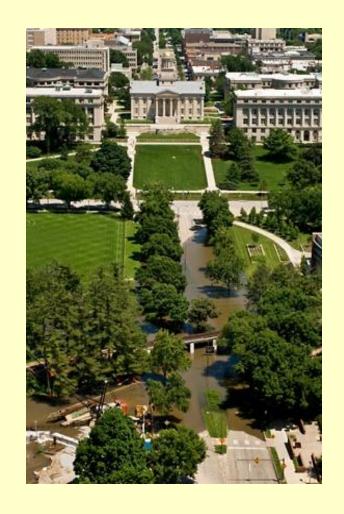
The Classroom: The Foundation for Student Success

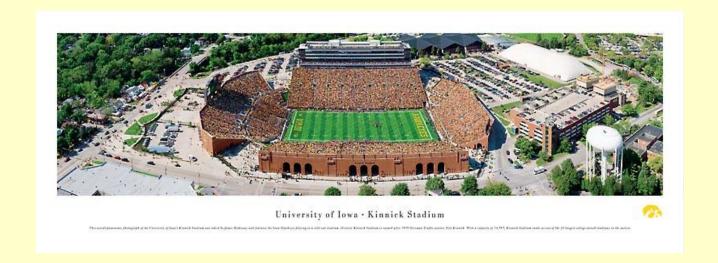
George D. Kuh

University of Iowa April 22, 2009



Context

- Global Competitiveness in Degree Attainment
- The New Majority and Demographic Gaps
- Questionable Levels of Graduate Achievement



Context

- Global Competitiveness in Degree Attainment
- The New Majority and Demographic Gaps
- Questionable Levels of Graduate Achievement
- In an Environment of Increasing Fiscal Strain...
- → We Need Higher Levels of Collegiate Achievement

Overview



- 21st century knowledge, skills and competencies
- Today's students
- Why engagement matters
- Implications for institutional policies and classroom practices

Advance Organizers

- To what extent do your students engage in productive learning activities, inside and outside the classroom?
- How do you know?
- What could we do differently -- or better -- to enhance student success?

Student Success in College

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







College Learning New Global Century

A REPORT FROM THE NATIONAL LEADERSHIP COUNCIL FOR

Liberal Education & America's Promise



Narrow Learning is Not Enough— The Essential Learning Outcomes



- Knowledge of Human Cultures and the Physical & Natural World
- **★ Intellectual and Practical Skills**
- ★ Personal and Social Responsibility
- ★ "Deep"/Integrative Learning



Deep/Integrative Learning

- Attend to the underlying meaning of information as well as content
- Integrate and synthesize different ideas, sources of information
- Discern patterns in evidence or phenomena
- Apply knowledge in different situations
- View issues from multiple perspectives

Today's Students

- Who are they?
- What are they telling us?





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)

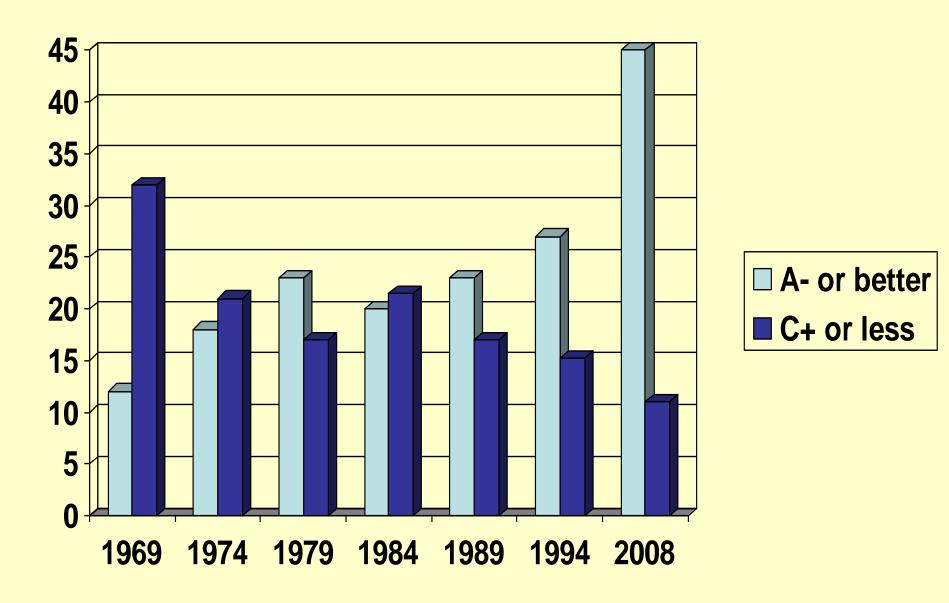
Students Today

An entitlement mentality





Trends in High School Grades



Students Today

- An entitlement mentality
- Cumulative deficit re: attitudes, study habits, academic skills



What to Do?!?

