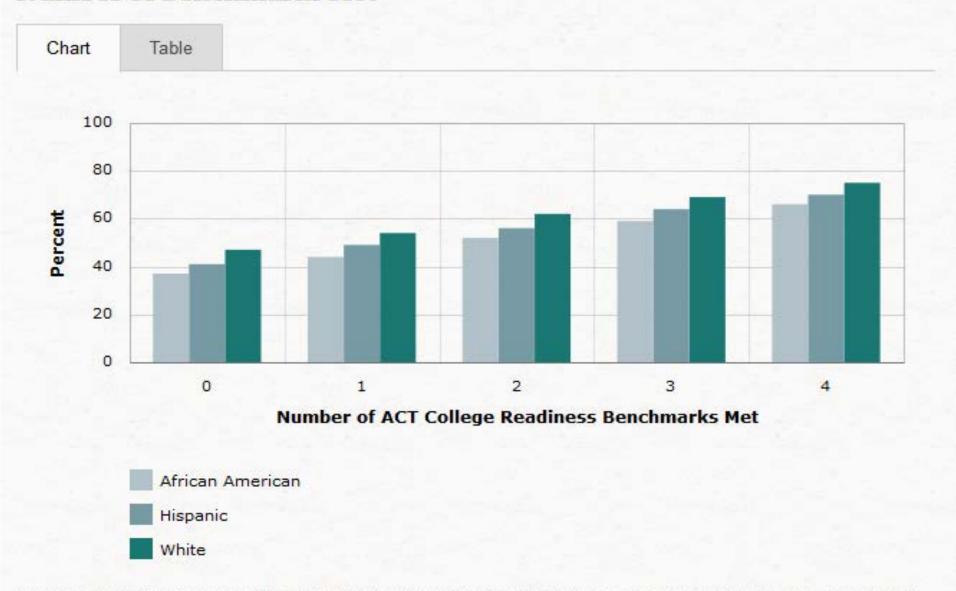
"Taking students who have not been successful in school and putting them in environments that mimic those negative experiences is the definition of insanity." — Diego Navaro, Academy for College Excellence

Table 1: Enrollment and Graduation Rates Are Up for All Students at Four-Year Colleges and Universities Fall Undergraduate Enrollment Black Hispanic White 2009 1,271,636 949,304 5,928,302 2010 1,337,325 1,053,700 6,058,845 6,090,212 2011 1,379,680 1,158,268 09-11% +8.5%+22.0% +2.7%Change Six-Year Graduation Rate

	Black	Hispanic	White
2009	39.1%	48.7%	60.8%
2010	39.5%	50.1%	61.5%
2011	39.9%	51.0%	62.1%
09-11% Change	+2.0%	+4.7%	+2.1%

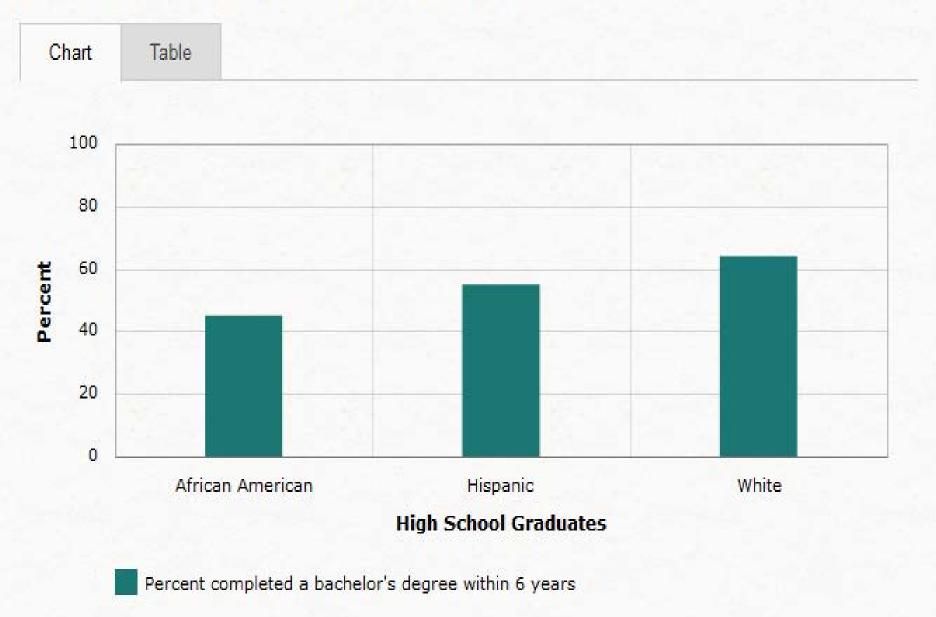
Source: NCES (December 2012). Enrollment in Postsecondary Institutions, Fall 2011; Financial Statistics, Fiscal Year 2011; and Graduation Rates, Selected Cohorts, 2003-2008, First Look (Provisional Data); NCES (March 2012). Enrollment in Postsecondary Institutions, Fall 2010; Financial Statistics, Fiscal Year 2010; and Graduation Rates, Selected Cohorts, 2005-2007, First Look; and NCES (February 2011). Enrollment in Postsecondary Institutions, Fall 2009; Graduation Rates, 2003 & 2006 Cohorts; and Financial Statistics, Fiscal Year 2009, First Look.

