



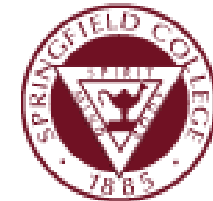
Institutional Research in Support of First Year Experiences



Springfield College

Mary Ann Coughlin

Jerold Laguilles



University of Maryland

Michelle Appel

Pam Phillips



Outline

- Two Case Study Examples of how IR can support initiatives for First Year Experience.
 - ✓ Each case study will share context of their role in this work and share the various approaches that they have used to inform institutional planning and the understanding of first-year retention.
 - ❖ Springfield College
 - ❖ University of Maryland
 - ✓ Compare and Contrast the role of IR in these two very different settings
 - ✓ Questions and Discussion / Sharing of Other Experiences

Springfield College

➤ Context:

✓ Mission:

- ❖ To educate students in spirit, mind and body for leadership in service to others.

✓ Institution is:

- ❖ Committed to the mission
- ❖ Very student centered

✓ Other Factors:

- ❖ Preparing for NEASC Reaccreditation
- ❖ Focus on Outcomes Assessment
- ❖ Creation of new Coordinator of Institutional Research Position



Key Elements

- Three key factors led to our work with First Year Experiences and have guided the focus of our work with this project.
 - ✓ NEASC Self-Study – Process and Outcomes
 - ✓ First Year Experience Task Force
 - ✓ Support of Outcomes Assessment at the Institutional level
 - ❖ Development and Assessment of Outcomes
 - ❖ Internal and External Comparisons
 - ❖ Bench Marking

Springfield College

Assessing the First-Year Experience

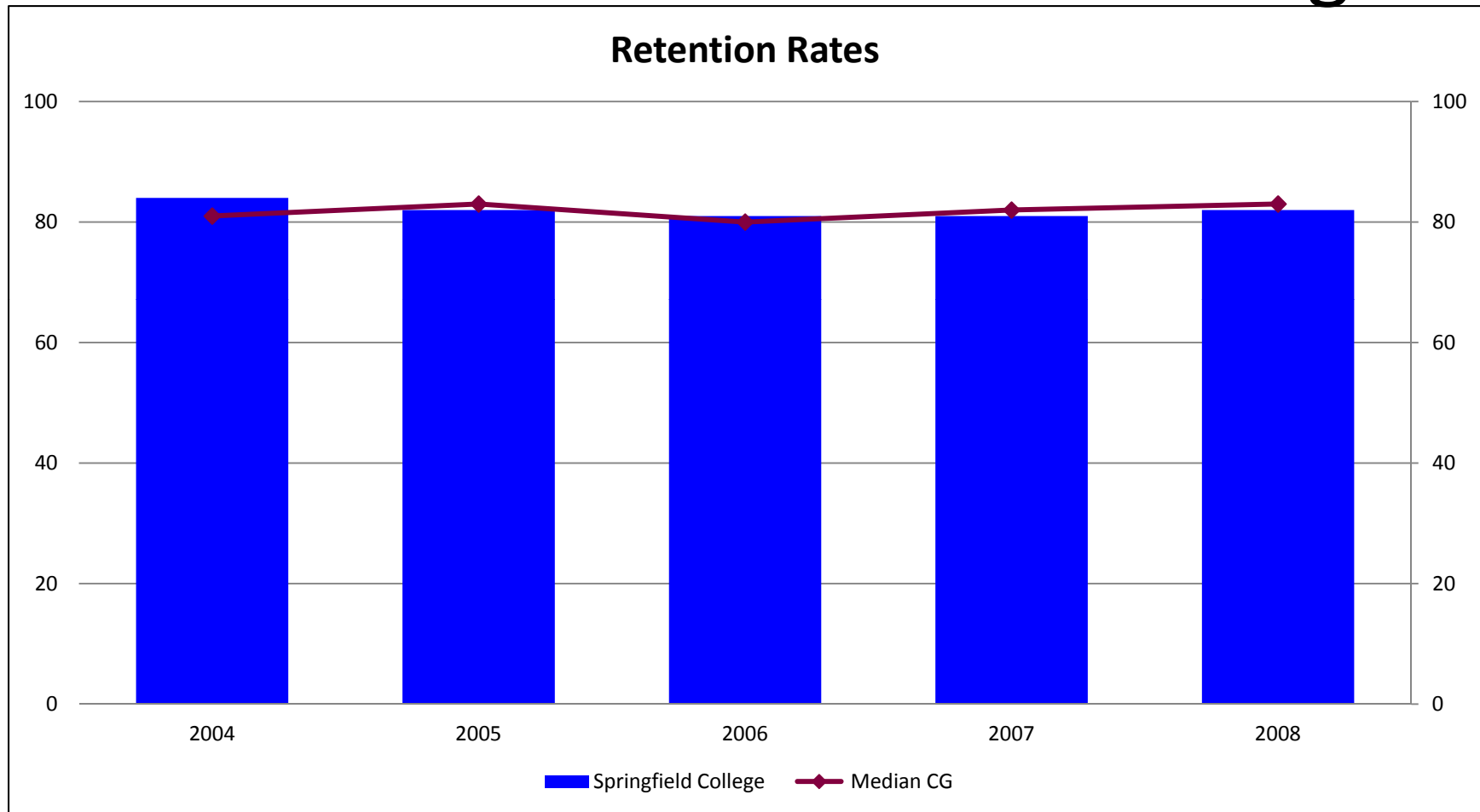
1. SC Retention Data

- Benchmarking with Peers
- Institutional-specific sub-cohorts

2. FYE Task Force

- Mapping Outcomes to FYE Preliminary Analysis Outcomes (Institutional Data, NSSE)