Student success requires that professors explain more things to today's students that we once took for granted –

"You must buy the book, you must read it and come to class, you must observe deadlines or make special arrangements when you miss one" Prof. Richard

Turner (1998, p.4)

Students Today

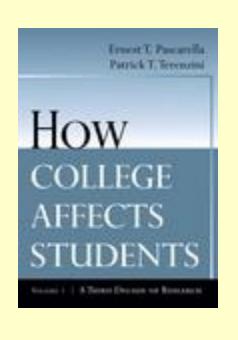


- More diverse than previous cohorts
- Techno-savvy "NetGens"
- Connected to family

Factors That Threaten Persistence and Graduation from College

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

What Really Matters in College: 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

Foundations of Student Engagement

Time on task (Tyler, 1930s)

Quality of effort (Pace, 1960-70s)

Student involvement (Astin, 1984)

Social, academic integration (Tinto, 1987, 1993)

Good practices in undergraduate education (Chickering & Gamson, 1987)

College impact (Pascarella, 1985)

Student engagement (Kuh, 1991, 2005)



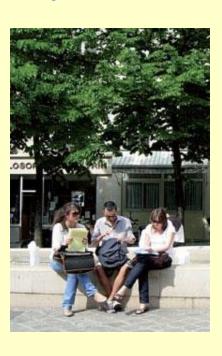
Student Engagement Trifecta

- 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 in Undergraduate Education

(Chickering & Gamson, 1987; Pascarella & Terenzini, 2005)

- ✓ Student-faculty 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

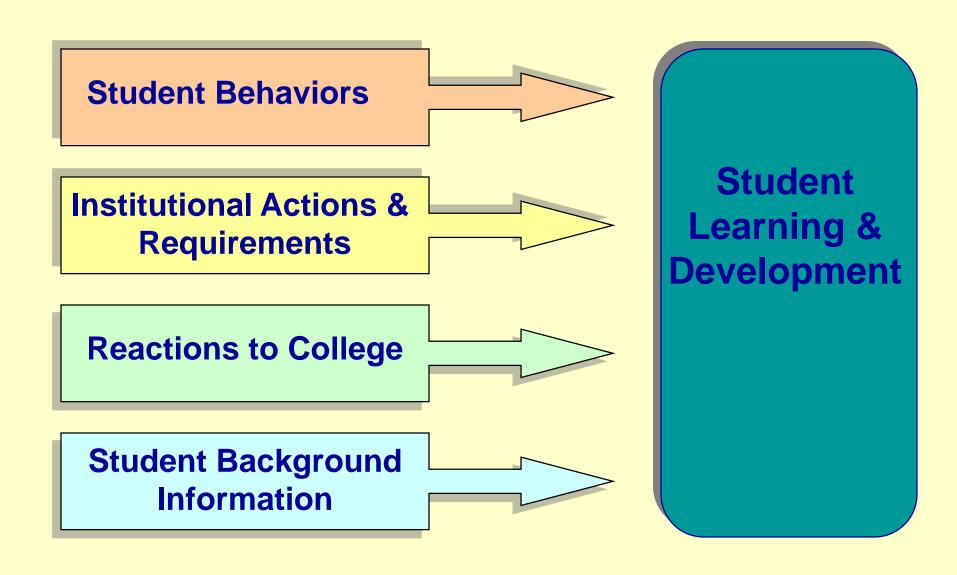
NSSE Project Scope

Since 2000:

- ✓ 2,000,000+ students from 1,334 different schools
- **√** 80+% of 4-yr U.S. undergraduate FTE
- **√** 50 states, Puerto Rico
- **√** 59 Canadian IHEs
- √100+ consortia



NSSE Questionnaire



Effective Educational Practices

Level of Academic Challenge

Active & Collaborative Learning

Student-Faculty Interaction

Enriching Educational Experiences

Supportive Campus
Environment











Grades, persistence, student satisfaction, and engagement go hand in hand





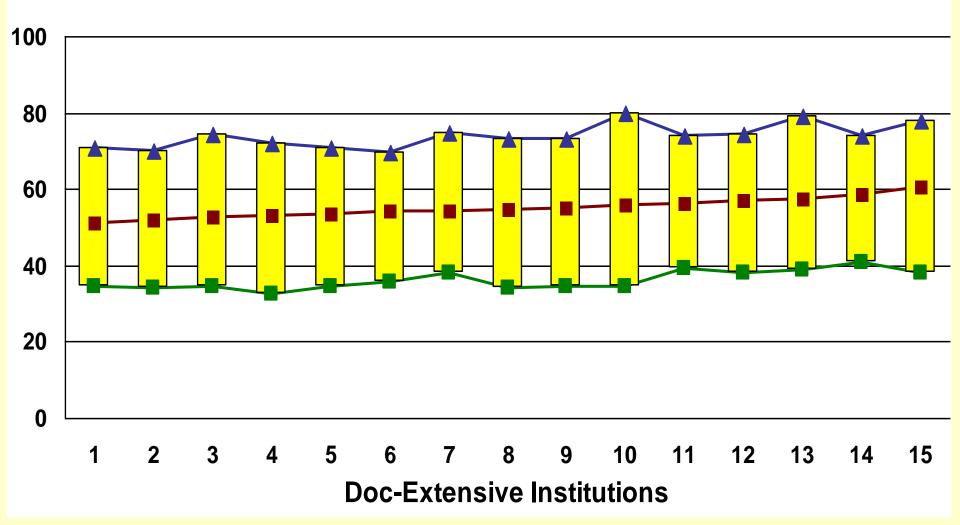
Student engagement varies more *within* than between institutions.