Six-Year Bachelor's Degree Completion Rates by Race/Ethnicity and Number of Benchmarks Met



Note: Based on a random sample of 18,860 ACT-tested 2003 high school graduates who enrolled in a four-year college in fall 2003. Degree information was obtained from the National Student Clearinghouse. Degree completion rates were model-based estimates. For a more detailed description of the study, see the full ACT Research Report 2012-2.

Race/Ethnicity and College Completion



Note: Percentages based on a random sample of 18,860 ACT-tested 2003 high school graduates who enrolled in a four-year college in fall 2003.

Likelihood of Success for Underprepared Students

- National statistics tell that that only 3 in 10 students in remedial math courses reach college-level courses and even fewer actually complete college.
- A large urban California community college's own data found that 4% of African Americans, 7% of Latinos, and 12% of Whites who began English remedial courses at the lowest level ever complete a college-level English course.
- In California, over 80% of Latino and African American students who enroll in community colleges have not completed any degree or certificate, or transferred six years later.

Obstacles to Success

Incompatibility

- Poor institutional or departmental fit expectations of campus and the realities do not agree
 - Coordination of student recruitment and retention efforts
 - Include admissions professionals on student retention committees/task forces

Academic Underpreparedness

- inadequately prepared to accommodate the academic demands and meet the minimal academic standards of the college/university or academic department
 - Effective course placement at college entry
 - Strategic scheduling and remedial education

