

OUT WITH THE OLD, IN WITH THE NEW- A PATH TO MODERNIZING A UNIVERSITY REPORTING TOOL

TAIR 2023 – Jamie Wood, Simon Smith, Toni Floyd, and Randall Price

LEARNING OUTCOMES

- Learn about Tarleton State University's ongoing journey from outdated reporting tools to interactive dashboards
- Identify potential ways to modernize reporting at your institution
- Realize the importance of teamwork in an IR office



WHERE WE STARTED

Tabular Reports

- Minimal ability to interact with data
- Output is static and must be formatted in Excel
- Too Many Reports
 - Over 225 reports spanning multiple divisions and subject matter



- Reports can be hard to find
- Data is not always available in the way it is needed



WHERE WE ARE GOING

- Interactive Dashboards
 - Highly interactive many filters, ability to drill down
 - Download charts, tabular data, both
- Many Reports in one Dashboard
 - Combine iterative tabular reports into one dashboard via filters
- Excited Users
 - Dashboards make searching for reports extinct
 - Data can be filtered to the needs of the user



THE DECISION PROCESS

Testing Systems

- PowerBl
- Tableau
- ibi WebFOCUS Web Designer
- Spotfire

Institutional Support

- Must have buy-in from administrators
- Conduct research to present proposal for an enterprise level data reporting solution that can grow with the university