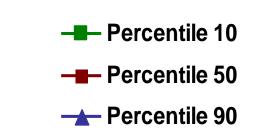
Level of Academic Challenge: Seniors at Doc-Extensive Schools

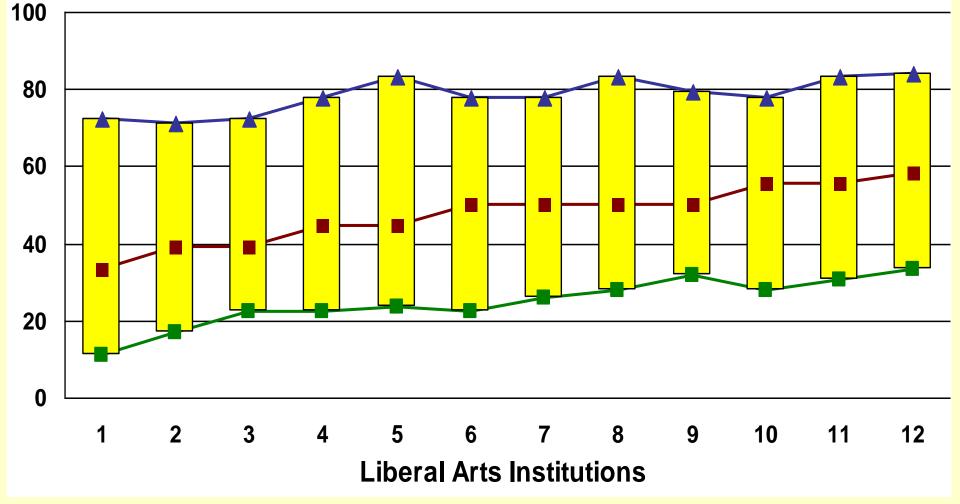




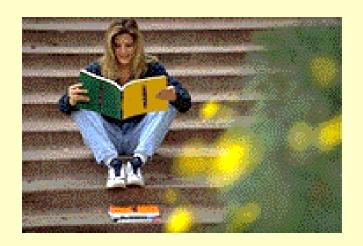


Student-Faculty Interaction: First-Year Students at Liberal Arts Institutions









Worth Pondering



How do we reach our least engaged students?

It's more complicated than this...

➤ Many of the effects of college are "conditional"