Obstacles to Success

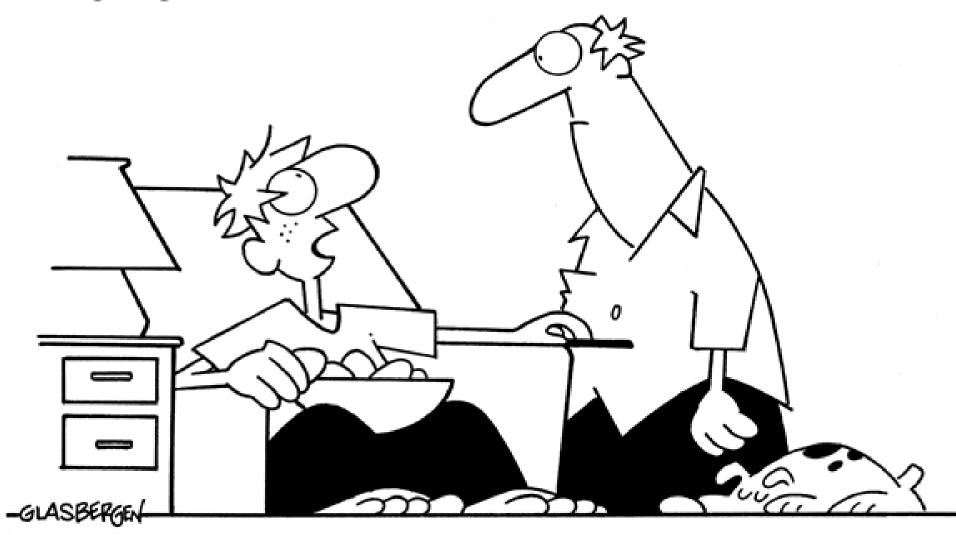
Lack of Motivation

- lack of student interest in or perceived irrelevance of the subject matter of college courses and/or the manner in which courses are delivered (pedagogy)
 - Infuse relevant topics/examples and experiential learning into introductory courses
 - Use engaging pedagogy to complement/augment the lecture method

Low Initial Commitment

- Not intending to remain at and graduate from college in general, from the particular campus at which the student is enrolled, or from the student's particular field of study (or lack thereof)
 - Intentionally articulate/demonstrate the benefits of a college education
 - Build students' identification and pride in the college they're currently attending
 - Developmental/appreciative academic advising and educational/career planning

© Randy Glasbergen www.glasbergen.com



"These days children move back home after college. If I'm already home, why do I need college?"

Obstacles to Success

Competing Commitments

- conflicting commitments or obligations to communities outside of college (e.g., family/employers) that "pull away" students' time and energy away from the college experience
 - Family orientation and communication
 - On-campus employment and financial support

Lack of Social Integration

- an absence of personal and meaningful social contact with other members of the college community, resulting in feelings of isolation, marginalization, or disenfranchisement
 - Connecting students to the campus community via the co-curriculum (student life)
 - Connecting students with each classmates via learning communities

Obstacles to Success

Emotional or Psychosocial Adjustment Issues

- difficulty coping with unfamiliar demands and stressors that accompany the transition into higher education, and/or mental health issues that arise during the college experience
 - Proactive and intrusive introduction of personal counseling services
 - Faculty/staff development on problem identification and student referral strategies

The College Experience for Minorities

- Bonner & Bailey (2006) found that students of color are faced with low expectations from their K-12 teachers; these often materialize in the college environment.
- As a result, students of color may be overwhelmed by the rigor of college level coursework and unprepared to meet the expectations of college professors.
- Research consistently finds that the dissatisfaction students of color have with the college experience is as a result of the unwelcome environment they find themselves in when they enter college.

Additional Obstacles for Minorities

- Lack of parental/family encouragement to persist
- Discouragement received from friends who chose not to pursue postsecondary education (i.e. jealousy, lack of shared experiences, etc.)
- Disconnect between culture and educational attainment
- Lack of role models (especially in the faculty and administrative ranks) on campus



"I got in trouble at school today.

I got an A on my test and they said it was unfair to the kids who didn't study as hard."

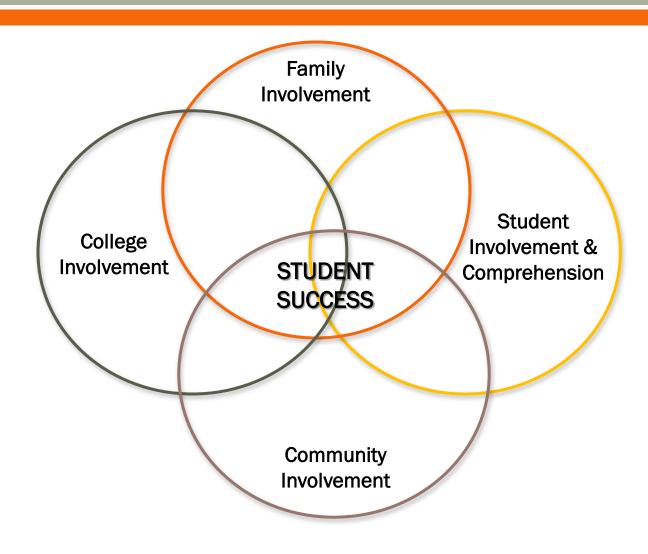
Additional Obstacles for Minorities

- Ineffective study habits
- Low expectations by faculty members
- Lack of college preparatory, honors or advanced courses in the secondary school environment
- Exclusion and/or racial discrimination at predominantly white campuses