Retention – IPEDS Benchmarking

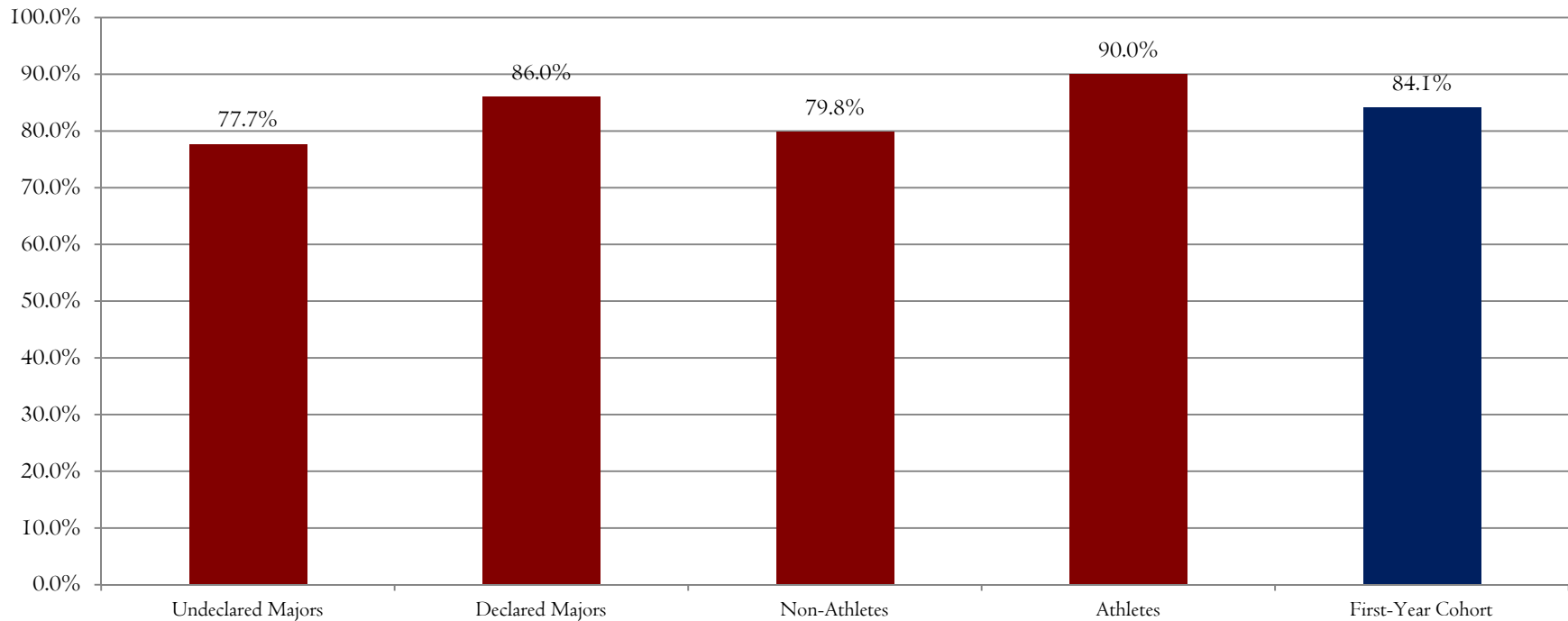


Notes: Retention rate is calculated as the percent of the fall first-time full-time cohort from the prior year that re-enrolled at the institution in the next fall; (Source: IPEDS)

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SC Sub-Cohorts: First-year Athletes & Undeclared Majors

