EXAMINING THE FIRST-TERM EXPERIENCES OF NEW FRESHMEN AN IR APPROACH

UNIVERSITY OF MARYLAND

MDAIR CONFERENCE

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ABOUT US



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Acknowledgements

- Amanda Bowsher, IRPA Graduate Assistant
- CAWG Beginnings



AGENDA

Approach: How the project was developed

First Semester Experience: Why is this important?

About the data

First Semester Experiences: Key Findings

- Entry
- Enrollment
- Performance
- Perceptions

Challenges, Outcomes, Recommendations

Discussion / Q&A

APPROACH: HOW THE PROJECT WAS DEVELOPED

- Brainstormed research projects for the summer during team retreat
- Inspired by Beloit College's "Mindset List" to provide additional data on incoming freshmen
 - Reviews the "cultural touchstones" that shaped the lives of first-year students
 - Excerpts from the Class of 2015 Mindset List:
 - Ferris Bueller and Sloane Peterson could be their parents
 - Refer to LBJ, and they might assume you're talking about LeBron James
- Decided to develop digestible data points on the firstsemester experience that would be useful to the broader campus community based on strategic goals (e.g., STEM, General Education, Time-to-Degree)

APPROACH: HOW THE PROJECT WAS DEVELOPED

Created a list of data elements to include in the study, which served as a "to-do" list for the project

First-Semester Experiences		
Data Element	Description	Data Source
Major Facts	IWhat percentage are in STEM? What percent of students	Warehouse: Um Student Facts, Um Student Org, Sec Major Table
Requested Major	Distribution of students who enrolled in preferred major (LEP)	Warehouse: Um Ugrad Applicant
Enrollment	and those "in limbo"	Facts, Sis Ug Admissions, Um Ugrad
Class Size	Distribution of students' courses by class size; e.g. X% of students are in 2+ courses with 100+ students	Warehouse: Um Fac Course, Um Cour Sacts, Um Stu Sch Course
Exposure	tage of students in a certain number of cou	V Sac Cov

caits At. d	Average attemptedits for fin	End of Term Performunce
Credits Farned	Average earned credits for first-semester students; what nercentage of students finish with less than 10 credits?	Warehouse: Sis Term Stu Status, Sis
		End of Term Performance, Um
		Progressions2 Base Facts
GPA	Average GPA for first-semester students	Warehouse: Sis End of Term
		Performance, Um Progressions2
		Base Facts

FIRST SEMESTER EXPERIENCE: WHY IS THIS IMPORTANT?

- Ensure students are on the path to success from day one
- Provide points of reference about what freshmen experience on campus in their first term
- Understand how data can provide a portrait of student experiences, supporting and contextualizing anecdotal evidence
- Highlight successes and opportunities within the firstsemester experiences of new freshmen

ABOUT THE DATA: SOURCES

IRPA DATABASE

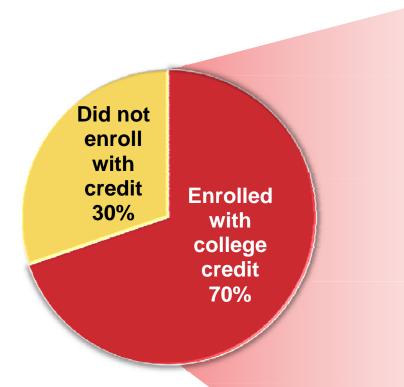
- Aggregated student enrollment data from the Fall 2009, 2010 and 2011 freshman cohorts
- Provides information on student demographics, registration, and course attributes
- Data include all new freshmen, including parttime and non-degree seeking students

BEGINNING STUDENT SURVEY, 2010 & 2011

- Survey of freshmen taken 8-10 weeks into their first term
- 2010 survey gauges student perceptions of the academic and social experiences on campus;
 n = 1869
- 2011 survey assesses students' degree completion expectations;
 n = 1498