Proof of Concept – Build Something



ENROLLMENT COMPARISON REPORT

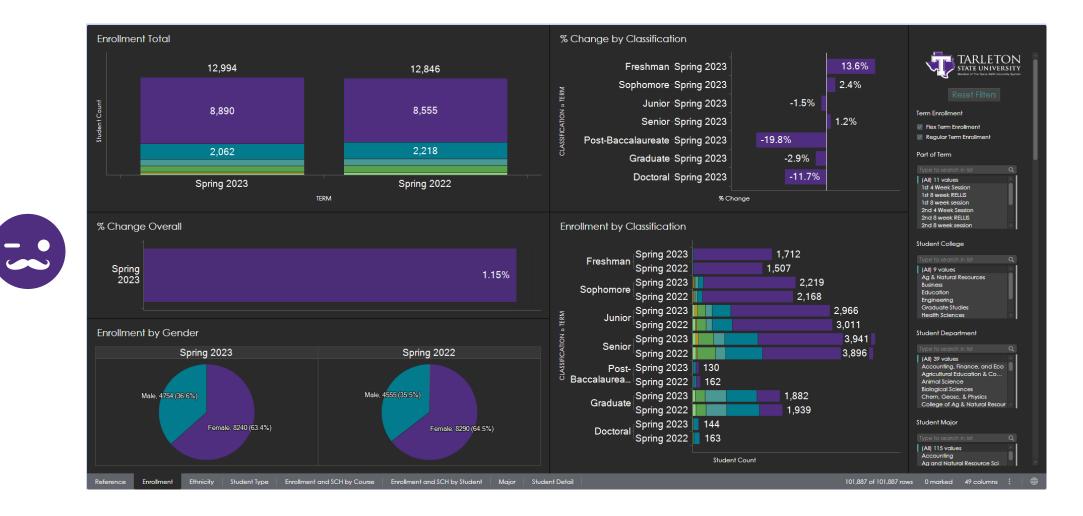
TARLETON STATE UN A Member of the Texas A&M Univers Welcome T Certified Data T Academic Affairs T Admissions	sity System	Registrar TRLL Frolment Numbers				ton State Ur t Comparison					
Enrollment		INIVERSITY		S Spring 2023	Flex 2023 t Flex 2022 Entry	o Spring 2022 Spring 2023 Total	Class Day - 02 Spring 2022	Flex 2021 Entry	Spring 2022 Total	Change	Percent Change
Enrollment Comparison	A Member of the Texas A&M U										
Enrollment Comparison by College	U		Level								
Enrolment Comparison by College			Freshmen	1,708	136	1,739	1,499	121	1,540	199	12.92%
Enrollment Comparison by College by Site		tinct Count Of All Students Across A		2,204	323	2,253	2,149	258	2,189	64	2.92%
Enrollment Comparison by College by Site	Waco, Midlothian, And Online)	<u>.</u>	Junior	2,932	771	3,006	2,979	679	3,049	(43)	-1.41%
Enrollment Comparison by College Dept Prev Year Dept		1	Senior	3,910	1,362	4,231	3,859	1,170	4,163	68	1.63%
Enrollment Comparison by College Dept SCH	Semester Year		Post-Baccalaureate	127	46	144	158	41	172	(28)	-16.28%
Enrollment Comparison by College Dept SCH	Spring	Registration Perio		1,784	575	1,920	1,852	645	2,019	(99)	-4.90%
Enrollment Comparison by College SCH			Doctoral	144	11	144	163	12	163	(19)	-11.66%
Enrollment Comparison by College SCH		Registration - Reg	stre Total Enrollment	12,809	3,224	13,437	12,659	2,926	13,295	142	1.07%
Enrollment Comparison by Course	Registration Period	Start of Semester	Fir Gender								
Enrollment Comparison by Course	Start of Semester 🗸 🗸		Male	4,686	1,229	4,913	4,482	1,126	4,747	166	3.50%
Enrollment Comparison by Headcount and FTSE by Maj SCH by Dept		Summer Session -		8,123	1,995	8,524	8,176	1,800	8,547	(23)	27%
Enrollment Comparison by Major	Registration Day	with the First Clas	Not-Reported	0	0	0	1	0	1	(1)	-100.00%
Enrollment Comparison by Major		Site - Where the c	ou Ethnicity								
Enrollment Comparison by Major by Site	26th Day ❤		Asian	156	41	166	146	43	161	5	3.11%
Enrollment Comparison by Major by Site			Black or African American	957	322	1,034	1,020	307	1,103	(69)	-6.26%
Enrollment Comparison by Online Course	0.0	Submit	Foreign Nationals/Non-Resident	104	20	108	89	16	93	15	16.13%
Enrollment Comparison by Online Course	V.	abilite	Hispanic	2,859	746	3.007	2,758	622	2,882	125	4.34%
Enrollment Comparison by Online Course SCH			American Indian/Alaskan Native	73	16	75	56	14	59	16	27.12%
Enrollment Comparison by Online Course SCH			Native Hawaiian or Pacific Islander	10	4	12	8	3	9	3	33.33%
Enrollment Comparison by Site			Two or More Races	444	110	466	486	111	509	(43)	-8.45%
Enrollment Comparison by Site by Major Total SCH			White/Non-Hispanic	7,947	1,905	8,299	7,995	1,789	8,372	(73)	87%
Enrollment Comparison by Site by Major Total SCH			Unknown/Not Reported	259	60	270	101	21	107	163	152.34%
Enrollment Comparison by Site Total SCH			Semester Credit Hours	200	50	210	101		.07	100	102.0470
Enrollment Comparison by Site Total SCH			Lower Level UG	72,123	3,211	75,334	67,877	2,699	70,576	4,758	6.74%
Enrollment Comparison by Student Type			Upper Level UG	61,489	6,641	68,130	59,696	5,328	65,024	3,106	4.78%
Enrollment Comparison by Student Type			Undergraduate	133,612	9,852	143,464	127,573	8,027	135,600	7,864	5.80%
Enrollment Comparison by Students Campus			Masters	10.327	1,934	12.253	10.915	2.207	13,000	(858)	-6.54%
Enrollment Comparison by Students Campus			Doctoral	735	24	759	873	2,207	900	(141)	-15.67%
Enrollment Comparison by Students College and Dept	More than		Total SCH	144.674		156.476	139,361	10.261	149.611		
Enrollment Comparison by Students College and Dept				144,074	11,810	150,470	139,301	10,201	149,011	6,865	4.59%
			Full-Time Student Equivalents	1 000	044.57	5 000	1 505 15	170.47	1 345	0.17.05	
	25 EC		Lower Level UG	4,808.20	214.07	5,022.27	4,525.13	179.93	4,705.07	317.20	6.74%
	ZUEU		Upper Level UG	4,099.27	442.73	4,542.00	3,979.73	355.20	4,334.93	207.07	4.78%
			Undergraduate	8,907.47	656.80	9,564.27	8,504.87	535.13	9,040.00	524.27	5.80%
	Reports!		Masters	860.58	161.17	1,021.08	909.58	183.92	1,092.58	-71.50	-6.54%
	Repuits!		Doctoral	81.67	2.67	84.33	97.00	3.00	100.00	-15.67	-15.67%
			Total FTSE	9,849.72	820.63	10,669.68	9,511.45	722.05	10,232.58	437.10	4.27%

Note: Flex Entry Enrollments -- includes late courses from the previous semester - Date Run: Feb 20, 2023