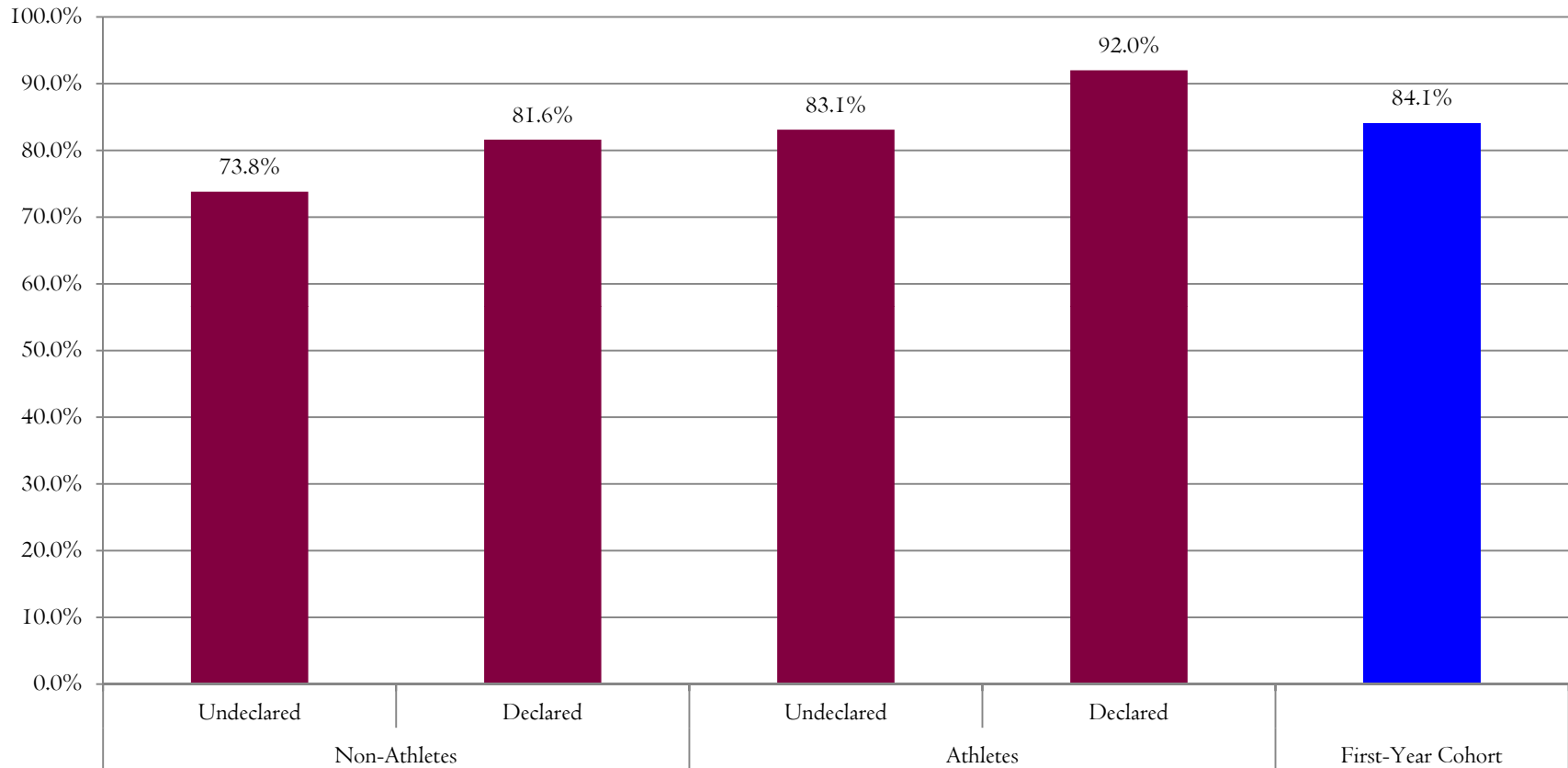
Retention Rates
Fall 2008 cohort



	First-Year Cohort	Athletes	Non-Athletes	Declared Majors	Undeclared Majors
Number Returning	519	234	285	411	108
Number in Entering Cohort	617	260	357	478	139
Retention Rate	84.1%	90.0%	79.8%	86.0%	77.7%

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Retention Rates: Athlete Status by Declared Major Status



	First-Year Cohort	Athletes		Non-Athletes	
		Declared	Undeclared	Declared	Undeclared
Number Returning	519	185	49	226	59
Number in Entering Cohort	617	201	59	277	80
Retention Rate	84.1%	92.0%	83.1%	81.6%	73.8%

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FYE Task Force

First-Year Experiences Examples	Outcomes Examples
<p>Pre-First-Year</p> <ul style="list-style-type: none">•Open House•SOAR (Summer Orientation, Advising, Registration)•Pre-Camp•New Student Orientation <p>First-Year Co-Curricular</p> <ul style="list-style-type: none">•First-year programming•Family & Friends Weekend•On-Campus Employment•Athletics•Student Leadership Positions•Intramurals <p>First-Year Academic</p> <ul style="list-style-type: none">•First Year Seminar•Academic Advising•Academic Success Center	<p>Student Retention</p> <ul style="list-style-type: none">•Return as sophomore next Fall <p>Academic Achievement/Intellectual Development</p> <ul style="list-style-type: none">•Academic Progress (G.P.A.)•Communicate effectively in both written and oral form (NSSE) <p>Leadership Development</p> <ul style="list-style-type: none">• Engage in group activities that require teamwork, self-understanding, and taking initiative <p>SC Values and Traditions</p> <ul style="list-style-type: none">• Develop an understanding and appreciation for the College Mission <p>Emotional Development</p> <p>Social Development</p> <p>Ethical Development</p> <p>Physical Development</p> <p>Spiritual Development</p>

