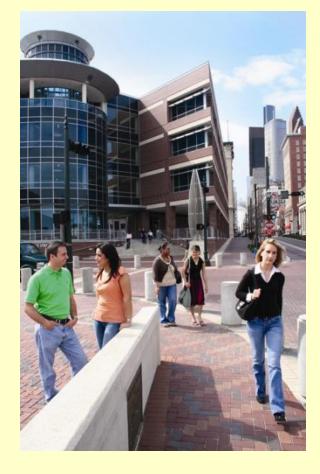
Student Success in College: The Promise of High-Impact Practices

George D. Kuh

Student Success Summit University of Houston September 12, 2011



The Major Tasks

Teach students to:

- Reflect on their experiences inside and outside the classroom
- Integrate see the connections between different classes, out-ofclass experiences, and life beyond the institution

Apply – use what one has learned in different settings presenting novel challenges and opportunities

What If...

- We imagined what our work would be like using what we know about how students learn and develop...?
- And we created optimum learning conditions inside and outside the classroom for all our students...?
- Then, how would you re-design your classroom? Program? Institution?
- What kinds of programs and services would we provide?

Ponder This

- What practices are you currently using that are promising?
- What additional effective practices might you use?
- What obstacles must be overcome to use effective educational practices more often in your classes?
- What else do you need to know and be able to do to better prepare your students for postsecondary success?



- What the world needs now
- Why student engagement matters
- High-impact practices
- Discussion

UNIVERSITY of HOUSTON

US Economy Defined by Greater Workplace Challenges <u>and</u> Dynamism

- More than 1/3 of the entire US labor force changes jobs ANNUALLY.
- Foday's students will have 10-14 jobs by age 38.
- Half of workers have been with their company less than 5 years.
- Every year, more than 30 million Americans are working in jobs that did not exist in the previous year.
 DOI-BLS

The World is Demanding More

There is a demand for more college educated workers.

There is also a demand that those educated workers have higher levels of learning and knowledge.

Employer expectations of employees have increased

% who agree with each statement

Our company is asking employees to **take on more responsibilities** and to **use a broader set of skills** than in the past

91%

Employees are expected to **work harder to coordinate with other departments** than in the past

90%

The **challenges** employees face within our company are **more complex today** than they were in the past

88%

To succeed in our company, employees need **higher levels of learning and knowledge** today than they did in the past

88%

Why the Need for Higher Levels of Learning?

- In a globalized knowledge economy, the capacity to drive innovation is the key strategic economic advantage
- Rapid scientific and technological innovations are changing the workplace and demanding more of all employees
- Global interdependence and complex crosscultural interactions increasingly define modern society and the workplace and call for new levels of knowledge and capability

Key Capabilities Open the Door for Career Success and Earnings

"Irrespective of college major or institutional selectivity, what matters to career success is students' development of a **broad set of cross-cutting capacities...**"