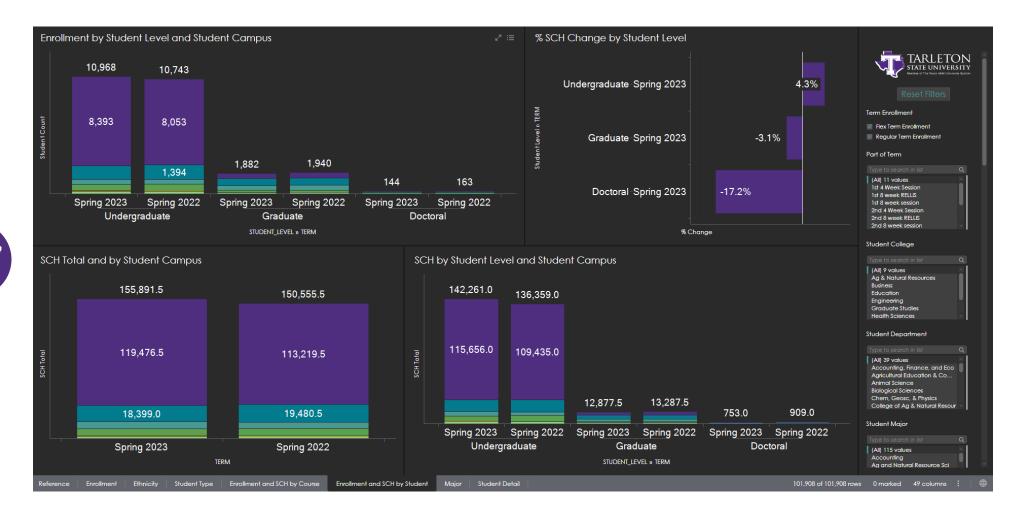
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ENROLLMENT COMPARISON DASHBOARD





ENROLLMENT COMPARISON DASHBOARD





REPEATED COURSES AND TABULAR REPORT CONVERSION

Simon Smith



ATHLETICS REPEATED COURSES



- Spotlight problem courses
- Provide KPI of course sport and course hours repeated
- Repeated course
 breakdown
- Demographic data





CORPS OF CADETS TABULAR REPORT CONVERSION

- Functional test for converting a tabular report
- Shortcut buttons for filters and page navigation
- Pivoted data
- Graph
 representation

