Enhancing Faculty Engagement with Data to Strengthen Student Success

Dr. Jamie McKinney, Director of Nursing
Professor Kellie Matherly, Chair Arts & Humanities
Professor Doyle Roy, Welding
Dr. Richard Davis, Chair South Campus & Professor of English

Session Outcomes

1. Identify the benefits and challenges of providing direct access to departmental data using a data warehouse and analytics tool.

2. Identify strategies for establishing expectations and engaging faculty in the use of data for continuous improvement (Program/Course Outcomes).

3. Demonstrate how to identify courses in need of improvement and list a series of potential interventions/enhancements designed to increase student success.

4. Demonstrate the importance of allowing faculty/departments to share their results with upper level administration/Board of Trustees.

Grayson College

- Rural Community College in north central Texoma (serves Grayson and Fannin Counties)

- Locations
  - Main Campus – Denison
  - South Campus – Van Alstyne

- Approximately 4500 students

Benefits and Challenges to Providing Direct Access to Departmental Data

Challenges

Disbelief in the data
Concern about misuse of data
Access to and the Use of Data
Faculty Engagement

Benefits

Available when they need it
Allows faculty to review and question the data

First Annual Data Summit 2014

- All Faculty and Staff Attended
- Looked at the Institutional, Divisional, and Departmental Data by Discipline
- Highest Enrollment and Lowest Success Rate
- Identified Improvements
- Beginning 2017-two separate data summits: Faculty & Staff

GRAYSON COLLEGE

Successful Course Completion

Student grade of A, B, or C

Example Course Level Data # 1

Subject	Course Number	Fall 2014 16 Week Term	Total Class Size	Fall 2014 Second Half Term	Total Class Size	Fall 2015 16 Week Term	Total Class Size	Fall 2015 Second Half Term	Total Class Size	Fall 2016 Full Term	Total Class Size	Fall 2017 16 Week Term	Total Class Size	Fall 2017 Second Half Term	Total Class Size	Fall 2018 16 Week Term	Total Class Size	Fall 2018 Second Half Term	Total Class Size
WLDG	1413	86%	14			54%	28			79%	24								
	1421	75%	73	100%	6	86%	58			91%	55	89%	27	100%	1	81%	36	0%	1
	1428	76%	54			87%	47			89%	62	84%	32			76%	37	100%	1
	1430	74%	43			79%	48			79%	24	75%	24			76%	21		
	1434	74%	35			88%	33			81%	37	87%	30			88%	17		
	1435	88%	16																
	1457	71%	31			84%	37			67%	27	75%	16	100%	1	86%	22	100%	1
	2406					85%	26			67%	18	75%	20			94%	16		
	2447	93%	15	100%	1	83%	24			83%	29	87%	31			86%	14		
	2451	80%	15			74%	19			75%	12	95%	19			89%	9	0%	1
	2453	80%	5																
	2488							100%	2										
	2489					100%	2	100%	1										
WLDG Total		77%	301	100%	7	81%	322	100%	3	82%	288	84%	199	100%	2	83%	172	50%	4

Example Course Level Data # 2

Subject	Course Number	Fall 2015 16 Week Term	Total Class Size	Fall 2015 Second Half Term	Total Class Size	Fall 2016 Full Term	Total Class Size	Fall 2017 16 Week Term	Total Class Size	Fall 2017 Second Half Term	Total Class Size	Fall 2018 16 Week Term	Total Class Size	Fall 2018 Second Half Term	Total Class Size
WLDG	1413	54%	28			79%	24								
	1421	86%	58			91%	55	89%	27	100%	1	81%	36	0%	1
	1428	87%	47			89%	62	84%	32			76%	37	100%	1
	1430	79%	48			79%	24	75%	24			76%	21		
	1434	88%	33			81%	37	87%	30			88%	17		
	1435														
	1457	84%	37			67%	27	75%	16	100%	1	86%	22	100%	1
	2406	85%	26			67%	18	75%	20			94%	16		
	2447	83%	24			83%	29	87%	31			86%	14		
	2451	74%	19			75%	12	95%	19			89%	9	0%	1
	2453														
	2488			100%	2										
	2489	100%	2	100%	1										
WLDG Total		81%	322	100%	3	82%	288	84%	199	100%	2	83%	172	50%	4

Departmental Dashboards

Retention
Enrollment
Withdrawal Rates
Capacity Planning
Grade Distributions
Faculty Load
Course Success Rates
Awarded Degrees/Certificates