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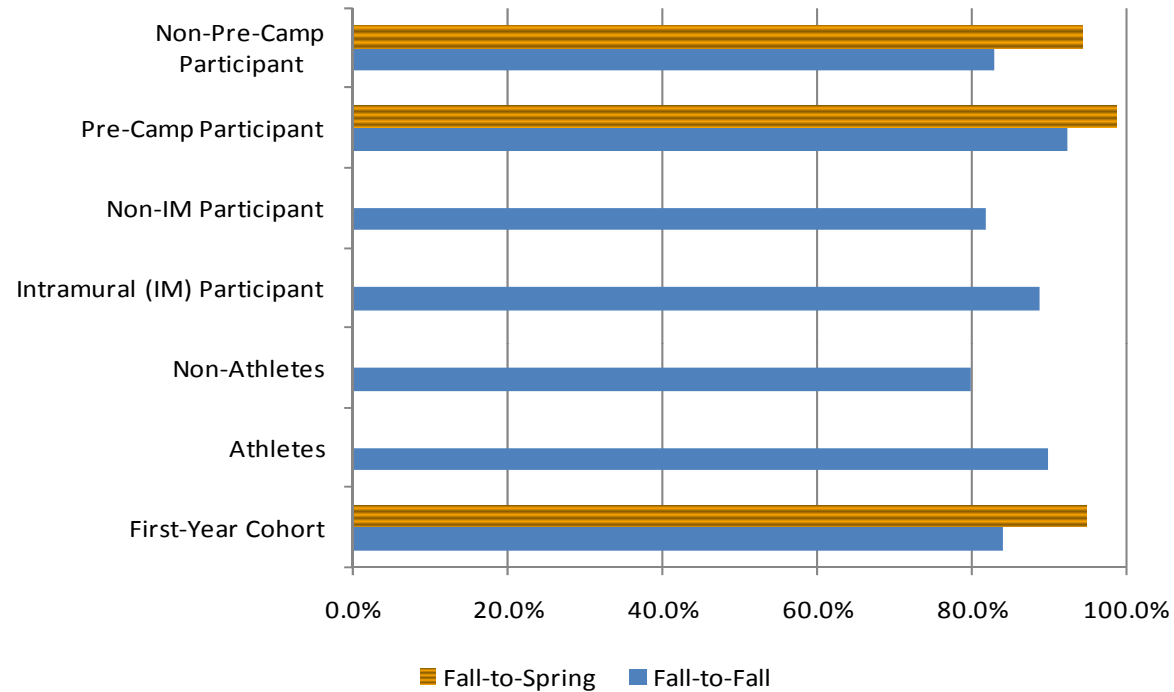
FYE/Outcomes Matrix

Please place a "+" for items that are a **Major Focus**
Please place a "-" for items that are a **Minor Focus**

	Open House [programmatic]	SOAR [programmatic]	Pre-Camp [programmatic]	Cultural Connections [programmatic]	New Student Orientation [programmatic]	Welcome Week A	Club Fair/	Fir
Student Retention								
Remain enrolled during the Fall term	+	+	+	+		+		+
Re-enroll in the Spring Term	+	N	-	-		-		+
Return as sophomores in next Fall term	-	N	-	-		-		-
Student completes educational goal (e.g. degree)	N	-	-	N		N		N
Academic Achievement / Intellectual Development								
Achieve Academically -- Academic Progress	N	-	N	N		N		+
Communicate effectively in both written and oral form	N	N	-	-		N		N
Develop ability to think critically	N	N	-	+		N		-
Learn to interpret information, and to develop well-reasoned conclusions	N	N	-	+		N		-
Student was prepared for future goals / career	+	-	N	N		N		N
Awareness of academic support and resources	+	-	-	N		N		+

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Fall 2008 Cohort Retention Rates: Selected Student Involvements