Some are compensatory

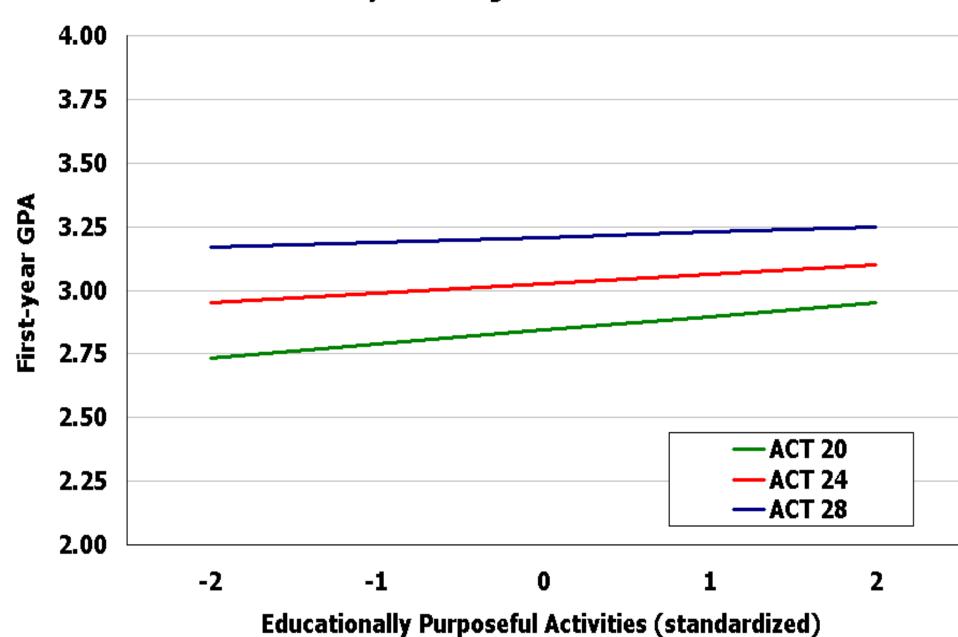




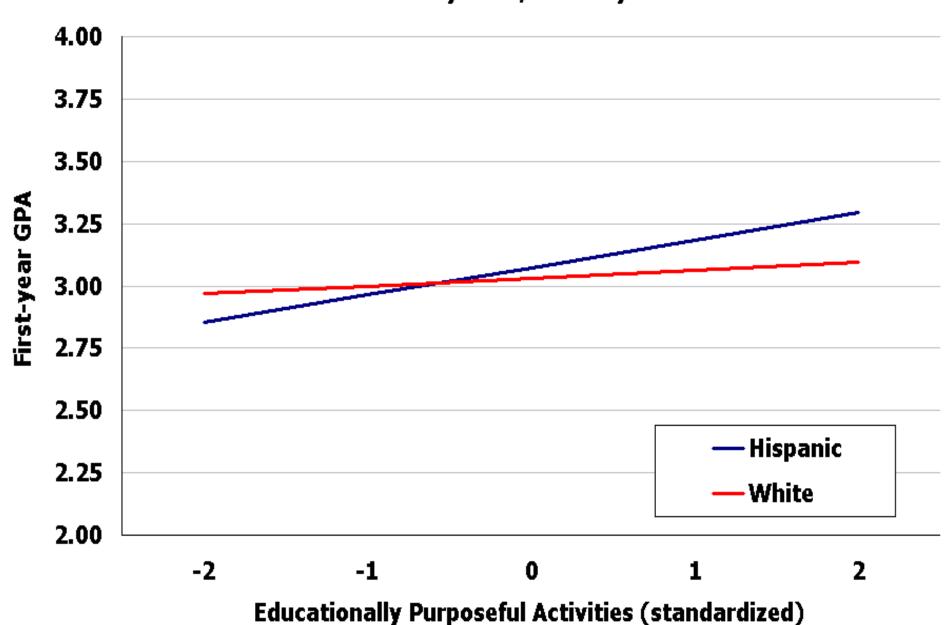
NSSE: Who's more engaged?

- Women
- Fraternity & sorority members
- Full-time students
- Students who live on campus
- Students with diversity experiences
- Students who start and stay at the same school

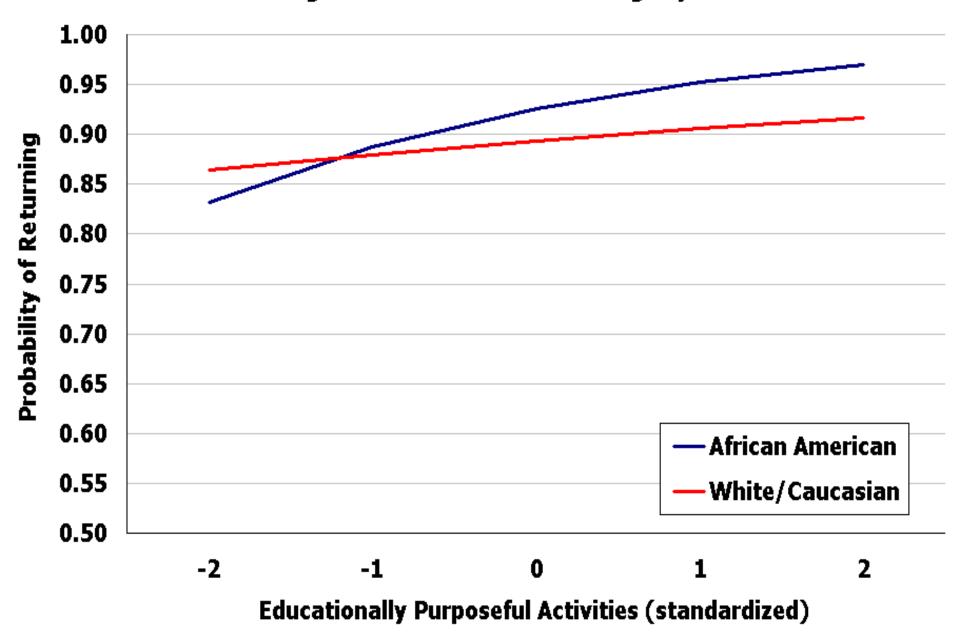
Impact of Educationally Purposeful Activities on First Academic Year GPA by Pre-College Achievement Level



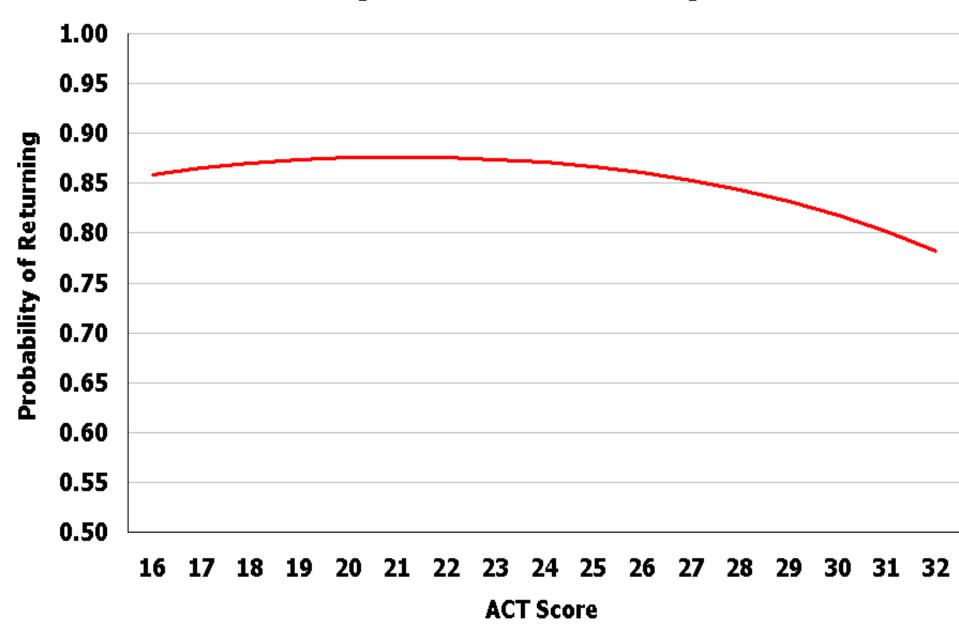
Impact of Educationally Purposeful Activities on First Academic Year GPA by Race/Ethnicity