FIRST SEMESTER EXPERIENCES: ENTRY

PRE-ENROLLMENT CREDITS



70% of freshmen enroll with college credit

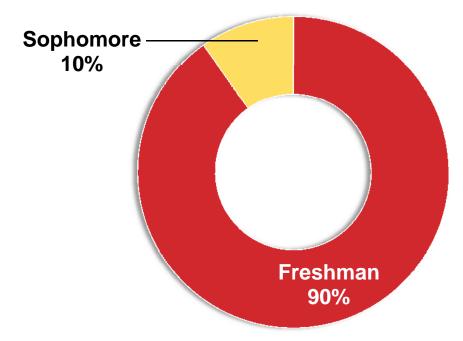
- 65% enter with AP credit
- 10% enter with credit from another institution
- 3% enter with IB credit

Average number of accepted pre-college credits is 17

PRE-ENROLLMENT CREDITS: CLASS STANDING

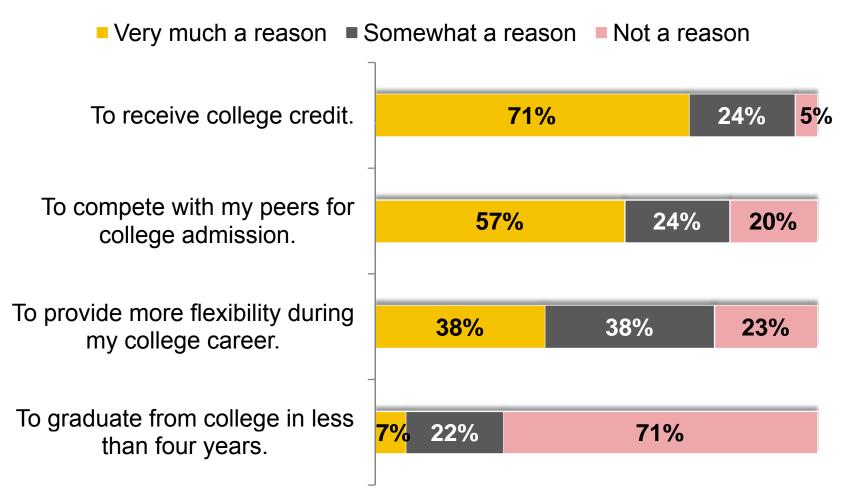
The overwhelming majority of freshmen enter with freshman class standing; however, 10% enter with enough credits to reach sophomore class standing

Students entering as sophomores have an average of 40 pre-enrollment credits



PRE-ENROLLMENT CREDITS

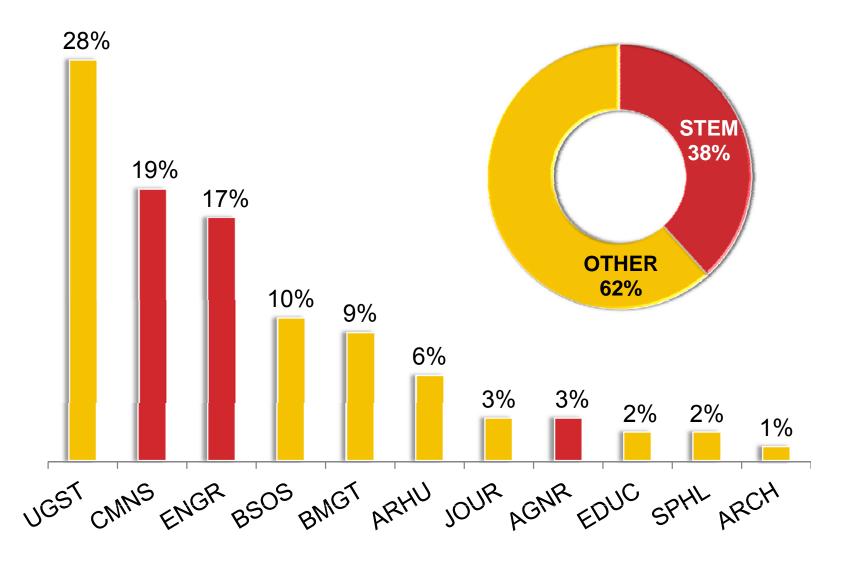
Why freshmen took AP/IB/College-level courses



Source: BSS11; responses may not sum to 100 due to rounding.