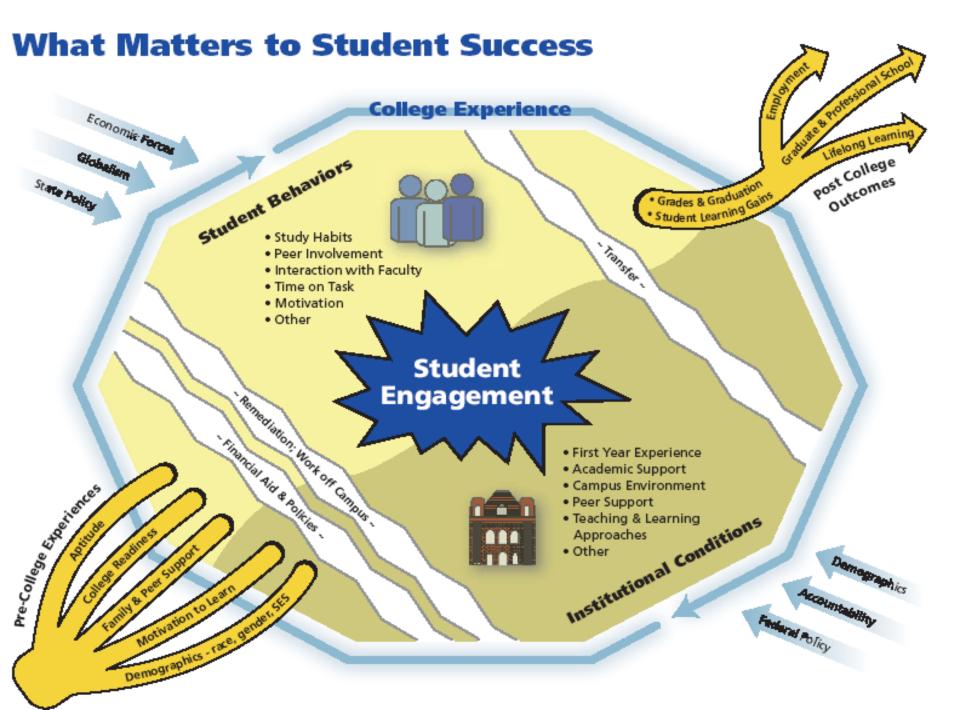
> Anthony Carnevale, Georgetown University Center on Education and the Workforce

Student Success

Academic achievement, engagement in educationally purposeful activities, satisfaction, acquisition of desired knowledge, skills and competencies, persistence, attainment of educational objectives, and post-college performance







Know Your Students

"Part of being a good teacher (not all) is knowing that you always have something new to learn – not so much about teaching techniques but about these particular students at this particular time and their particular set of aspirations, confusions, misconceptions, and ignorance" (Bain, 2004, p.174)

Factors That Threaten Persistence and Graduation from College

- academically underprepared for college-level work
- gap between high school and college
- part-time enrollment
- single parent
- financially independent
- children at home
- 30+ hours working per week
- first-generation college student

Student Success Quiz

Which group has the *lowest* expectations for student academic performance?

(a) students (b) peers(c) parents (d) teachers

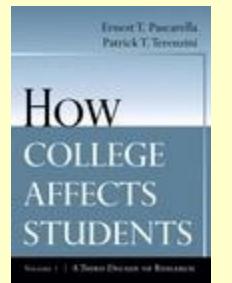
d. teachers

Principles for Strengthening Pre-College Preparation

- Expect that all underserved students are capable of being prepared to enroll and succeed in college.
- Provide a range of high-quality college preparatory tools for underserved students and their families.
- Embrace social, cultural, and learning style differences in developing learning environments and activities for underserved students.
- Involve leaders at all levels in establishing policies, programs, and practices that facilitate student transitions.
- Provide sufficient financial and human resources to enable underserved students to prepare for, enroll, and succeed in college.

 Assess policy, program, practice, and institutional effectiveness regularly.
 Source: Pathways to College Network – A Shared Agenda

What *Really* Matters to Learning: Student Engagement



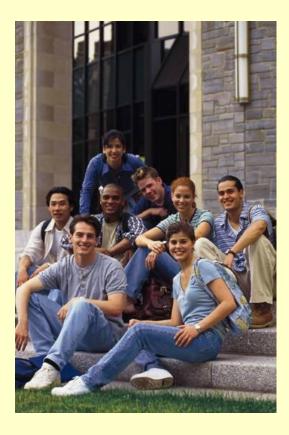
Because individual effort and involvement are the critical determinants of college impact, institutions should focus on the ways they can shape their academic, interpersonal, and extracurricular offerings to encourage student engagement.

Pascarella & Terenzini, 2005, p. 602

What the Research Says About High School Student Engagement

The more engaged students are, the less alienated from school they are and the higher their academic achievement.