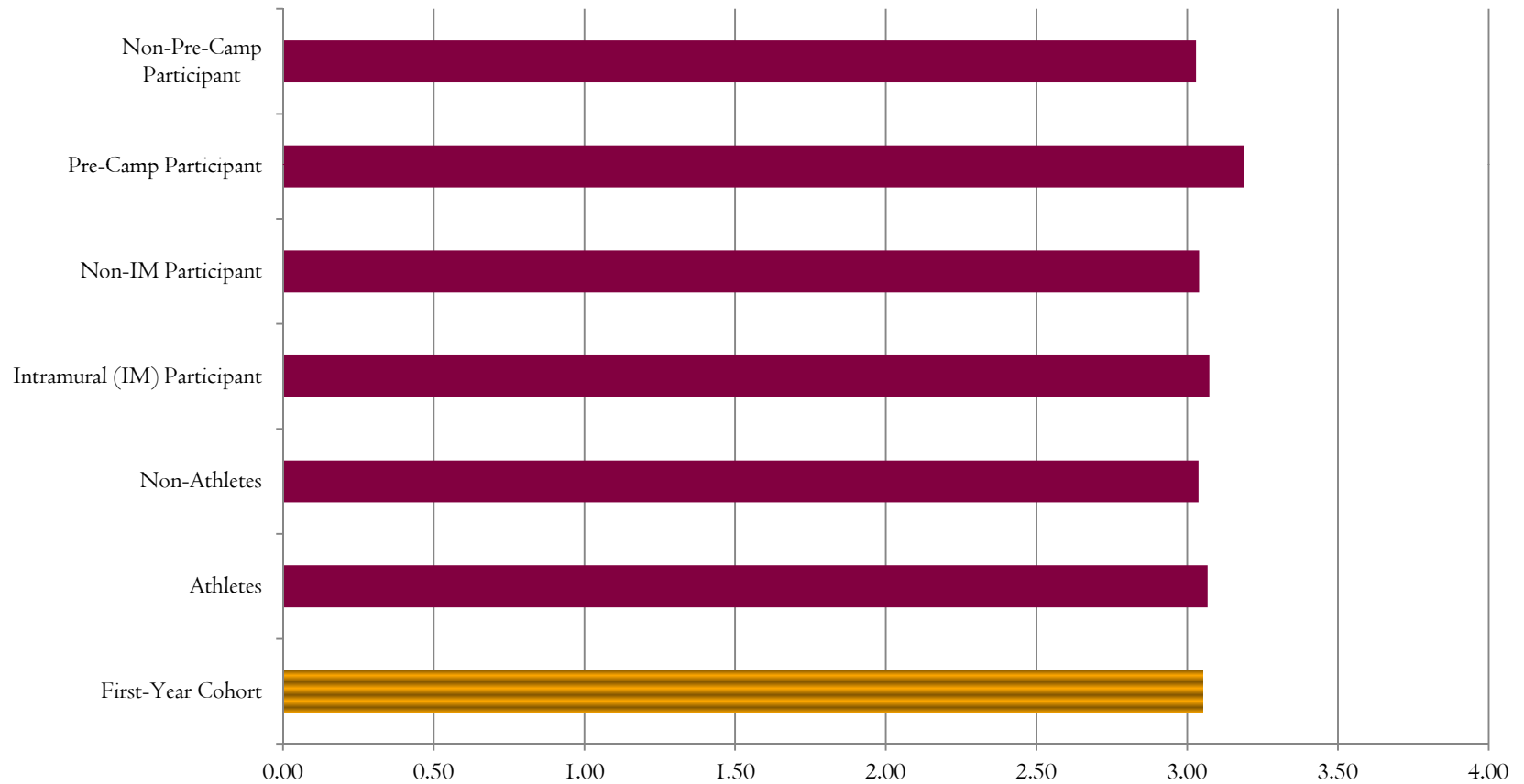


	First-Year Cohort	Athletes ¹	Non-Athletes	Intramural (IM) Participant ²	Non-IM Participant	Pre-Camp Participant ³	Non-Pre-Camp Participant
Number Returning	585					79	506
Number in Entering Cohort	617					80	537
Fall-to-Spring Retention	94.8%					98.8%	94.2%
Number Returning	519	234	285	182	337	74	445
Number in Entering Cohort	617	260	357	205	412	80	537
Fall-to-Fall Retention Rate	84.1%	90.0%	79.8%	88.8%	81.8%	92.5%	82.9%
¹ Played at least one sport during 08-09 year							
² Participated in at least one IM sport during 08-09 year							
³ Participant in Fall 08							

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Mean GPA at end of first-year							
	First-Year Cohort	Athletes	Non-Athletes	Intramural (IM) Participant	Non-IM Participant	Pre-Camp Participant	Non-Pre-Camp Participant
First-Year GPA	3.05	3.07	3.04	3.07	3.04	3.19	3.03
Number of students	585	260	325	198	387	79	506

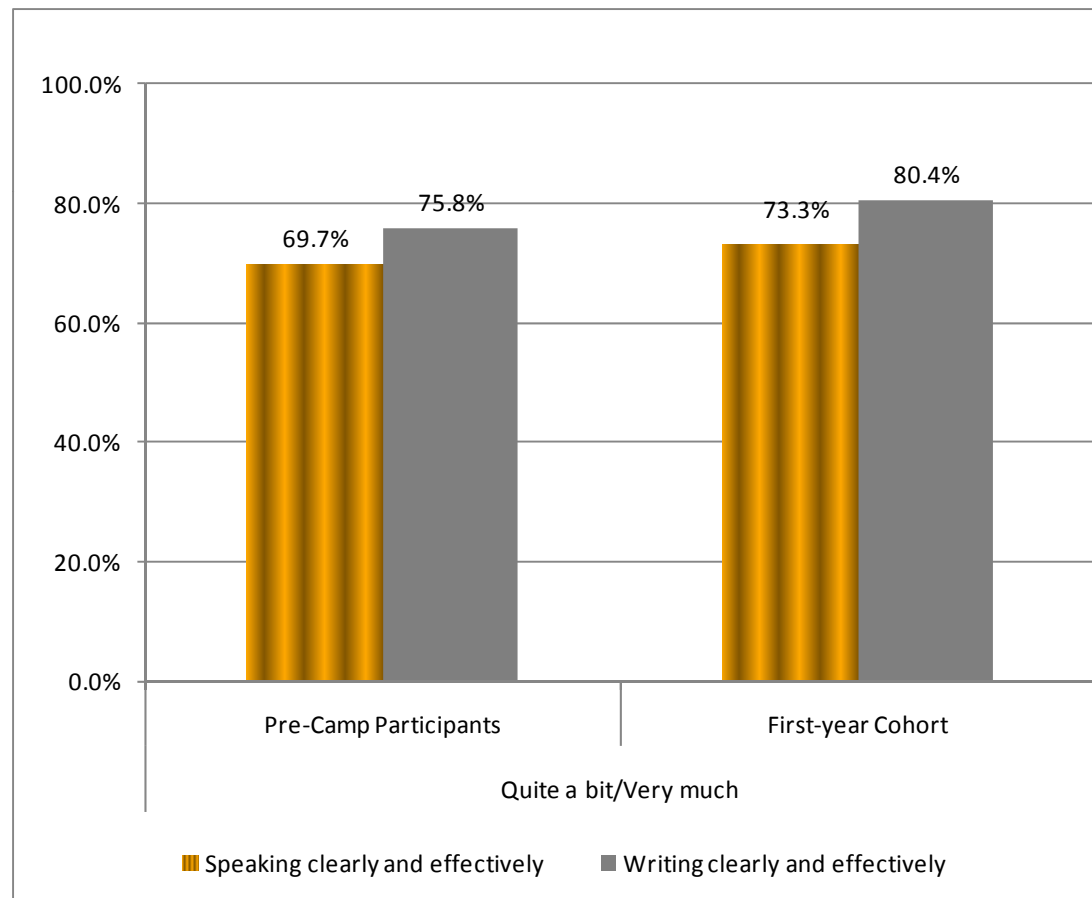
First-Year GPA



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How much has your experience at this institution contributed to your knowledge, skills, and personal development in the following areas?