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



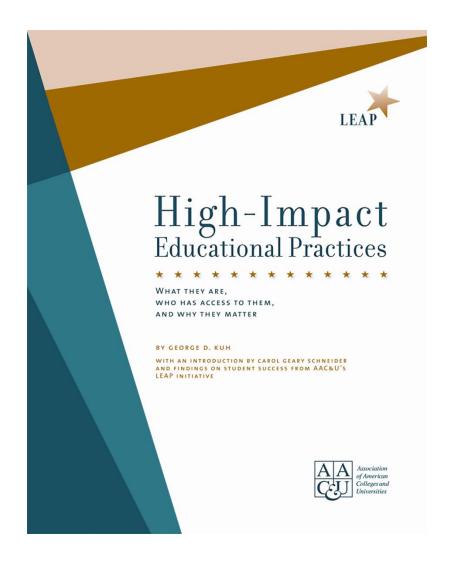
Impact of Pre-College Achievement Level on Probability of Returning for the Second Year of College



Who's more engaged?

- Women
- Fraternity & sorority members
- > 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





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





Essential Learning OutcomeNSSE Deep/Integrative Learning

- Integrating ideas or information from various sources
- Included diverse perspectives in class discussions/writing
- Put together ideas from different courses
- Discussed ideas with faculty members outside of class
- Discussed ideas with others outside of class
- Analyzing the basic elements of an idea, experience, or theory

- Synthesizing & organizing ideas, info., or experiences
- Making judgments about the value of information
- Applying theories to practical problems or in new situations
- Examined the strengths and weaknesses of your own views
- Tried to better understand someone else's views
- Learned something that changed how you understand an issue

Faculty Survey of Student Engagement

(pronounced "fessie")

FSSE measures faculty expectations and activities related to student engagement in effective educational practices



Course Emphasis



FACULTY report very much or quite a bit of emphasis on memorizing

Lower Division

Upper Division

28% / 19%

1st yr. Students

Seniors



STUDENTS report very much or quite a bit of emphasis on memorizing

73% / 62%

Effects of Participating in High-Impact Practices on Deep/Integrative Learning and Gains

	Deep	Gains	Gains	Gains
	Learning	General	Personal	Practical
	First-Year			
Learning Communities	+++	++	++	++
Service Learning	+++	++	+++	++
	Senior			
Study Abroad	++	+	++	
Student-Faculty Research	+++	++	++	++
Internship	++	++	++	++
Service Learning	+++	++	+++	++
Senior Culminating Experience	++	++	++	++

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

Effects of Participating in High-Impact Practices 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	++	+++	+++	++
Senior Culminating Experience	++	++	+++	++

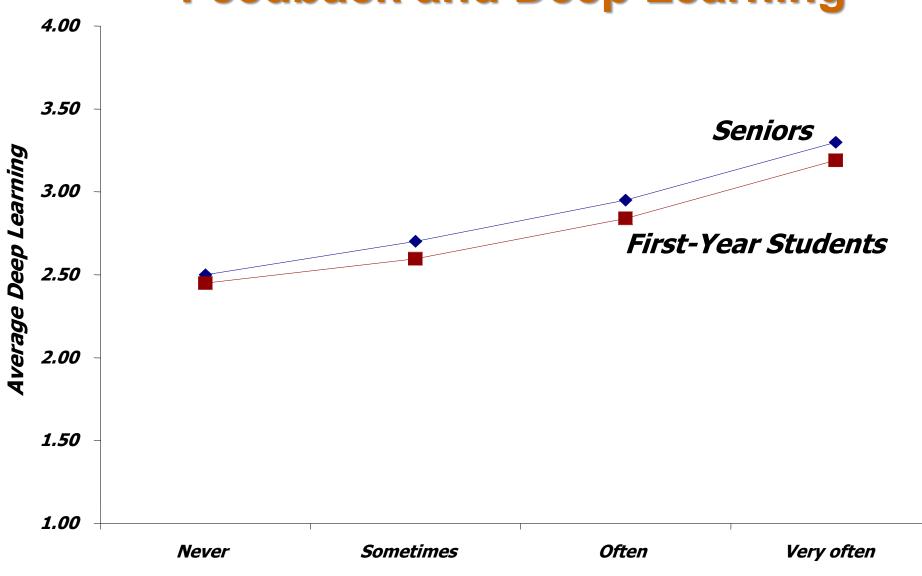
⁺ p < .001, ++ p < .001 & Unstd B > .10, +++ p < .001 & Unstd B > .30

High-Impact Practices Increase Odds Students Will:

- ✓ Invest time and effort
- ✓ Interact with faculty and peers about substantive matters
- Experience diversity
- ✓ Get more frequent feedback



Feedback and Deep Learning



Frequency of Prompt Feedback from Faculty

Prompt Feedback



FACULTY gave prompt feedback often or very often

Lower Upper Division Division

83% / 85%

FNTS received prompt

STUDENTS received prompt feedback often or very often

1st yr. Seniors

47% / 56%

High-Impact Practices 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



High-Impact Practices and the Disparities Within...