(Norris, Pignal, & Lipps, 2003)



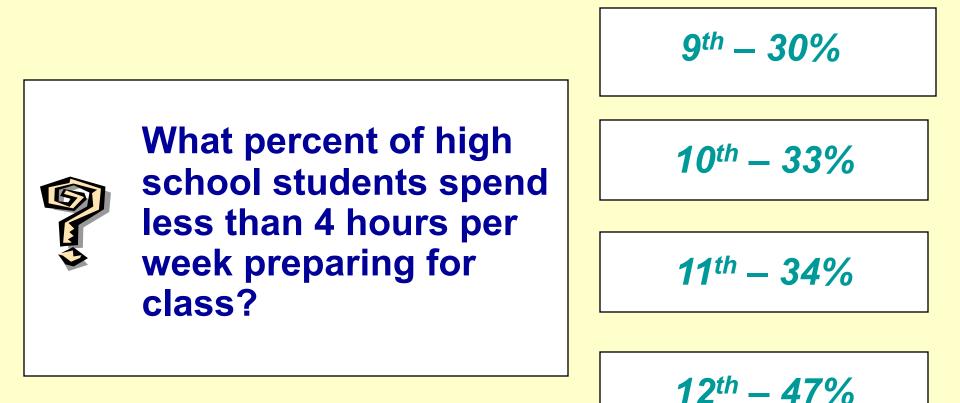
What the Research Says About High School Student Engagement

Engagement is linked to:

- Persistence
- Integration into school culture and participation in extracurricular activities
- A school climate supportive of achieving educational goals
- Various desirable outcomes



What do we know about high school engagement?



What do we know about high school engagement?



What percent of high school students go to class without completing readings or assignments? (very often and often combined) **9**th **- 22%**

More HS Engagement Findings

Seniors disengaged Average 1 hour of homework per night Passive learning dominates over active and collaborative learning



Quality (and *Effort*): More Important Than Quantity

Mind, Brain & Education Methods
Spaced repetition
Retrieval practice (*tests matter!*)
Cognitive disfluency
Interleaving



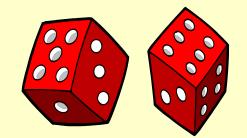
- Students generally expect more from the first year of college than they get. Why?
- In one key area -- study time -student expectations are much lower than we say is important.



Creating Conditions That Matter to Student Success



We can't leave serendipity to chance



Student Engagement Trifecta

- What students do -- time and energy devoted to educationally purposeful activities
- What institutions do -- using effective educational practices to induce students to do the right things

Educationally effective institutions channel student energy toward the right activities

Good Practices

- Student-teacher contact
- Active learning
- Prompt feedback
- Time on task
- High expectations



- Respect for diverse learning styles
- Cooperation among students

National Survey of Student Engagement (pronounced "nessie")

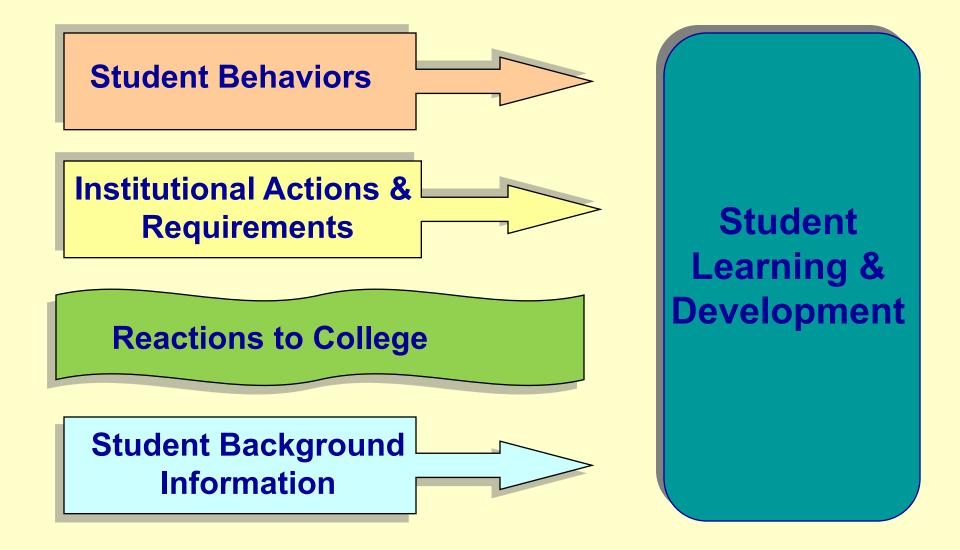
Community College Survey of Student Engagement (pronounced "cessie")