	Pre-Camp Participants					First-year Cohort				
	Very little	Some	Quite a bit	Very much	N	Very little	Some	Quite a bit	Very much	N
Speaking clearly and effectively	3.0%	27.3%	24.2%	45.5%	33	3.2%	23.5%	36.4%	36.9%	187
Writing clearly and effectively	3.0%	21.2%	33.3%	42.4%	33	1.6%	18.0%	40.7%	39.7%	189



Next Steps

- Identifying measures for each outcome
 - ✓ What is already available
 - ✓ What would need to be collected
- Improve data collection of various first-year experiences
- Develop more analytical retention model

University of Maryland

➤ Context:

✓ Mission:

- ❖ The University fosters: the education, critical thinking and intellectual growth of students; the creation and application of new knowledge; the economic development of the state; and effective engagement with the surrounding world.

✓ Institution is:

- ❖ Flagship University
- ❖ Large and decentralized

✓ Other Factors:

- ❖ Newly endorsed Strategic Plan
- ❖ Provost's Task Force on Retention and Graduation
- ❖ Reorganization of living/learning programs and focus on special undergraduate experiences



Key Elements

- Long term commitment to integrating IR information in initiatives around first year retention
- Retention examined not only at University but for programs and units
- Collaboration with campus committees and initiatives
 - ❖ Living Learning Task Force
 - ❖ Undergraduate Studies
 - ❖ Provost's Task Force on Retention & Graduation
 - ❖ Campus Assessment Working Group (CAWG)
- Re-use existing “products” for consistency and efficiency

Historical Context & Timeline

Enhancing Undergrad Education

- '88 - LL Prgs: Lang.; Internat.; Honors
- Low Occupancy in Res Halls
- '90 - LL White Paper
- '90 to '95 – Budget Crunch -dept. closings

“Making big store small”

- '94 - College Park Scholars
- '94 – DRL's Customer Service Initiative
- '96 - Gemstone & Honors Humanities
- First-Year Focus
- Course Clusters

Keep the best students

- Early identification and intervention
- New Probation and Dismissal Policies

Retain through Graduation

- Focus on achieving benchmarks
- Identifying pathways for success
- Four-year plans
- Student Success Degree Completion Policy
- 2010 Task force