FOUR ELEMENTS OF SUCCESS

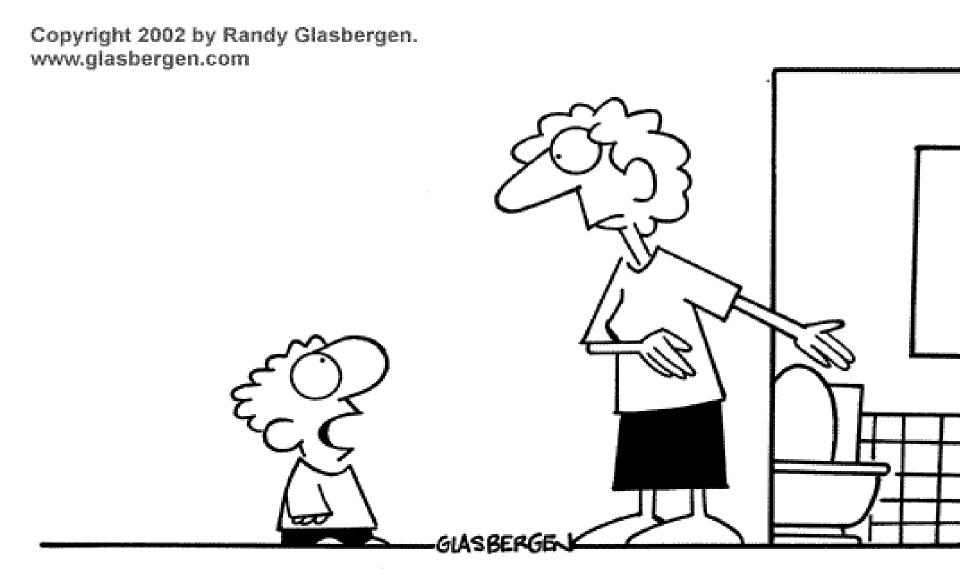
80 03

Four Elements of Success



Role Families Play

- Primary agents of socialization, perpetuating social class status, life-styles, values and cultural histories
- Primary agents for self-esteem and self-efficacy
- Primary care-givers
- Primary economic support, etc.



"Why do I need to learn potty training? Is it something I'll use later in life? Will it help me get into a good college? Do chicks dig guys who are potty trained?"

© Randy Glasbergen glasbergen.com

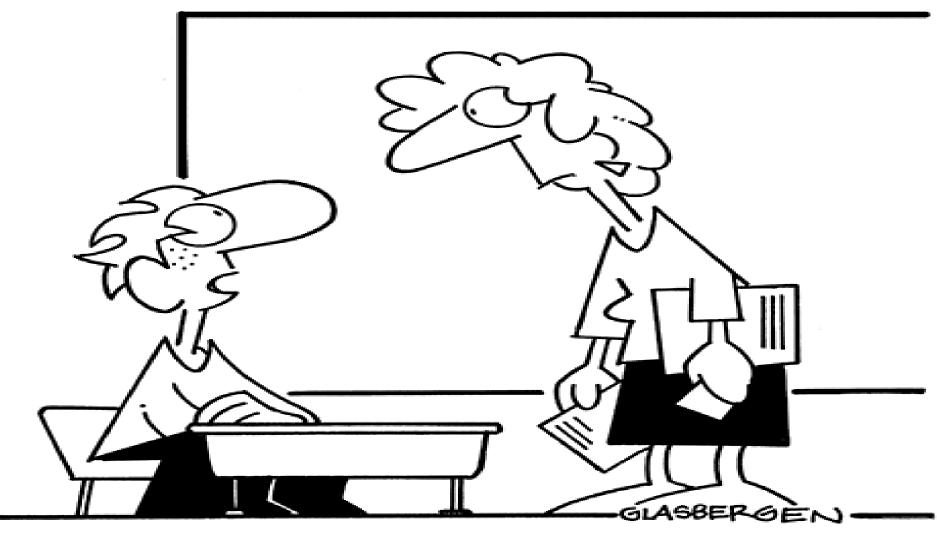


"Plan B: You get a job and we send your smartphone to college."