Frosh: Service Learning and LCs

- ✓ Parity among racial/ethnic groups
- √ Fewer 1st gen students
- ✓ Fewer part-time students
- ✓ Fewer transfer students
- ✓ Fewer older students

High-Impact Practices and the Disparities Within...

Seniors in All HIPs

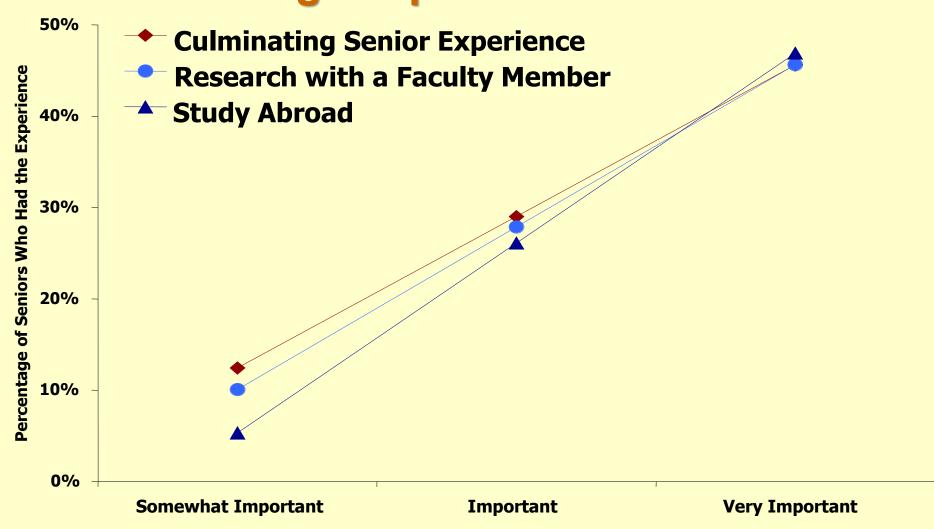
- ✓ Fewer 1st gen students
- ✓ Fewer students of color
- ✓ Fewer transfer students
- ✓ Fewer part-time students
- ✓ Fewer older students

Assessing Student Engagement in High-Impact Practices

To what extent does your institution provide these experiences? $[\sqrt{\ }] = \text{have on campus}; \sqrt{\ }] = \text{required}; \text{ estimate the } \% \text{ of various student populations in these activities}]$

	Learning	First Year Seminars	Research w/
	Community		Faculty
On Our Campus			
Required for all			
% Students involved			
% First Generation			
% Transfer Students			
% African American			
% Latino Students			
% Asian American			
% other			
% Adult Students			

Senior Participation in High Impact Activities



Average Importance Faculty Placed on the Experience

NSSE and FSSE Data

Faculty Priorities and Student Engagement

	AVG STUDENT			
AVG FACULTY	Academic challenge	Active- collab	Diversity experiences	Student - faculty
Academic challenge emphasis	✓	✓	✓	
Active-collab practices	✓	\checkmark	✓	✓
Emphasis on diversity experiences	✓	✓	✓	
Emphasis on higher order thinking	✓	✓	✓	
Importance enriching	✓	✓		✓

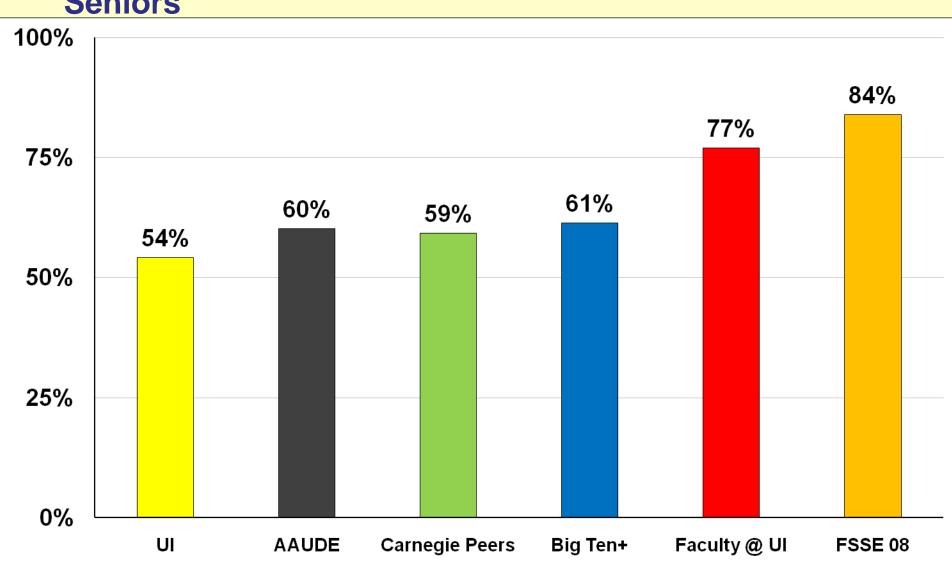
educ experiences

What to Make of This?