80's – 90's

Mid-late 90's

Early 2000's

Mid 2000's

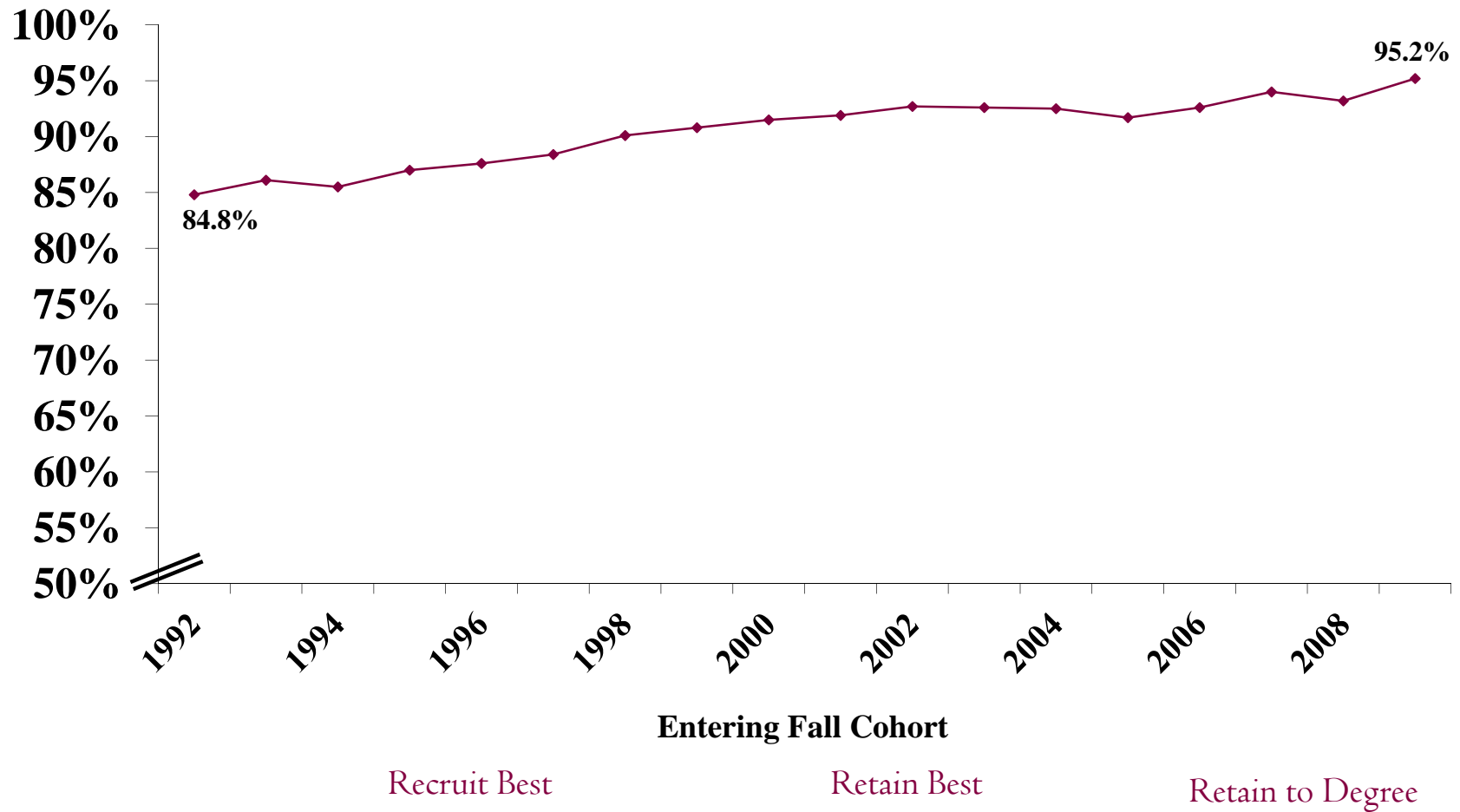
Gen Educ

Attract Best

Keep the Best

Retain to Graduation

First Year Retention



Institutional Research in Support of First-Year Experiences

Standardized Retention Reporting

Report: UG Retention and Graduation Rates



Choose new unit

Show retention by continuity:

Cohort Type:

Limit on Race/Ethnicity:

Limit on Sex:

Show percents:

Limit on a data set:

E-MAIL

BOOK

PRINT

EXCEL

At the university

New Freshmen

All Races

Both Sexes

	Cohort Size	Retained or Graduated			Graduated		
		After 1 Year	After 2 Years	After 3 Years	After 4 Years	After 5 Years	After 6 Years
Fall 1992	3,020	84.8%	76.0%	73.5%	32.0%	58.2%	64.6%
Fall 1993	3,145	86.1%	76.9%	73.1%	33.5%	58.7%	64.0%
Fall 1994	3,629	85.5%	76.4%	72.2%	33.4%	58.1%	63.6%
Fall 1995	3,575	87.0%	76.4%	73.6%	37.6%	59.4%	64.8%
Fall 1996	3,540	87.6%	79.5%	76.4%	40.9%	64.2%	69.2%
Fall 1997	3,951	88.3%	81.0%	77.3%	43.0%	65.8%	70.7%
Fall 1998	4,044	90.1%	82.9%	79.3%	46.0%	68.7%	73.2%
Fall 1999	3,875	90.7%	84.7%	81.7%	50.1%	72.9%	76.5%
Fall 2000	3,933	91.5%	86.2%	83.8%	54.5%	76.2%	79.5%
Fall 2001	4,341	91.9%	86.2%	83.8%	58.4%	77.1%	80.0%
Fall 2002	3,886	92.7%	87.1%	85.3%	63.1%	79.6%	81.8%
Fall 2003	4,046	92.5%	86.8%	85.5%	62.8%	79.7%	81.8%
Fall 2004	4,174	92.5%	87.6%	85.1%	62.5%	79.3%	81.5%
Fall 2005	4,192	91.7%	87.2%	85.1%	66.0%	79.7%	
Fall 2006	3,943	92.6%	87.7%	85.6%	62.8%		
Fall 2007	4,219	94.0%	89.1%	87.3%			
Fall 2008	3,900	93.2%	89.6%				
Fall 2009	4,192	95.2%					

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Application of Standard Across Programs

Sample Data Set for Program

R. H. Smith School of Business

At the university

New Freshmen
All Races
Both Sexes

	Cohort Size	Retained or Graduated			Graduated		
		After 1 Year	After 2 Years	After 3 Years	After 4 Years	After 5 Years	After 6 Years
Fall 2003	50	98.0%	74.0%	68.0%	30.0%	50.0%	52.0%
Fall 2004	41	87.8%	87.8%	78.0%	29.3%	48.8%	53.7%
Fall 2005	34	97.1%	76.5%	73.5%	23.5%	52.9%	
Fall 2006	46	93.5%	80.4%	71.7%	47.8%		
Fall 2007	48	95.8%	75.0%	68.8%			
Fall 2008	35	97.1%	85.7%				
Fall 2009	46	93.5%					

- Initial cohort includes only full time, degree seeking, new freshmen
- For years 1-3, percent includes those retained or graduated
- For years 4-6, percent includes only those that graduated

29 -- Robert H. Smith School of Business

New Freshmen
All Races
Both Sexes

	Cohort Size	Retained or Graduated			Graduated		
		After 1 Year	After 2 Years	After 3 Years	After 4 Years	After 5 Years	After 6 Years
Fall 1992	360	88.1%	77.2%	77.8%	43.6%	66.9%	71.1%
Fall 1993	428	89.7%	82.5%	75.7%	40.0%	66.6%	70.1%
Fall 1994	445	85.2%	77.5%	73.5%	42.5%	62.5%	65.6%
Fall 1995	438	87.4%	78.1%	76.5%	47.0%	64.2%	69.6%
Fall 1996	365	86.0%	81.1%	76.4%	46.6%	68.2%	71.0%
Fall 1997	437	89.7%	82.2%	78.5%	49.7%	72.3%	75.7%
Fall 1998	373	91.4%	86.6%	85.5%	56.6%	78.0%	79.6%
Fall 1999	148	95.3%	90.5%	87.8%	64.2%	81.8%	83.8%
Fall 2000	176	97.2%	94.9%	93.8%	71.0%	88.1%	90.3%
Fall 2001	212	93.9%	94.3%	91.0%	79.2%	89.2%	90.1%
Fall 2002	302	92.7%	89.7%	87.4%	76.5%	85.8%	86.8%
Fall 2003	291	93.5%	91.4%	91.1%	75.3%	89.3%	90.4%
Fall 2004	283	95.8%	93.6%	92.6%	77.0%	89.8%	90.8%
Fall 2005	376	95.5%	92.3%	92.0%	80.6%	89.9%	
Fall 2006	370	93.8%	90.0%	90.0%	73.8%		
Fall 2007	428	96.0%	93.0%	93.0%			
Fall 2008	404	95.0%	93.1%				
Fall 2009	401	96.5%					