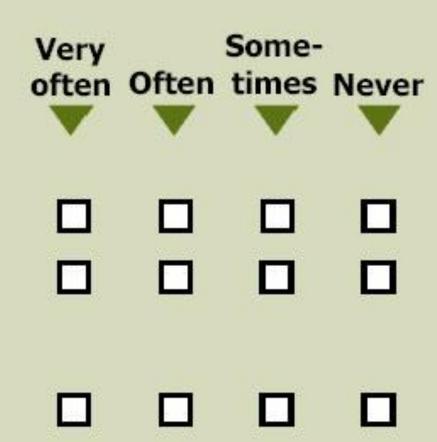
College student surveys that assess the extent to which students engage in educational practices associated with high levels of learning and development

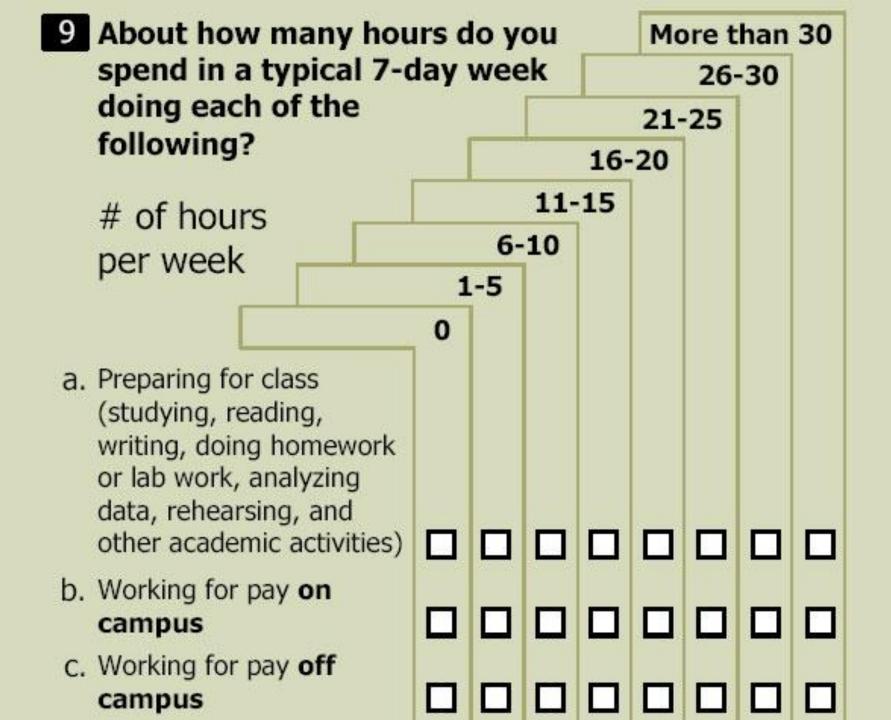
NSSE & CCSSE Questionnaires

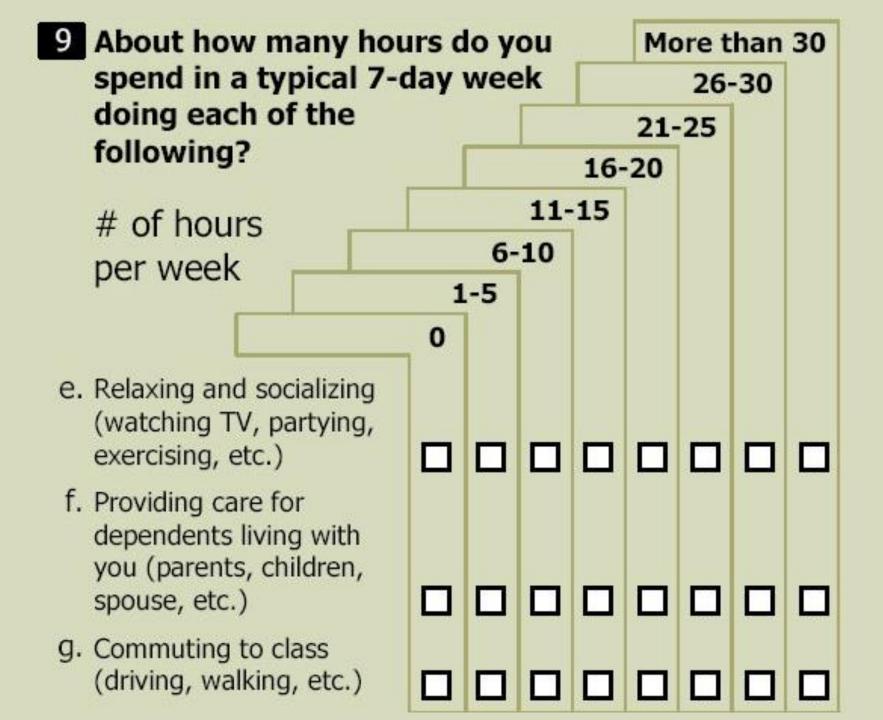


In your experience at your institution during the current school year, about how often have you done each of the following?