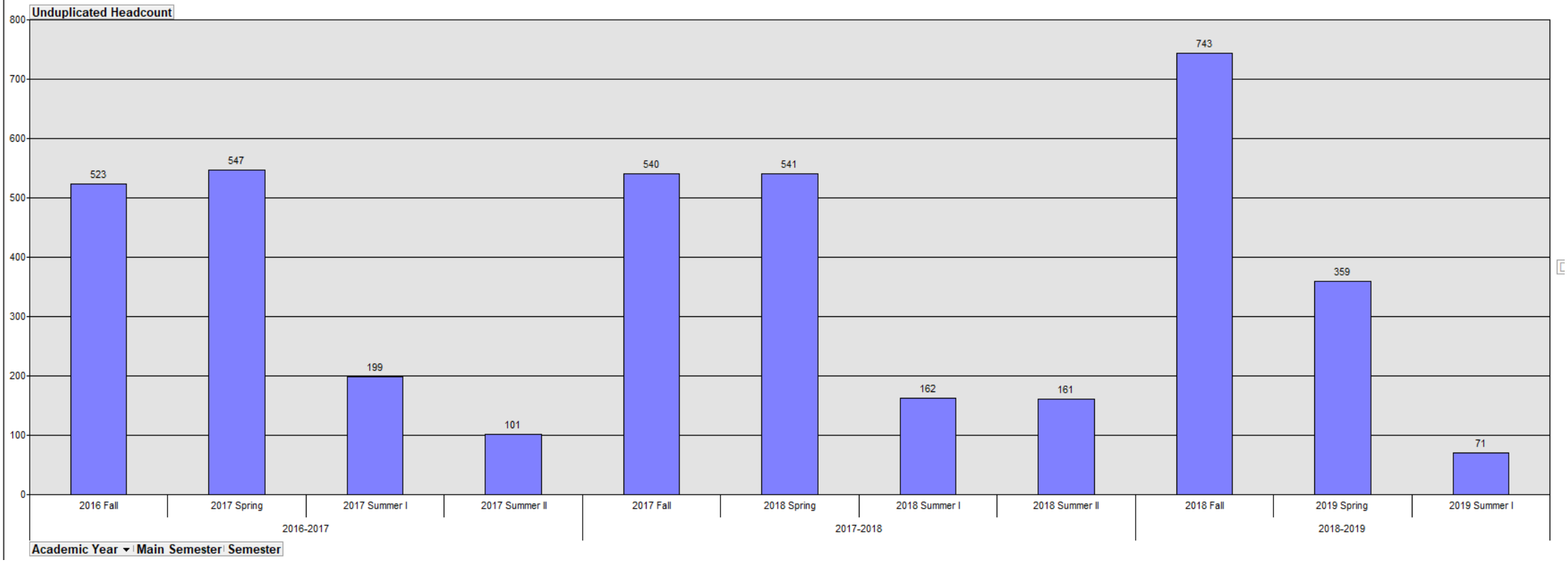
Department Dashboard: Health Sciences

Tags:

Add as favorite Edit Rename Share Delete

Enrollment | Withdrawal | Completion/Success Rate table | Completion/Success Rate graph | Grade Dist | Awards | Retention / Persistence | Student Contact/Section Credit Hrs | Faculty Course Load | Capacity Planning

Enrolled	Academic Years Ago	Division and Department	Subject and Course	Age Group	Ethnicity	Gender	Instructional Mode
Yes	(Multiple Items)	All Division and Department	(Multiple Items)	All Age Groups	All Ethnicity	All Gender	All Instructional Mode



DASH HS: Withdrawal Rate (g)

Tags:

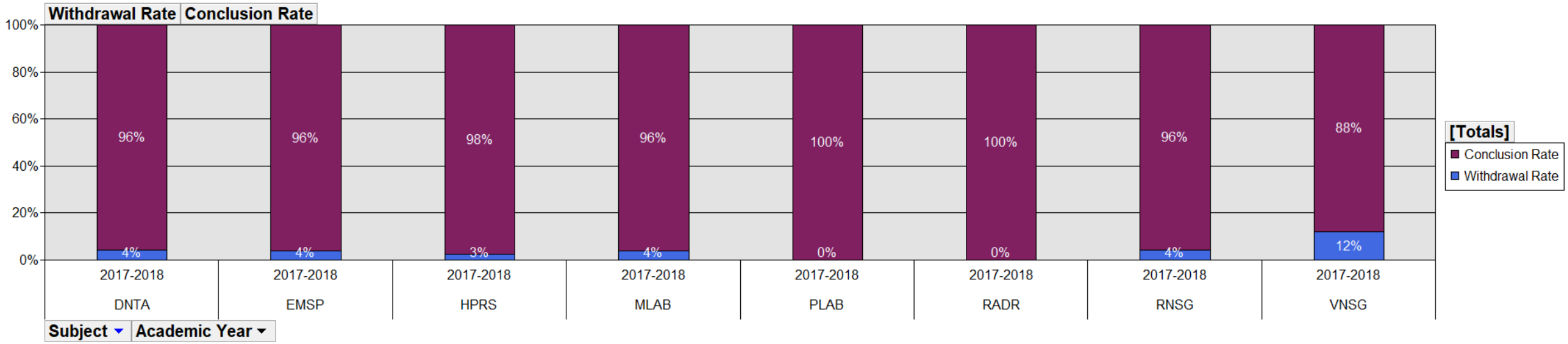
Switch to table Add as favorite Make My Own Copy Save Changes Share Delete

DASH HS: Withdrawal Rate (g)

Enrolled	Academic Years Ago	Semester	Division and Department	Instructional Mode
Yes	1	Fall	All Division and Department	All Instructional Mode

Drop MultiChart Fields Here

Multi-Chart



Department Dashboard: Health Sciences

Tags:

Add as favorite Edit Rename Share Delete

Enrollment | Withdrawal | Completion/Success Rate table | Completion/Success Rate graph | Grade Dist | Awards | Retention / Persistence | Student Contact/Section Credit Hrs | Faculty Course Load | Capacity Planning

Student Classes

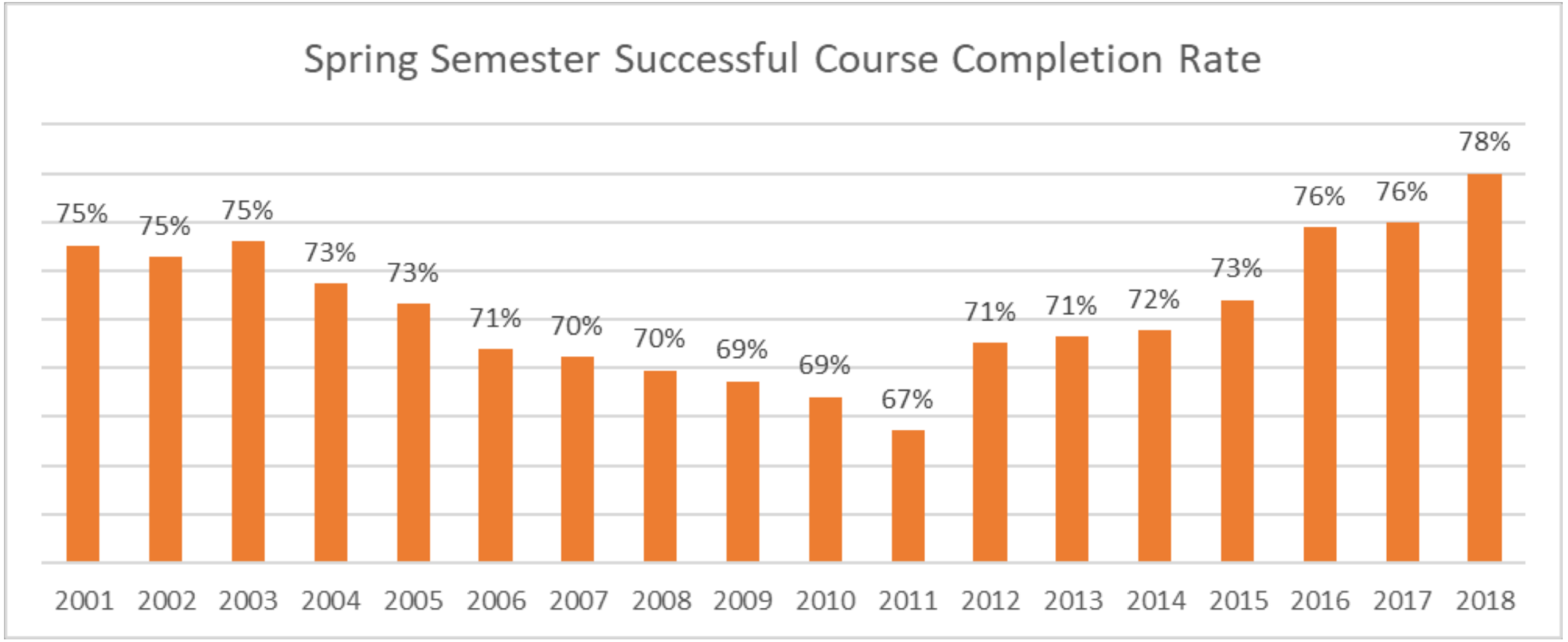
Enrolled	Academic Years Ago	Semester	Division and Department	Gender	Ethnicity	Age Group	Instructional Mode	Faculty Member
Yes	(Multiple Items)	(Multiple Items)	All Division and Department	All Gender	All Ethnicity	All Age Groups	All Instructional Mode	All Faculty