Living Learning Project

- Initial reports for task force
 - ✓ Task force resulted in reorganization
 - ✓ Ongoing need for consistent data across programs
- Undergraduate Studies assumed responsibility for annual reporting
- Data for annual program review reports
 - ✓ Demographics
 - ✓ Admissions – Invites and Yield, Profile
 - ✓ Program participation
 - ✓ Retention and Graduation

Examples of Survey Data Support

- Beginning Student Survey
 - ✓ Home-grown survey on first-year transition issues
 - ✓ As requested, IRPA provides program-level results
- National Study of Living-Learning Programs
 - ✓ Researcher provided campus-level results
 - ✓ IRPA conducted analysis for program-level results
- Consultation
 - ✓ For within-program surveys, directors consult with IRPA staff

Provost's Task Force on Retention

- Focus on first year retention and identifying subgroups at risk
- Movement away from single cohort analysis toward multi-year/multi-cohort analysis
- Grounded in Strategic Plan
 - ✓ University below identified peers
 - ✓ Attempt to engage entire University in process
- Incorporate existing work (e.g., CAWG) while developing new analyses

Retention Committee Sample Data

Retention Rates, by Students' Academic Standing at the End of First Fall Term

	1 st Year		2 nd Year		3 rd Year	
	Cohort N	Retention Rate	Cohort N	Retention Rate	Cohort N	Retention Rate
Good Standing	11,103	95.6%	7,490	91.6%	3,601	89.3%
Probation	959	66.2%	672	53.1%	342	47.1%

Top 10 Major Reasons For Leaving UM

CAWG Retention: "My Story"

Transfer Outs

Stop Outs

Academ. svc./advising not helpful

Grades

Cost of tuition/fees too high ●

● ***Cost of tuition/fees too high***

Inadequate financial aid ●

● ***Inadequate financial aid***

Not enough fac. interaction/attention

Lack of focus or direction

Too many people in classes

● ***Loss of motivation***

Dissatisfied with qual. instruction

Cost of books/supplies too high

Depression/anxiety

Cost of living in area too high

UM didn't have program/major

Did not have good study habits

Felt like an outsider

Had trouble balancing work/school

Loss of motivation ●

Encountered unexpected expenses

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Type of Institution	First Fall GPA							
	0.00-2.50		2.51-2.99		3.00 plus		All GPA groups	
	N	%	N	%	N	%	N	%
Maryland Public 2-year	298	57%	30	27%	40	11%	368	36%
Maryland Public 4-year	48	9%	18	16%	47	13%	113	11%
Maryland Private 4-year	3	1%	4	4%	4	1%	11	1%
Other Public 2-year	84	16%	10	9%	26	7%	120	12%
Other Public 4-year	55	10%	33	29%	145	39%	233	23%
Other Private 4-year	38	7%	17	15%	112	30%	167	17%
Total	526	100%	112	100%	374	100%	1,012	100%

Challenges and Next Steps

➤ Challenges

- ✓ Decentralization
- ✓ Identifying students, maintaining program participation
- ✓ Identifying and tracking new initiatives
- ✓ Differences in programs, student preparation impact findings
- ✓ Scope creep - resource cost/benefit

➤ Next Steps

- ✓ Continue to work with programs to improve data quality
- ✓ Continue incorporating program needs with ongoing projects
- ✓ Automation - expand “Self Serve” products

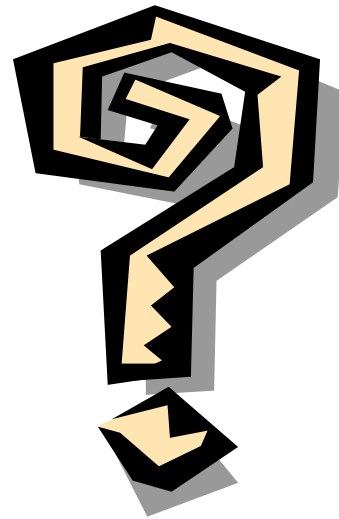
Comparison of Case Studies

- More Similarities than Differences
 - ✓ Program participation data challenges
 - ✓ Attempt to re-use existing work
 - ❖ Surveys
 - ❖ Reporting structures
 - ✓ Integrate with other campus initiatives and priorities
 - ✓ Use of IPEDS methodology for peer comparison data
 - ✓ Move beyond an overall rate and look at sub-groups to better understand what works and where retention can get better
 - ❖ Utilization of additional measures beyond IPEDS retention
 - ❖ Exploration of “at risk” groups

Comparison of Case Studies

- Differences generally relate to institutional context
 - ✓ Institutional history/familiarity with retention information
 - ✓ Availability of resources with which to explore retention and student success

Questions & Discussion



Other Experiences?