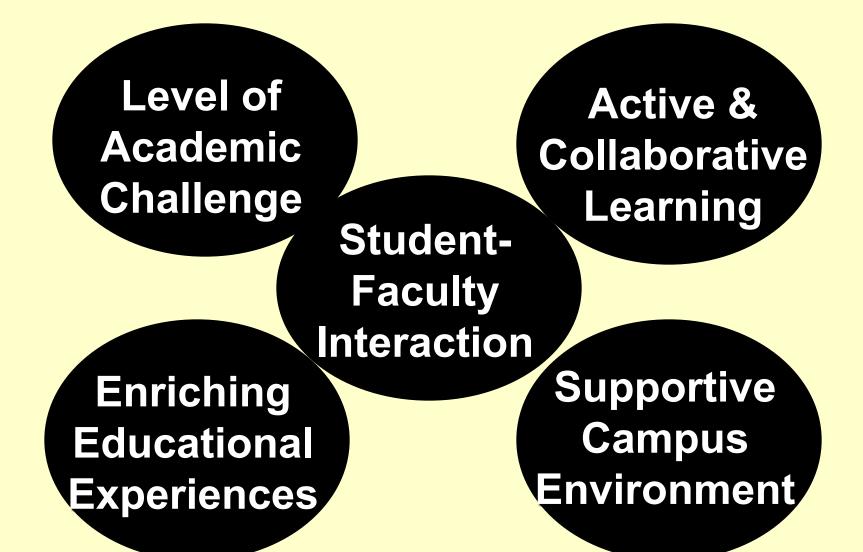
- Asked questions in class or contributed to class discussions
- b. Made a class presentation
- C. Prepared two or more drafts of a paper or assignment before turning it in







Effective Educational Practices



Grades, persistence, student satisfaction, gains across a range of desired outcomes, and engagement go hand in hand





It's more complicated than this...