KEYS TO ACADEMIC SUCCESS

80 03

© Randy Glasbergen / glasbergen.com



"If I work hard, I'll get good grades. If I get good grades, I'll go to a top college, I'll get a great job. If I get a great job, I'll make a lot of money. If I make a lot of money, everyone will hate me. That's why I didn't do my homework."

Keys to Success

- Research by ACT has shown that at least three factors are related to academic success in college:
 - College readiness
 - A core curriculum in high school
 - Taking additional coursework beyond the minimum required in high school in the areas of mathematics and science

Copyright 2005 by Randy Glasbergen. www.glasbergen.com



"Success isn't as rewarding as it seems. Caesar was the greatest emperor who ever lived and they named a salad after him."

Principles of College Success

- Research on human learning and student development indicates four powerful principles of college success:
 - 1. Active Involvement
 - 2. Use of Campus Resources
 - 3. Interpersonal Interaction and Collaboration
 - 4. Personal Reflection and Self-Awareness (Astin, 1993; Kuh, 2000; Light, 2001; Pascarella & Terenzini, 1991, 2005; Tinto, 1993).

Active Involvement

- Research indicates active involvement may be the most powerful principle of human learning and college success. The principle of active involvement includes the following pair of processes:
 - The amount of personal time a student devotes to learning during the college experience
 - The degree of personal effort or energy (mental and physical) students put into the learning process

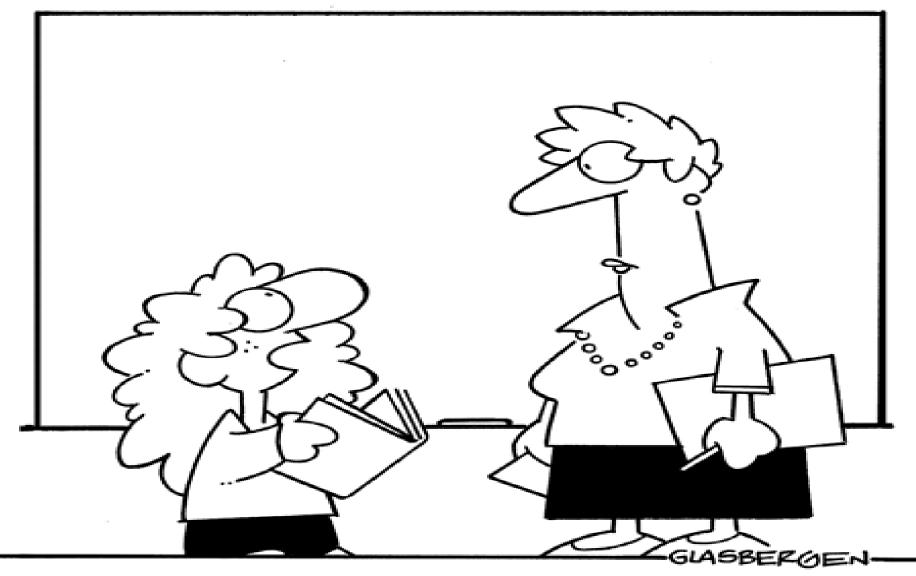
Student Success and Interpersonal Interaction

- Four particular forms of interpersonal interaction have been found to be strongly associated with student learning and motivation in college:
 - Student-Faculty Interaction
 - Student-Advisor Interaction
 - Student-Mentor Interaction
 - Student-Student Interaction

Student-Faculty Interaction

- Studies repeatedly show that college success is influenced heavily by the quality and quantity of student-faculty interaction outside the classroom. Such contact is positively associated with the following positive outcomes for college students:
 - Improved academic performance
 - Increased critical thinking skills
 - Greater satisfaction with the college experience
 - Increased likelihood of completing a college degree
 - Stronger desire to seek education beyond college (Astin, 1993; Pascarella & Terenzini, 1991, 2005).

© Randy Glasbergen / glasbergen.com



"Explain to me again why our ecology textbook is printed on dead trees."

