

# KEEPING UP WITH THE MAJOR CHANGERS:

Tracking and reporting student cohorts across  
colleges and majors



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# AGENDA

- **Where We Began**
- **Why We Needed the Report**
- **Key Issues Considered During Development**
- **Movers – The Initial Attempt**
- **The New Report**



# WHERE WE BEGAN



# RETENTION AND GRADUATION REPORT



Limit on Race/Ethnicity:



Limit on Sex:

Show percents:

## 32 -- A. James Clark School of Engineering

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 2005	558	92.8%	88.5%	85.3%	55.7%	78.0%	81.0%
Fall 2006	590	92.9%	89.5%	88.1%	58.1%	79.7%	83.2%
Fall 2007	601	95.3%	90.8%	88.5%	61.4%	81.9%	84.4%
Fall 2008	608	95.6%	92.9%	90.3%	65.6%	85.4%	
Fall 2009	668	97.0%	94.0%	92.8%	69.0%		
Fall 2010	685	96.1%	93.9%	92.4%			
Fall 2011	744	96.2%	94.2%				
Fall 2012	683	96.2%					

- 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

# RETENTION AND GRADUATION CONTINUITY REPORT

## 32 -- A. James Clark School of Engineering

New Freshmen  
All Races  
Both Sexes

### Retained or graduated in this College

	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 2005	558	81.9%	66.8%	62.7%	42.7%	57.9%	60.0%
Fall 2006	590	84.4%	73.7%	68.1%	48.6%	62.7%	64.1%
Fall 2007	601	86.7%	73.5%	69.2%	51.9%	64.4%	65.7%
Fall 2008	608	86.0%	75.2%	70.4%	53.8%	67.3%	
Fall 2009	668	89.2%	80.1%	76.6%	59.6%		
Fall 2010	685	90.2%	82.3%	78.2%			
Fall 2011	744	88.3%	78.5%				
Fall 2012	683	90.2%					

### Retained or graduated elsewhere

	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 2005		10.9%	21.7%	22.6%	13.1%	20.1%	21.0%
Fall 2006		8.5%	15.8%	20.0%	9.5%	16.9%	19.2%
Fall 2007		8.7%	17.3%	19.3%	9.5%	17.5%	18.6%
Fall 2008		9.5%	17.8%	19.9%	11.8%	18.1%	
Fall 2009		7.8%	13.9%	16.2%	9.4%		
Fall 2010		5.8%	11.5%	14.2%			
Fall 2011		7.9%	15.7%				
Fall 2012		6.0%					

# DEGREES AWARDED BY MATRICULATION TYPE

## 32 -- A. James Clark School of Engineering

Number of degrees granted (unduplicated headcount) in the year, from summer through spring

	FY 2010	FY 2011	FY 2012	FY 2013
Bachelors	599	678	708	836
Masters	348	389	418	511
Doctorate	109	125	122	130
First Professional				

Count of Majors

	FY 2010	FY 2011	FY 2012	FY 2013
Bachelors	600	678	708	836
Masters	348	389	418	511
Doctorate	109	125	122	130
First Professional				

Percent breakdown of bachelor degrees awarded by how the student started at UM

	FY 2010	FY 2011	FY 2012	FY 2013
Freshman (College major)	65.7%	59.9%	59.3%	61.2%
Freshman (not College major)	9.9%	16.2%	14.4%	17.2%
Transfer (College major)	17.7%	14.6%	17.5%	13.4%
Transfer (not College major)	6.7%	9.3%	8.8%	8.1%

Note:

- Students who receive multiple degrees are counted more than once.
- The historical figures are updated when a degree is entered into the database after the end of the year.

Note that a fiscal year begins on July 1 and ends on June 30. So, FY2013 would include Fall'12 and Spring'13.

# WHY WE NEEDED THE REPORT



Your numbers don't tell my story – no one starts out in this major

How can I help them get a degree if I don't know how they got to me?

They probably succeeded somewhere else– they just weren't cut out for this major

How can I prepare them for success if I don't know where they go?

We get all these students at the last minute when they're upperclassmen

They come to us undecided – we have to find paths for them



# KEY ISSUES

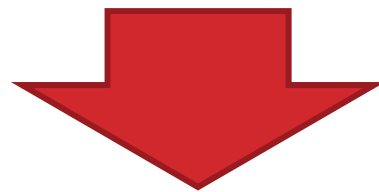
**WHO** are we talking about?