Many of the effects of college are "conditional"

- Some are compensatory
- Some have unusually positive effects

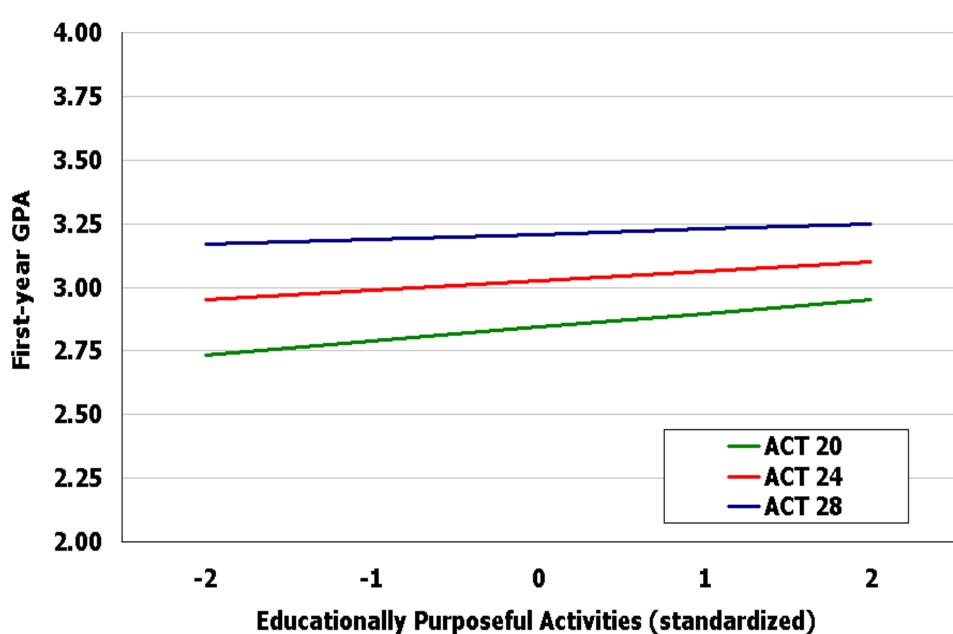


Who's (on average) more engaged?

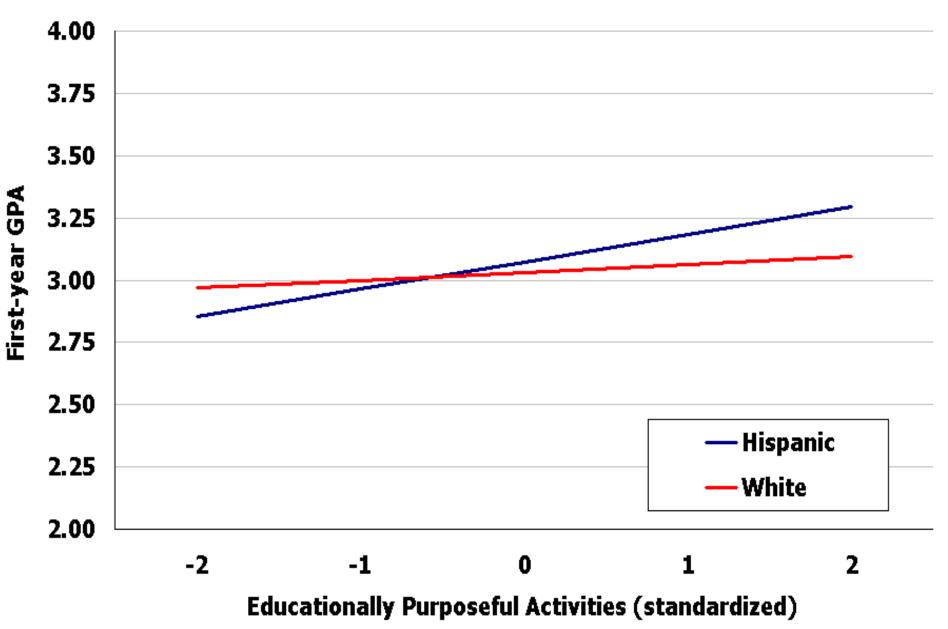
> Women

- Full-time students
- Students who live on campus
- Students with diversity experiences
- Students who start and stay at same school