FIRST SEMESTER EXPERIENCE: ENROLLMENT

MAJORS: BY COLLEGE AND STEM



Note: Percentages may not sum correctly due to rounding.

ENROLLMENT

TEN MOST POPULAR MAJORS AMONG FRESHMEN

1. General Biology

6. Computer Science

2. Engineering-Undecided

7. Physiology/Neurobiology

3. Business-Undecided

8. Journalism

4. Psychology

9. Mechanical Engineering

5. Government and Politics

10. Bioengineering

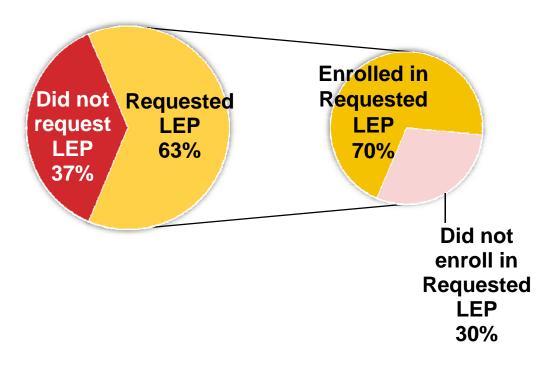
But...25% of freshmen are undecided

Source: IRPA database

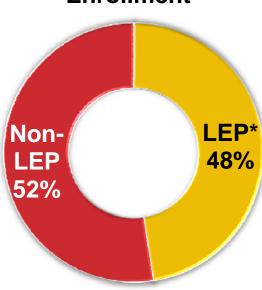
Note: STEM majors are shown in red.

REQUESTED MAJOR / LEP ENROLLMENT

Requested LEP Admission



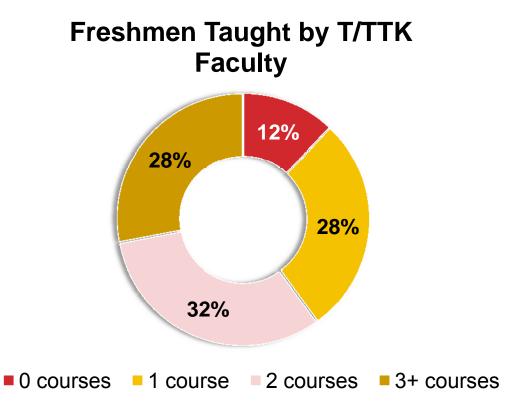
First-Semester Major Enrollment



*Includes students who were admitted to their requested LEP as well as those who switched to another LEP at orientation.

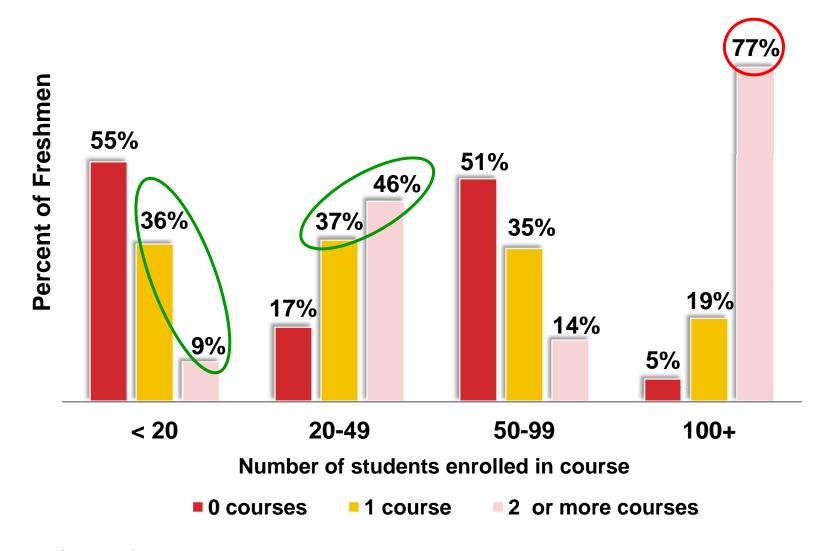
COURSES: INSTRUCTION

Most freshmen have at least 2 courses taught by a tenured/ tenure-track faculty member



Note: Only data for lead lecture courses are shown.