**WHEN** did the move take place?

**HOW LONG** had they been at UM?

**WHERE** did they come from?

**WHERE** did they go to?



**COHORT-BASED ANALYSIS OF MOVERS**

# OUR FIRST ATTEMPT

## Report: Student Movers (2005 Cohort and Later)



Select units for report

2004 Cohort and Earlier  
2005 Cohort and Later

Focus on Year:

Start with year:

Cohort Type:

Limit on Race/Ethnicity:

Limit on Sex:

Go

New Freshmen  
All Races  
Both Sexes  
Focusing on ARHU in year 0

- SAT scores
- Number of Registered Majors
- Student Movers**
- Students by Race and Gender
- UG Applications by Start Type
- UG Enrollment Pivot (Count of Majors)
- UG Enrollment Pivot (Undup Count of Majors)
- UG Enrollment Pivot (Undup Headcount)
- Undergraduate Applications

- E-MAIL
- BOOK
- PRINT
- EXCEL

### Student Movers

ARHU after 0 years

Where they went

	Fall 2005 First Year	Fall 2006 After 1 year	Fall 2007 After 2 years	Fall 2008 After 3 years	Fall 2009 After 4 years	Fall 2010 After 5 years	Fall 2011 After 6 years
ARHU	283	230	195	193	190	192	192
BMGT			6	6	6	6	7
BSOS		8	14	15	17	17	17
CMNS		3	2	2	2	2	2

# ENGINEERING EXAMPLE

## Report: Student Movers (2005 Cohort and Later)



### Select units for report





Focus on Year:

Start with year:

Cohort Type:

Limit on Race/Ethnicity:

Limit on Sex:

-  E-MAIL
-  BOOK
-  PRINT
-  EXCEL

New Freshmen  
 All Races  
 Both Sexes  
 Focusing on ENGR in year 0

### Student Movers

	Where they went						
	ENGR after 0 years ↓ Fall 2005 First Year	Fall 2006 After 1 year	Fall 2007 After 2 years	Fall 2008 After 3 years	Fall 2009 After 4 years	Fall 2010 After 5 years	Fall 2011 After 6 years
AGNR			3	4	4	6	6
ARHU		2	8	10	11	11	10
BMGT		9	19	21	21	20	20
BSOS		9	28	39	45	42	44
CMNS		16	45	41	42	36	37
ENGR	557	454	366	343	336	334	336
JOUR			1	1	1	1	1
SPHL		1	7	7	8	8	8
UGST		24	9	1	1		
Total	557	515	486	467	469	458	462
Drop Out/Stop Out		42	71	90	88	99	95

## Report: Student Movers (2005 Cohort and Later)



Select units for report

Focus on Year:

Start with year:

Cohort Type:

Limit on Race/Ethnicity:

Limit on Sex:

Go

New Freshmen

All Races

Both Sexes

Focusing on ENGR in year 2

E-MAIL

BOOK

PRINT

EXCEL

### Student Movers

	Where they Came From		ENGR after 2 years	Where they went			
	Fall 2005 First Year	Fall 2006 After 1 year	Fall 2007 After 2 years	Fall 2008 After 3 years	Fall 2009 After 4 years	Fall 2010 After 5 years	Fall 2011 After 6 years
AGNR	1				1	1	1
ARHU				3	3	3	3
BMGT				1	1	1	1
BSOS	1	1		5	10	10	10
CMNS	8	5		4	7	6	6
ENGR	366	371	396	362	355	351	352
JOUR	1	1					
SPHL					1	1	1
UGST	19	15					
Total	396	393	396	375	378	373	374
Drop Out/Stop Out		3	0	21	18	23	22

## Report: Student Movers (2005 Cohort and Later)



Select units for report

Focus on Year:

Start with year:





Cohort Type:

Limit on Race/Ethnicity:

Limit on Sex:

Go

New Freshmen  
 All Races  
 Both Sexes  
 Focusing on ENGR in year 6

-  E-MAIL
-  BOOK
-  PRINT
-  EXCEL

### Student Movers

	Where they Came From						ENGR after 6 years
	Fall 2005 First Year	Fall 2006 After 1 year	Fall 2007 After 2 years	Fall 2008 After 3 years	Fall 2009 After 4 years	Fall 2010 After 5 years	Fall 2011 After 6 years
AGNR	2	1	1				
ARCH	1	1					
BSOS	1	1					
CMNS	7	5					
ENGR	336	339	352	360	364	365	367
JOUR	1	1					
SPHL			1				
UGST	19	16	2				
Total	367	364	356	360	364	365	367
Drop Out/Stop Out		3	11	7	3	2	0



HOW DO WE MAKE IT BETTER?