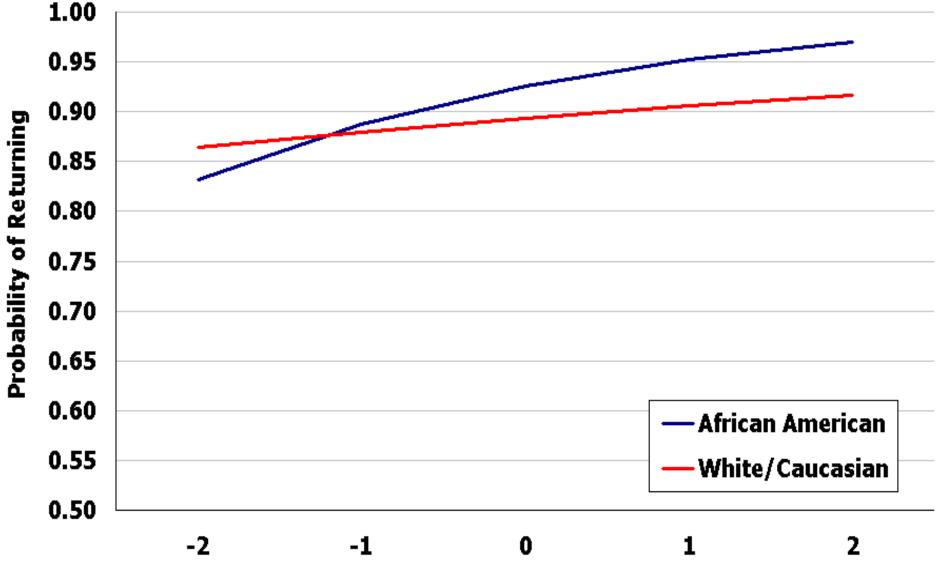
Impact of Educationally Purposeful Activities on First Academic Year GPA by Pre-College Achievement Level



Impact of Educationally Purposeful Activities on First Academic Year GPA by Race/Ethnicity



Impact of Educationally Purposeful Activities on the Probability of Returning for the Second Year of College by Race



Educationally Purposeful Activities (standardized)

Who's more engaged?

- > Women
- Full-time students
- Students who live on campus
- Students with diversity experiences
- Students who start and stay at same school
- Students who have done "highimpact" practices

LEAP

High-Impact Educational Practices

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WHAT THEY ARE, WHO HAS ACCESS TO THEM, AND WHY THEY MATTER

BY GEORGE D. KUH

WITH AN INTRODUCTION BY CAROL GEARY SCHNEIDER AND FINDINGS ON STUDENT SUCCESS FROM AAC&U'S LEAP INITIATIVE



LEAP

www.aacu.org



High-Impact Activities

- ★ First-Year Seminars and Experiences
- ★ Common Intellectual Experiences
- ★ Learning Communities
- ★ Writing-Intensive Courses
- **★** Collaborative Assignments and Projects
- * "Science as Science Is Done"; Undergraduate Research
- ★ Diversity/Global Learning
- Service Learning, Community-Based Learning
- ★ Internships
- ***** Capstone Courses and Projects