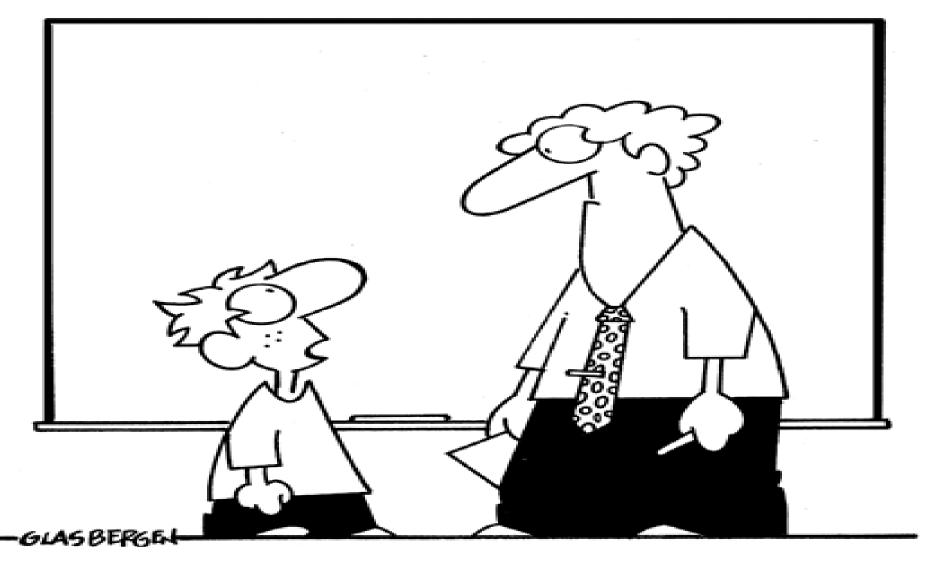
Student-Faculty Interaction

- Further, research studies demonstrate that students' success is heavily influenced by the quality and quantity of their interaction with faculty members *outside* of the classroom. More specifically, student-faculty contact outside of class is positively associated with the following student developments:
 - Improved academic performance
 - Increased critical thinking skills
 - Greater satisfaction with the educational experience
 - Stronger desire to further education beyond high school
 - Involvement in own academic and personal success
 - How students interpret messages received from family, school, and community
 - Making choices that are in the best interest of their success

Faculty Influences on Student Success

The relationship between students and faculty members is more important in predicting the social-emotional functioning of students than their academic performance (Decker, Dona, & Christenson, 2007).

@ Randy Glasbergen / glasbergen.com



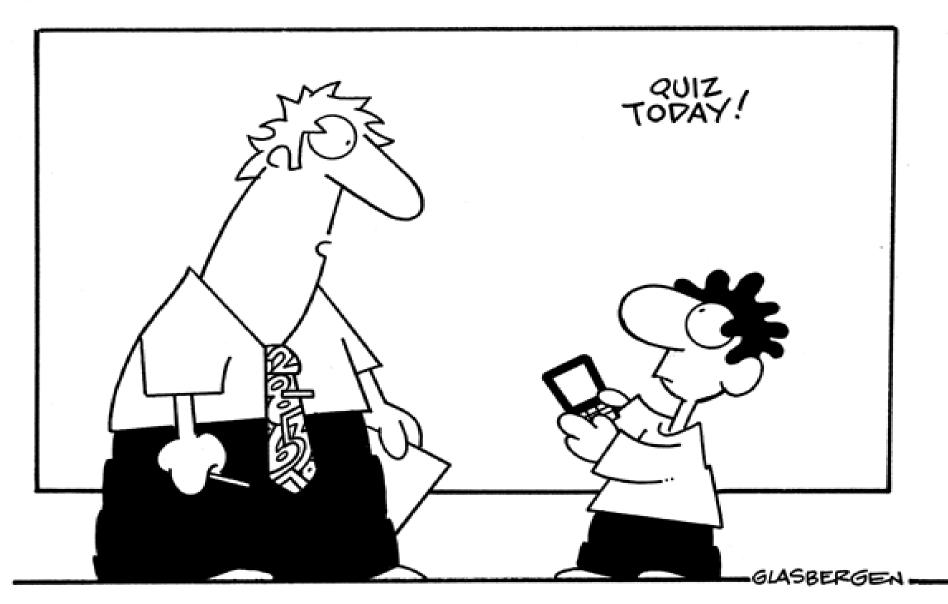
"If my mind wanders during class, think of me as part of a distance learning program."