# DESIGN SPECIFICATIONS

- **Data Source: Updated “Progressions” files**
- **Changes to User Interface:**
  - Added unit type option to clarify level of analysis
  - Simplified the language (e.g., “Start with year” to “Cohort Year”)
  - Provided GPA data in drill down
- **Additional Changes/Features:**
  - Eliminating hover split on main menu
  - Internal transfers total
  - Race/ethnicity option will populate based on year

# PREVIEW: NEW REPORT

Unit Type:

College/Division:

Major:

Cohort Year:

Focus year:

Cohort type:



# CURRENT ENHANCEMENTS

Unit Type: College ▾

College/Division: Robert H. Smith School of Business ▾

Major: MARKETING ▾

Cohort Year: 2008 ▾

Focus year: 0 ▾

Cohort type: NF ▾

Run Report

	<b>Focus Year Robert H. Smith School of Business Fall 2008 First Year</b>	<b>Fall 2009 After 1 year</b>	<b>Fall 2010 After 2 years</b>	<b>Fall 2011 After 3 years</b>	<b>Fall 2012 After 4 years</b>	<b>Fall 2013 After 5 years</b>	<b>Fall 2014 After 6 years</b>
A. James Clark School of Engineering		<u>3</u>	<u>3</u>	<u>4</u>	<u>4</u>	<u>4</u>	
College of Agriculture & Natural Resources			<u>1</u>	<u>2</u>	<u>2</u>	<u>2</u>	
College of Arts & Humanities			<u>3</u>	<u>6</u>	<u>6</u>	<u>5</u>	
College of Behavioral & Social Sciences		<u>2</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	
College of Computer, Math & Natural Sciences		<u>3</u>	<u>7</u>	<u>7</u>	<u>8</u>	<u>8</u>	
College of Education			<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	
Robert H. Smith School of Business	<u>404</u>	<u>375</u>	<u>355</u>	<u>340</u>	<u>333</u>	<u>332</u>	
School of Public Health			<u>1</u>	<u>3</u>	<u>2</u>	<u>2</u>	
Undergraduate Studies		<u>1</u>			<u>1</u>		
Graduated	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>313</u>	<u>355</u>	<u>0</u>
Drop Out / Stop Out	<u>0</u>	<u>20</u>	<u>28</u>	<u>35</u>	<u>40</u>	<u>42</u>	<u>404</u>
Internal Transfers	0	0	0	0	0	0	0

# DRILL DOWN INFORMATION

All Races

Both Sexes

Focusing on Robert H. Smith School of Business in start year 2008 with focus year 0

Dropped / stopped in year 1

	Name	U_Id	Cumulative GPA (in Fall 2009)
1	[REDACTED]	[REDACTED]	3.346
2	[REDACTED]	[REDACTED]	2.000
3	[REDACTED]	[REDACTED]	1.666
4	[REDACTED]	[REDACTED]	3.400
5	[REDACTED]	[REDACTED]	4.000
6	[REDACTED]	[REDACTED]	3.735
7	[REDACTED]	[REDACTED]	3.636
8	[REDACTED]	[REDACTED]	3.575
9	[REDACTED]	[REDACTED]	1.105
10	[REDACTED]	[REDACTED]	3.677
11	[REDACTED]	[REDACTED]	1.000
12	[REDACTED]	[REDACTED]	3.566
13	[REDACTED]	[REDACTED]	3.705
14	[REDACTED]	[REDACTED]	3.526
15	[REDACTED]	[REDACTED]	3.896

# DRAWBACKS & LIMITATIONS

**Requires user training/clear instructions**

**Does not account for every single student in a given major in a given term**

**Focuses on Primary Major – difficult to get at multiple majors**

**No spring cohorts – are these students different?**

**Non-graphical - requires analysis to interpret results**