			Academic Year							
			⊞ 2000-2001		⊞ 2001-2002		⊞ 2002-2003		⊞ 2017-2018	
Subject	Course Number	Section Number	Completion Rate	Success Rate	Completion Rate	Success Rate	Completion Rate	Success Rate	Completion Rate	Success Rate
⊟ DNTA	⊟ 1191	001			100%	100%	100%	100%		
		00A			100%	100%				
		Total			100%	100%	100%	100%		
	⊞ 1202								96%	96%
	⊞ 1205		93%	93%						
	⊞ 1245		93%	93%	95%	95%	79%	79%	96%	96%
	⊞ 1251		94%	94%						
	⊞ 1301		93%	93%					96%	96%
	⊞ 1305				86%	86%	55%	55%	96%	96%
	⊞ 1311		93%	93%	91%	91%	53%	53%	96%	96%
	⊞ 1315		93%	93%	91%	91%	55%	55%	96%	96%
	⊞ 1351				91%	91%	58%	58%		
	⊞ 1401				86%	86%	55%	55%		
	⊞ 2000								81%	81%
	⊞ 2150		100%	100%						
	⊞ 2260				100%	100%	100%	100%		
	⊞ 2360		100%	100%						
	Total		95%	95%	92%	92%	63%	63%	94%	94%
⊞ EMSP			83%	83%	95%	95%	91%	91%	93%	93%
⊞ HPRS			85%	85%	83%	83%	92%	92%	96%	96%
⊞ MLAB			83%	83%	84%	84%	88%	85%	88%	85%
⊞ PLAB							89%	89%	88%	88%
⊞ RADR									100%	100%
⊞ RNSG			91%	90%	94%	92%	93%	90%	95%	92%
Grand Total			88%	88%	94%	93%	90%	89%	94%	93%

SO WHAT!?

- Student Success Strategies Identified and Implemented to aid Student Success in Every Program or Discipline
- Data Skeptics Became Data Supporters
- Faculty are engaged in the Data and use of Data for Decision Making
- More Research Questions
- Fall 2015 Department Chair Presentations to the Board of Trustees