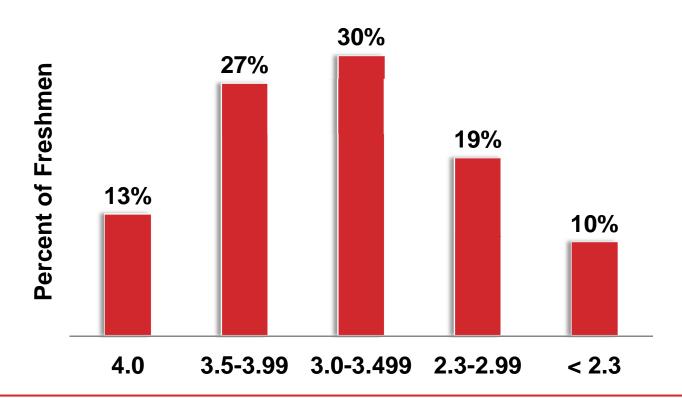
COURSES: CLASS SIZE



Note: Only data for lead lecture courses are shown. Percentages may not sum to 100 due to rounding.

FIRST SEMESTER EXPERIENCE: PERSONNEL EXPENSES EX

ACADEMIC PERFORMANCE



5% of freshmen are placed on academic probation at the end of their first term

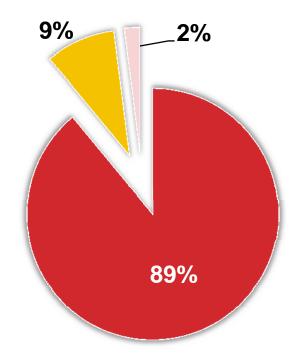
Note: Percentages may not sum to 100 due to rounding.

FIRST SEMESTER EXPERIENCE: PERCEPTIONS

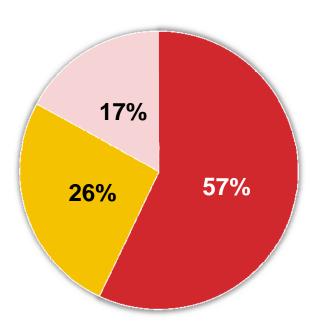
UNIVERSITY OF MARYLAND

At present, my general attitude towards the University of Maryland is:

When I entered this institution, it was my:



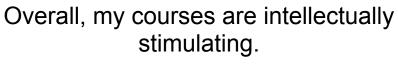
- Positive or Very Positive
- Neutral
- Negative or Very Negative



- 1st choice
- 2nd choice
- 3rd choice or lower

ACADEMIC LIFE

Percentage of freshmen who "Agreed" or "Strongly Agreed" ...

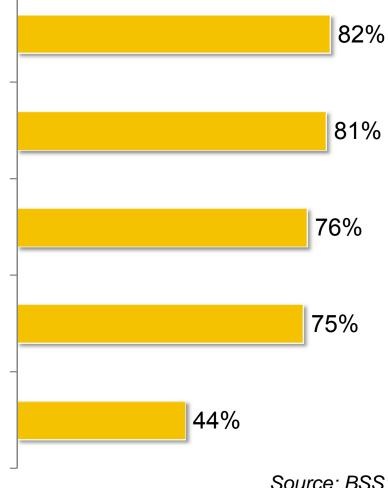


I'm adjusting to the academic work of college.

I understand the purpose of the CORE (general education) program.