- When faculty members emphasize certain educational practices, students engage in them to a greater extent than their peers elsewhere.
- Good things go together
- > Teacher-scholars matter

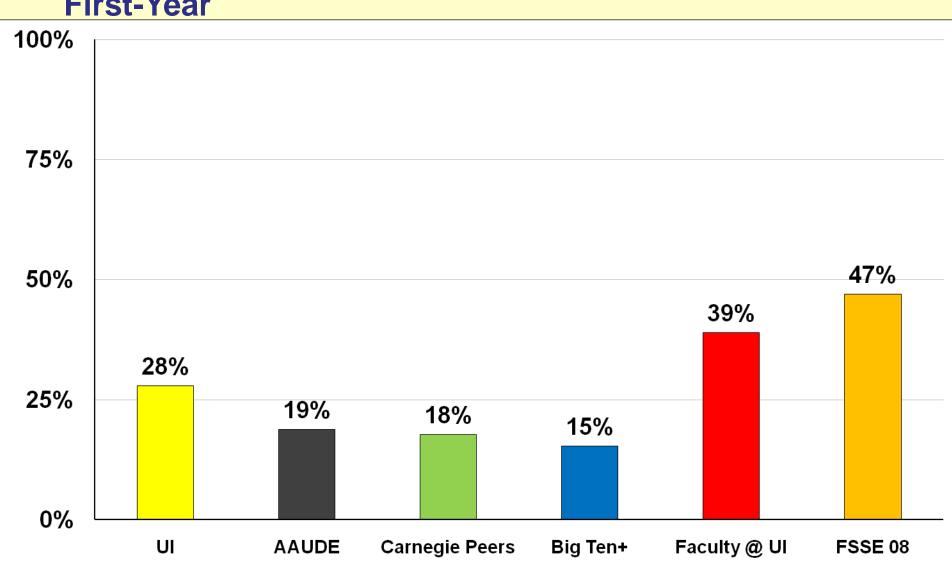


Practicum, internship, field experience, co-op experience, or clinical assignment