Improved Successful Course Completion Rates



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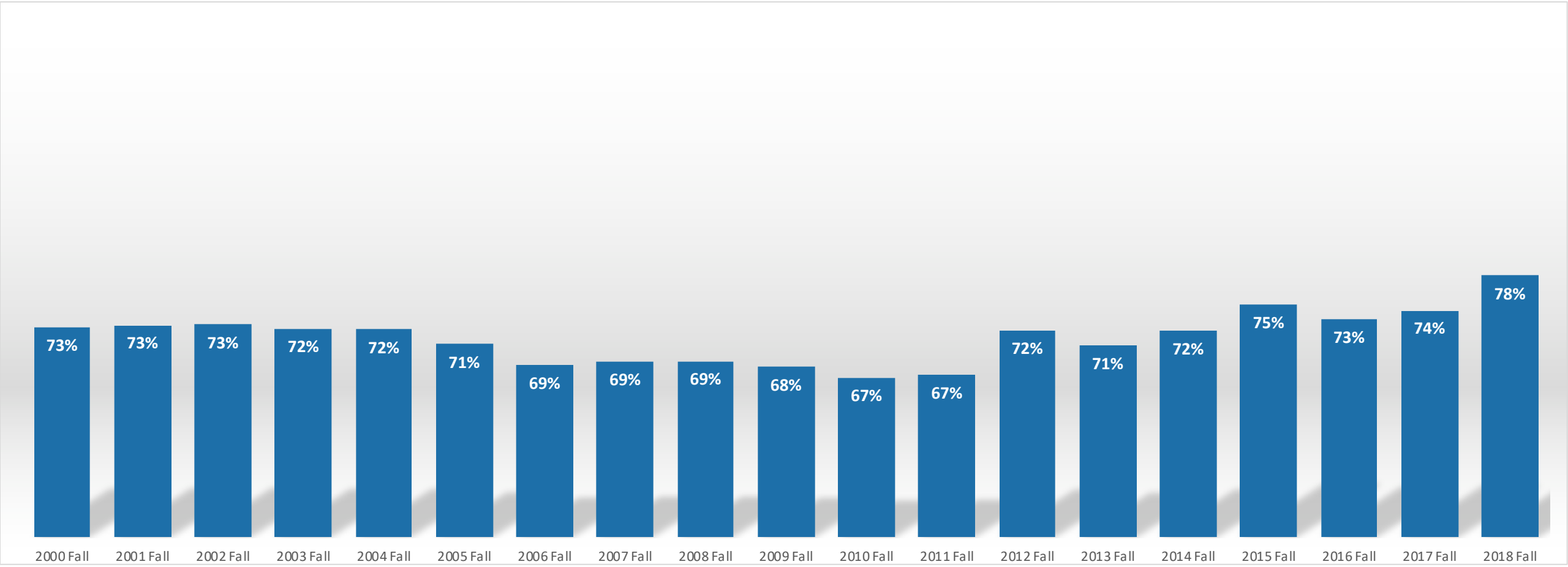
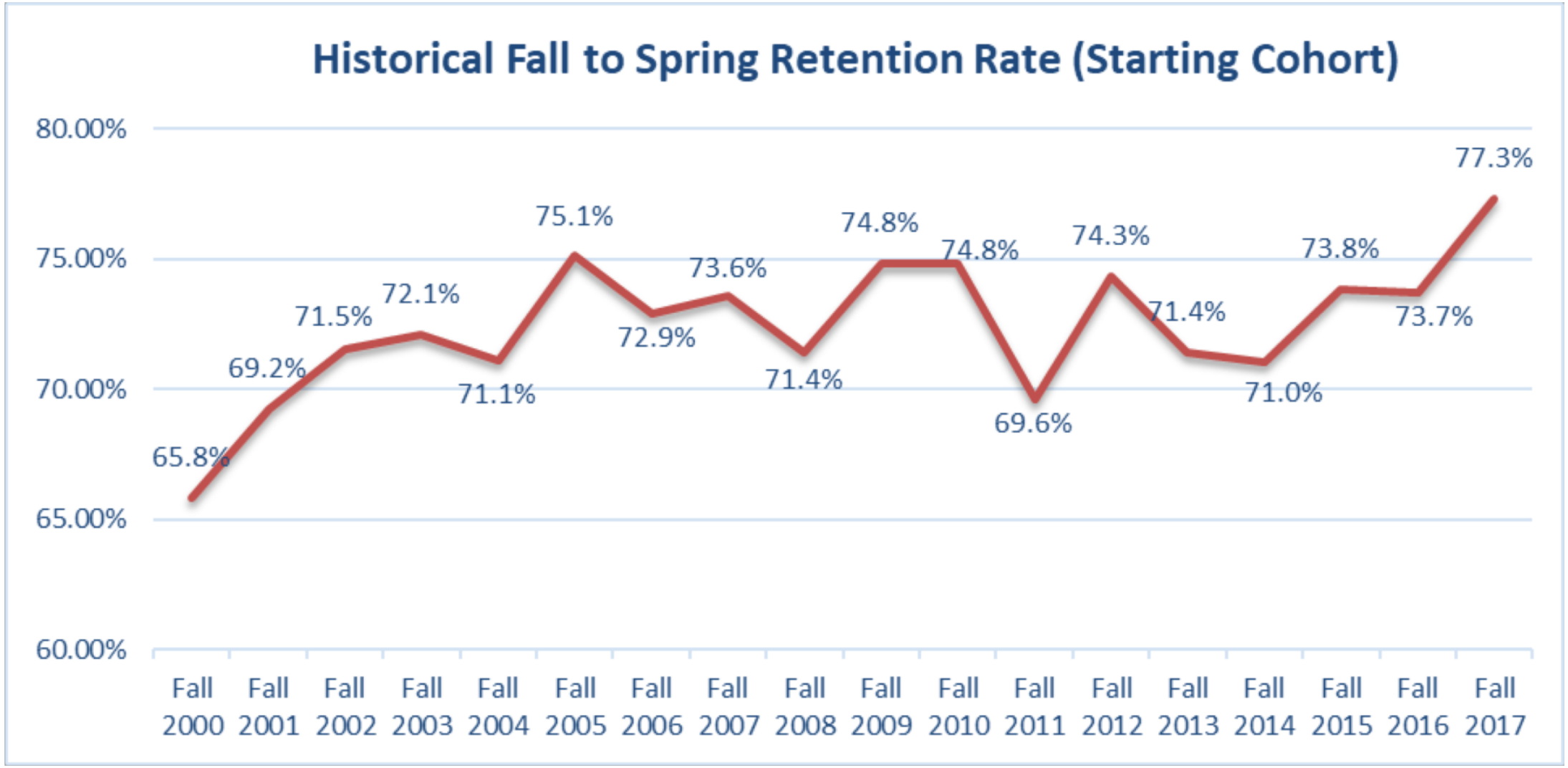