Faculty Influences on Student Success

Informal interactions that take place outside of the classroom between students and faculty members have been found to have an effect on the motivation of students beyond the usual predictors of academic performance including performance in secondary school or academic aptitude (Pascarella & Terenzini, 2005; Pascarella, Terenzini, & Hibel, 1978).

Faculty Influences on Student Success

50 The first interactions with faculty members have a significant influence on the value placed on high academic achievement and can counteract the general student culture that does not typically value such achievement (Komarraju, Musulkin, & Bhattacharya, 2007).



"You have to attend classes. You can't just follow me on Twitter."

Student-Student Interaction

- Studies of college students repeatedly point to the power of the peer group as a source of social and academic support (Pascarella, 2005).
- Peer interaction is especially important during the first term of college. At this stage of the college experience, new students have a strong need for belongingness and social acceptance.

Student-Student Interaction

A study conducted by Light (2001) found that students who formed or participated in small groups was a strong determinant in their college success.

Students who participated in study groups once weekly were more engaged, showed increased class preparation, and learned significantly more than students who worked alone.

Self-Reflection

mportant step in achieving success in college

Involves self-assessment, self-monitoring, reflecting on feedback, and reflecting on the future

Self-Assessment

- Process of evaluating personal characteristics, traits, habits, and their relative strengths and weaknesses
- personal interests, personal values, personal abilities or aptitudes, learning habits, learning styles, personality traits, and academic self-concept (personal beliefs about what kind of student he/she is are and how they perceive him/herself as a learner)

© Randy Glasbergen www.glasbergen.com



"The college in Maine has a better curriculum, but the college in New York has better pizza."

Self-Monitoring

Maintaining an awareness of how effectively you are learning, if you are learning what you are attempting to learn, and what you are attempting to learn

Five Core Principles

- California Tomorrow has worked in the areas of equity, diversity, and inclusion for more than 25 years. They suggest five core principles of effective practice for academic success for the most vulnerable students.
- The principles they suggest have proven to be effective in increasing engagement and enthusiasm for learning, reducing anxiety and fear, increasing self-confidence, promoting a sense of purpose, and inspiring hope.

Foster Personal Connections

- Students most affected by inequities due to race, class, or immigrant experience often ascribe their success to meaningful, personal connections with faculty, staff, and fellow students.
- Personal connections are a critical component in students choosing to stay in college.
- In addition, when students feel empowered, respected, and connected they develop a capacity to concentrate and improve their thinking.

Provide Intrusive Supports

- Proactively seeking out students who need help rather than waiting for them to ask for it is critical to student success.
- Students may be adequately prepared to navigate their personal lives but suffer in academic settings and may not have a vested interest in seeking out programs that can help them succeed.
- The 2009 CSSE noted that colleges that successfully engage students do not merely have classes on campus and say "come here;" they go to students where they are literally, figuratively, and virtually.

Ground Teaching and Learning Students' Experiences

- By utilizing backgrounds of students in their learning experiences and respecting what those experiences bring to the classroom, faculty and staff allow students to find their own voices and make the most of their learning experiences.
- A well-balanced curriculum that includes contributions and representations of differing worldviews and a variety of cultures in addition to debate and critical dialogue better prepares students for the real world as informed and reflective citizens.

Build Student Agency

Building agency means students gain confidence to access and create support resources on campus and develop the capacity to become change agents who are better able to improve societal conditions.

Support Professional Learning and Inquiry

- Faculty professional learning and inquiry is a major component to student success and predecessor to curriculum revision.
- For transformational teaching to take place, capacity needs to be built of all faculty and staff to skillfully engage with students from all types of backgrounds, experiences, and academic readiness with greater success.



"My PowerPoint presentation went so well, I had it made into a tattoo!"