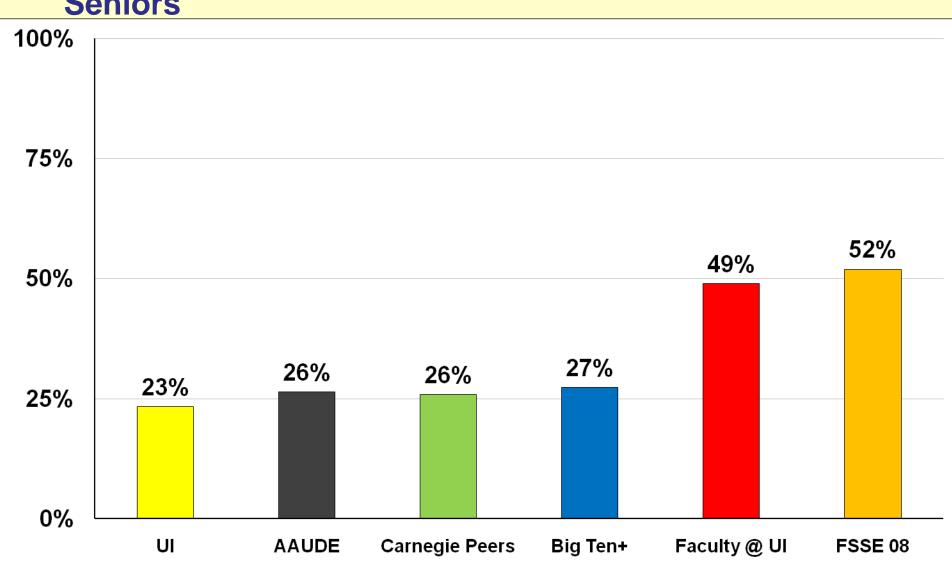


Learning community

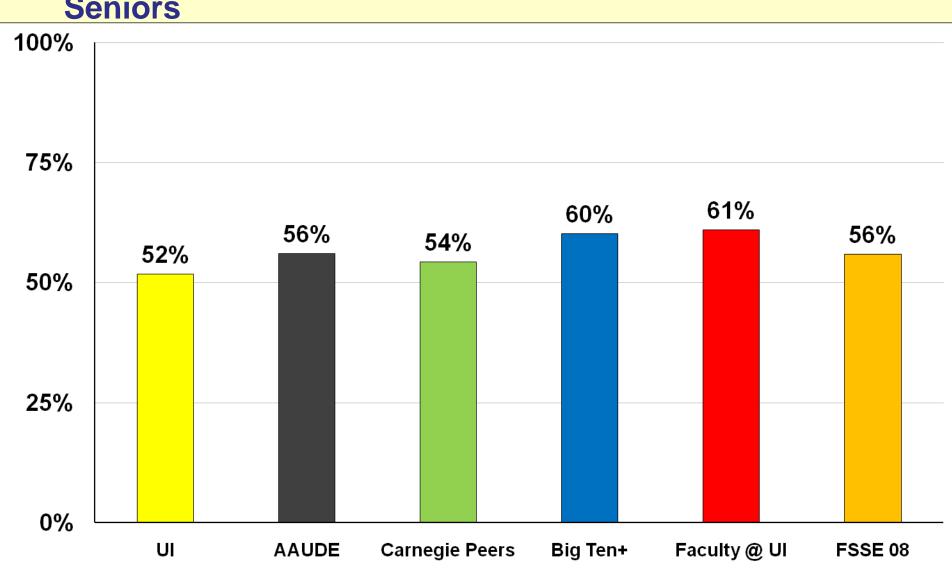
First-Year



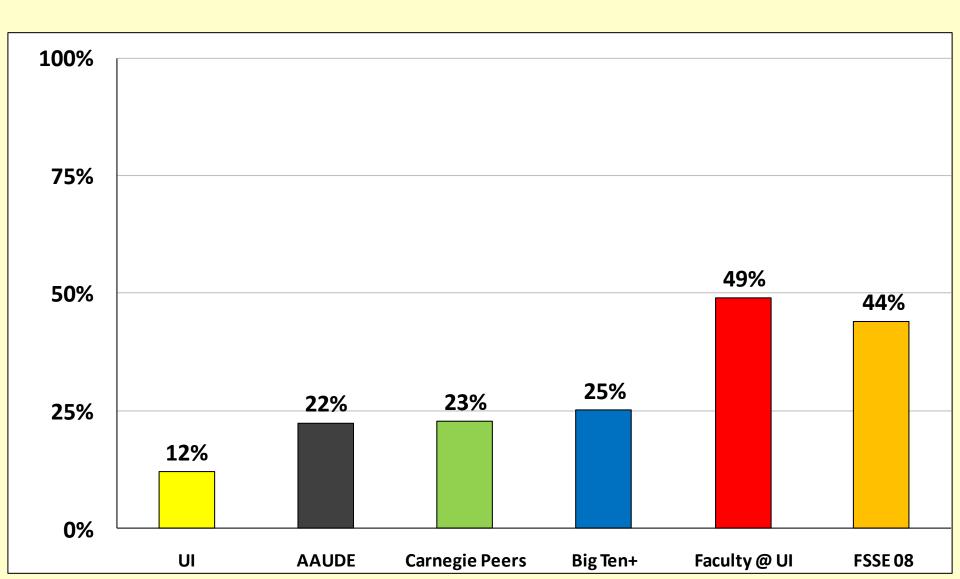
Research project with a faculty member outside of course requirements



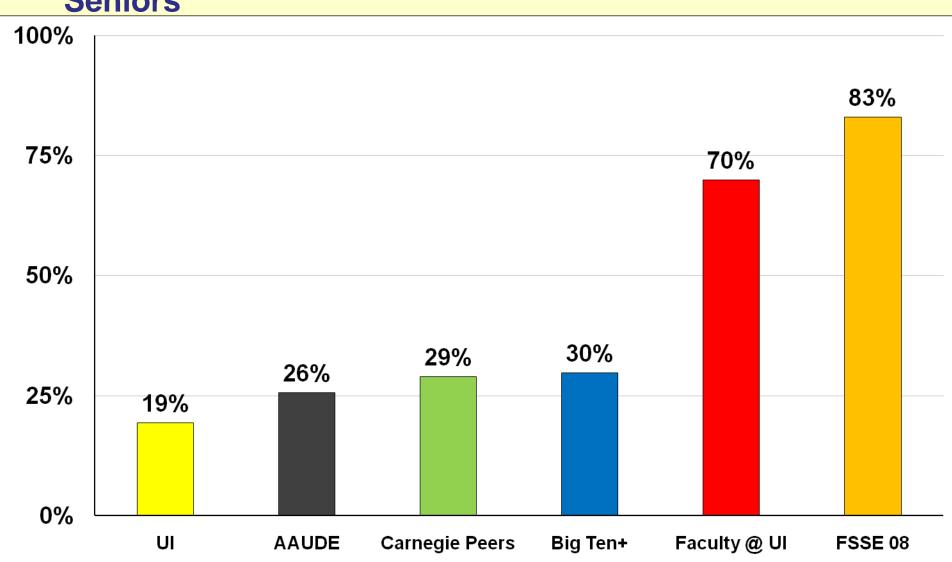
Foreign language coursework



Study abroad



Culminating senior experience (capstone course, senior project/thesis, comp exam)



If We Could Do Four Things...

- 1. Make the classroom the locus of community building
- 2. Use engaging pedagogies campuswide



Classroom Engaging Pedagogies

- 1. One minute papers (variations)
- 2. Case studies
- 3. Debates
- 4. Small group problem sets...
- 5. Others





If We Could Do Four Things...

3. Make it possible for every student to do at least one "high-impact" experience in the first year and another later linked to the major



If We Could Do Four Things...

4. Ensure programs are of high quality.

What is your evidence for effectiveness?



Last Word

- We cannot change the lineage of our students.
- Campus cultures do not change easily or willingly.
- But we can counter both by using promising policies and practices more consistently throughout the institution to increase the odds that students will succeed.
- Do we have the will to do so?

Adler Building at night. Photo: Tom Langdon, UI Foundation.

Questions & Discussion



Comparison of Distance Education and Campus-Based Learners

Gains		
	First-Year	Senior
Practical competence	+	+
Personal & social devlpmt	+	+
General education	=	+

Satisfaction

Comparison of Distance Education and Campus-Based Learners

Deep Learning

	First-Year	Senior
Higher-order learning	=	+
Integrative learning	=	=
Reflective learning	+	+