Improved Fall to Spring Retention Rates



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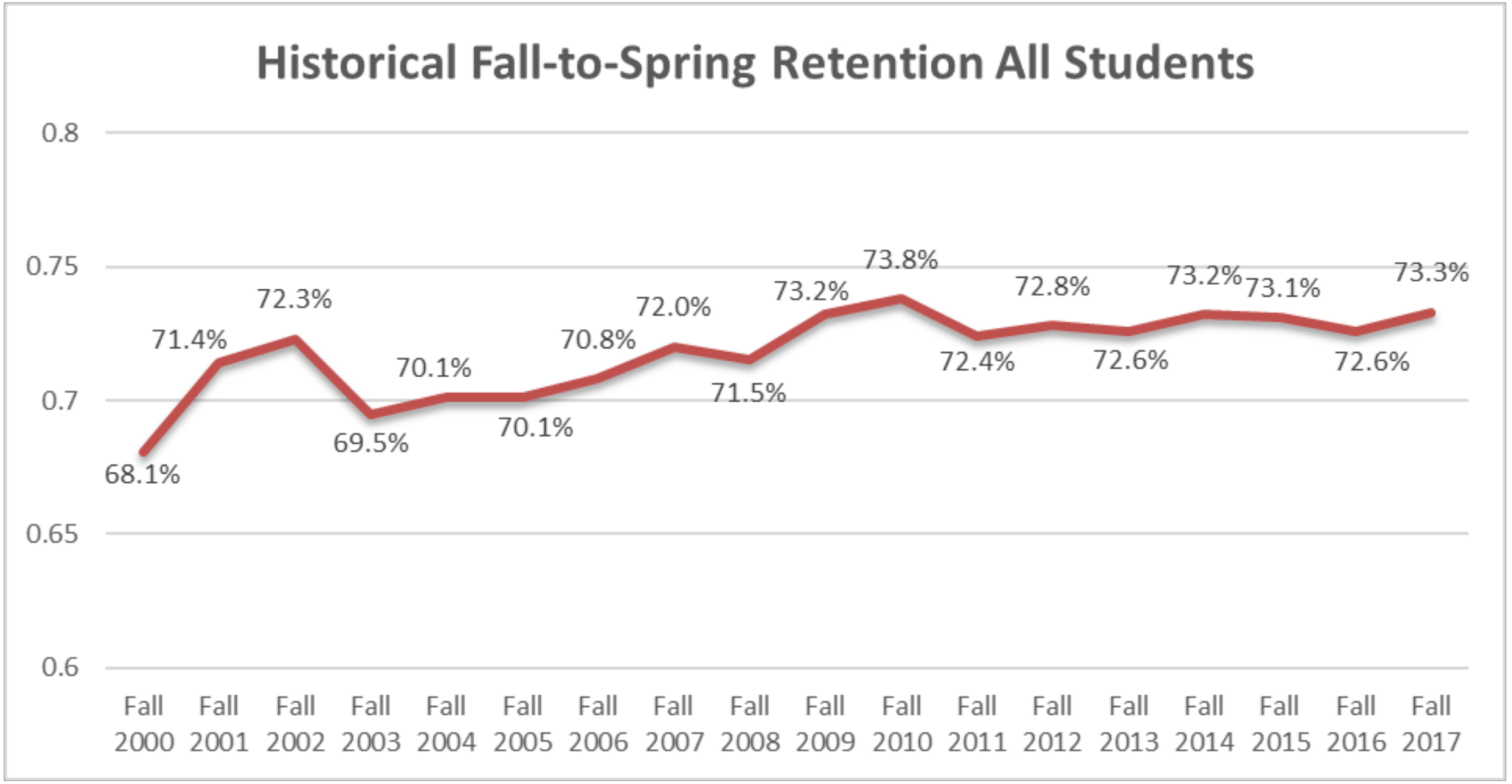

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