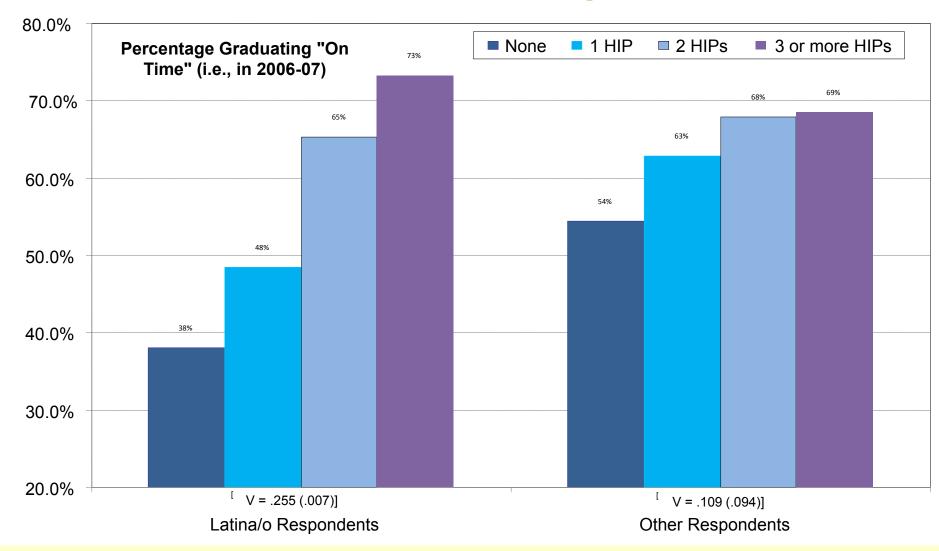


Effects of Participating in High-Impact Activities on Student Engagement

	Level of Academic Challenge	Active and Collab. Learning	Student- Faculty Interaction	Supportive Campus Env.
	First-Year			
Learning Communities	++	+++	+++	++
Service Learning	++	+++	+++	++
	Senior			
Study Abroad	++	++	++	+
Student-Faculty Research	+++	+++	+++	++
Internship	++	+++	+++	++
Service Learning	++	+++	+++	++
Culminating Experience	++	++	+++	++

+ p < .001, ++ p < .001 & Unstd B > .10, +++ p < .001 & Unstd B > .30

High-Impact Practices and Senior NSSE Respondents Graduating on Time



Source: Does Participation in Multiple High Impact Practices Affect Student Success at Cal State Northridge? by Bettina Huber (unpublished paper, 2010).

Employers assess the potential value of high-impact educational practices

% saying each would help a lot/fair amount to prepare college students for success

84% Students complete a significant project before graduation that demonstrates their depth of knowledge in their major AND their acquisition of analytical, problem-solving, and communication skills (62% help a lot)

- 81% Students complete an internship or community-based field project to connect classroom learning with real-world experiences (66%)
- 81% Students develop research skills appropriate to their field and develop evidence-based analyses (57%)

Students work through ethical issues and debates to form their own judgments (48%)



High-Impact Activities Increase Odds Students Will:

- Invest time and effort
 Interact with faculty and peers
 - about substantive matters
- Experience diversity
- Get more frequent feedback
- Reflect & integrate learning
- Discover relevance of learning through real-world applications

Impact of High-Impact Activities Enhanced When:

- Structure and expectations set at appropriately high levels
- Interact with faculty and peers about substantive matters
- Experience diversity
- Get more frequent feedback
- Reflect & integrate learning
- Discover relevance of learning through real-world applications
- Public demonstration of competence

Engaging Pedagogies and Practices

- **1.** Classroom organization
- 2. Early and continuing assignments requiring reflection and integration coupled with feedback
- 3. Use of peer preceptors/mentors
- 4. One minute papers (variations)
- 5. Case studies
- 6. Debates
- 7. Simulations
- 8. Small group problem sets
- 9. Others...

The Major Tasks

Teach students to:

- Reflect on their experiences inside and outside the classroom
- Integrate see the connections between different classes, out-ofclass experiences, and life beyond the institution

Apply – use what one has learned in different settings presenting novel challenges and opportunities

The things we have to learn before we do them, we learn by doing them.

Aristotle, Nicomachean Ethics





Now What?

- What practices are you currently using that are promising?
- What additional effective practices would you like to implement?
- What obstacles must be overcome to use effective educational practices more often in your classes?
- What else do you need to know and be able to do to better prepare your students for postsecondary success?



Questions & Discussion