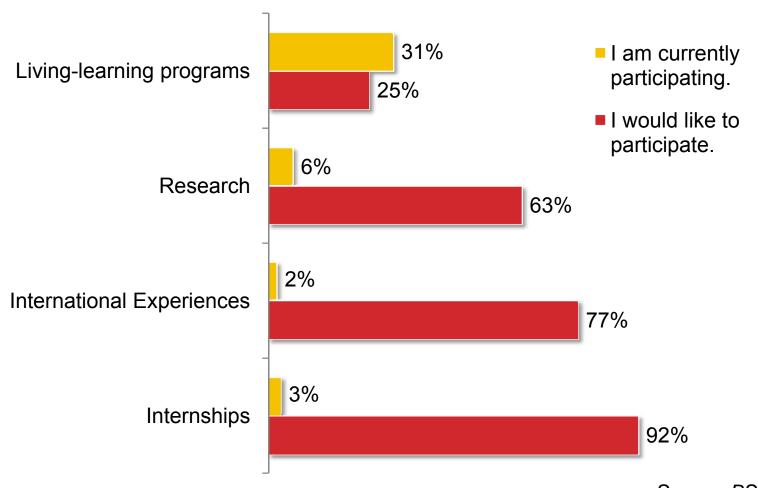
I feel adequately prepared for the academic demands here.

I am earning the grades I want.



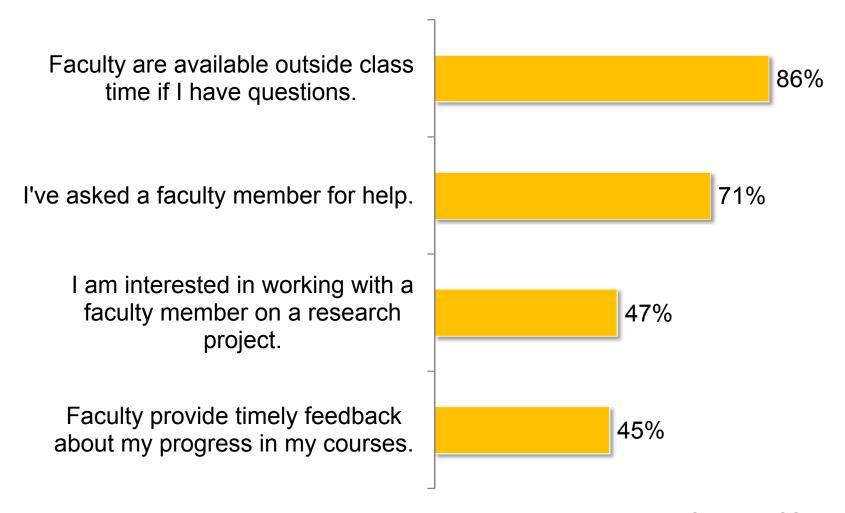
FUTURE INVOLVEMENT

Percentage of freshmen who reported they are currently participating in or would like to participate in the following experiences:



FACULTY

Percentage of freshmen who "Agreed" or "Strongly Agreed" ...



CHALLENGES, OUTCOMES & RECOMMENDATIONS

CHALLENGES AND OUTCOMES

DATA CHALLENGES

Managing nuances in the data

- Identifying limited enrollment program applicants
- Linking students' courses to class size and faculty data

Working within the bounds of available data

- Annual changes to BSS
- Unable to query CourseEval data

Interpreting and translating technical data for audiences with varied technical fluency

BROADER OUTCOMES

Improvements to the IRPA data warehouse

- Discovered that there are duplicate courses in database that will have to be corrected
- Added a field to the warehouse to flag LEP applicants

Targeted dissemination of accessible and relevant information to key campus constituents

RECOMMENDATIONS

- Evaluate your data and determine which questions you can answer
- Utilize existing campus surveys to complement IR data
- Leverage campus surveys to inform the institution's strategic goals
- Share your findings in a format that is easy to comprehend for non-data/technical audiences
- Anticipate the needs of your campus and conduct proactive analyses

A lot of times, people don't know what they want until you show it to them. – Steve Jobs

QUESTIONS?

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