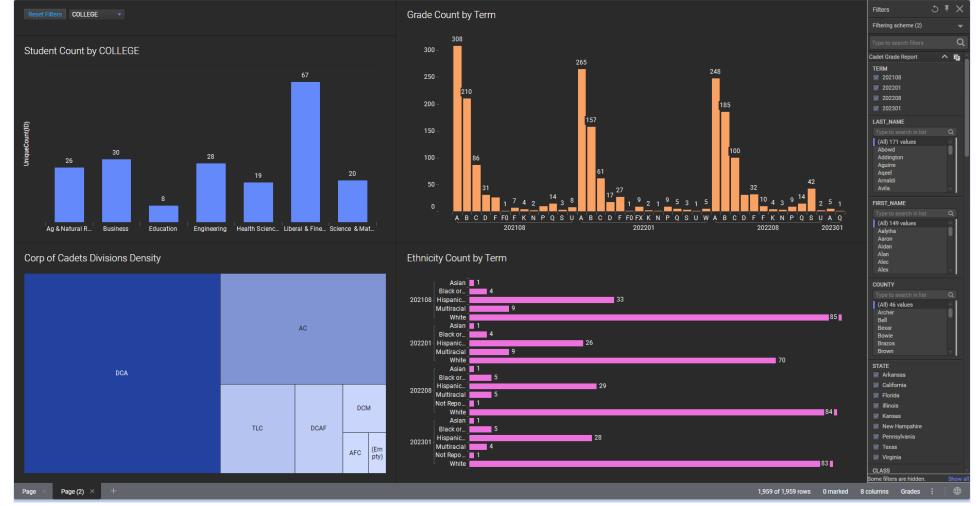


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108 Texas Pilot	Point High School	Senior	JR	Ag Services an	d Development	Ag & Natural Resour	ces Agricultural and Consumer S	Sci White	М	COC	AC	3.40	3.00	3.04	Bexar	
108 Texas Texa	as High School	Senior	JR	Wildlife Sus & E	Ecosystem Sci	Ag & Natural Resour	ces Wildlife Sus & Ecosystem So	ci White	М	COC	TLC	2.21	2.63	2.57	Bowie Brazos	
108 Texas San	Antonio Christian Hs	Sophomore	FR	Wildlife Sus & E	Ecosystem Sci	Ag & Natural Resour	ces Wildlife Sus & Ecosystem So	ci White	М	COC	DCA	2.71	2.93	2.93	Brown	
108 Texas Colle	ege Station High School	Junior	FR	Wildlife Sus & E	Ecosystem Sci	Ag & Natural Resour	ces Wildlife Sus & Ecosystem So	ci Multiracial		COC	AC	3.35	3.70	3.70		
108 Texas Byro	n Nelson High School	Sophomore	FR	Animal Science		Ag & Natural Resour	ces Animal Sci & Veterinary Tech	h White	М	COC	DCA	2.79	3.18	3.18	STATE	
108 Texas Wins	ston Churchill High Schoo	Freshman		Undeclared Ag	& Env Scienc	Ag & Natural Resour	ces College of Ag & Env Science	es Hispanic or Latino	М	COC	DCA	2.08	2.08	2.08	Arkansas	
108 Texas Victo	oria West High School	Freshman		Agribusiness		Ag & Natural Resour	ces Div Ag Business & Ag Econ	White	М	COC	DCA	1.69	1.69	1.69	California	
108 Texas Zeph	hyr High School	Senior	SR	Wildlife Sus & E	Cosystem Sci	Ag & Natural Resour	ces Wildlife Sus & Ecosystem Sc	ci White	М	COC	AC	2.77	2.54	2.59	Florida	
108 Texas Mac	Arthur High School	Junior	S0	Animal Science		Ag & Natural Resour	ces Animal Sci & Veterinary Tech	h Hispanic or Latino		COC	AC	2.94	3.01	3.01	Illinois	
108 Texas Roys	se City High School	Junior	SO	Agribusiness		Ag & Natural Resour	ces Agricultural and Consumer S	Sci White	М	COC	AC		3.30	3.30	🔽 Kansas	
108 Texas La V	ernia High School	Sophomore	FR	Animal Science		Ag & Natural Resour	ces Animal Sci & Veterinary Tech	h Hispanic or Latino	М	COC	DCA	3.00	2.90	2.97	New Hampshire	
08 Texas Nort	hwest High School	Sophomore	FR	Agribusiness		Ag & Natural Resour	ces Agricultural and Consumer S	Sci White	М	COC	DCA	2.71	2.70	2.70	Pennsylvania	
108 Texas Inde	pendence High Sch-Frisc	Freshman		Animal Science		Ag & Natural Resour	ces Animal Science	White		Texas						
108 Texas Dent	ton High School	Freshman	FR	Animal Science		Ag & Natural Resour	ces Animal Science	White		COC	DCA	3.20	3.14	3.20	Virginia	
108 Texas Whit	tney High School	Freshman		Undeclared Ag	& Env Scienc	Ag & Natural Resour	ces College of Ag & Env Science	es White	М	COC	DCA				CLASS	
2108 Texas Rock	kwall Heath High School	Junior	FR	Wildlife Sus & E	Ecosystem Sci	Ag & Natural Resour	ces Wildlife & Natural Resources	s Hispanic or Latino		COC	DCA	2.91	3.09	2.91	✓ Freshman	
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COLLEGE	202108 202201 202208	nt Avg GPA 18 2.90 13 2.89 18 2.89	Avg Term GPA 2.87	2.88 2.89 2.82	18 13 18	Avg GPA Avg Ten 2.90	m GPA Avg Inst GPA 2.87 2.88 2.68 2.89 2.82 2.82	Student Count by Major Accounting Ag Services and Developm	Fres	hman Graduate 1 - 1 - 6 -			1 2 4 11		Junior Junior Senior PREV_CLASS FR JR	
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CORPS OF CADETS CONTINUED

- Graphs to highlight key data points
- Multi-use graph
- Tree map for density representation





RETENTION AND GRADUATION UPDATE

Toni Floyd



RETENTION AND GRADUATION

We started with spreadsheets with the overall First-Time In College, Transfer and Graduate student cohorts for each term. We received multiple requests for this same data broken down various ways (by gender, ethnicity, etc.)

		1st Spring	2nd Fall	2nd Spring	3rd Fall	3rd Spring	4th Fall	4th Spring	5th Fall	5th Spring	6th Fall	6th Spring
Fall	2016	Spring 2017	Fall 2017	Spring 2018	Fall 2018	Spring 2019	Fall 2019	Spring 2020	Fall 2020	Spring 2021	Fall 2021	Spring 2022
Cohort	2169 Enrolled	1891	1456	1324	1179	1129	1009	857	458	273	152	84
	Cumulative Retention	87.18%	67.13%	61.04%	54.36%	52.05%	46.52%	39.51%	21.12%	12.59%	7.01%	3.87%
	Cumulative Departures	278	713	845	<mark>981</mark>	1022	1055	1075	1074	1094	1103	1115
• •		0	0	9	9	<mark>8</mark> 5	134	398	164	114	54	31
_	Semester Graduates Not Enrolled	0	0	0	0	0	2	0	2	3	1	3
	Cumulative Graduates	0	0	9	18	103	237	635	799	913	967	998
	Cumulative Grad Rate	0.00%	0.00%	0.41%	0.83%	4.75%	10.93%	29.28%	36.84%	42.09%	44.58%	46.01%
		1st Spring	2nd Fall	2nd Spring	3rd Fall	3rd Spring	4th Fall	4th Spring	5th Fall	5th Spring	6th Fall	6th Spring
Fall	2017	Spring 2018	Fall 2018	Spring 2019	Fall 2019	Spring 2020	Fall 2020	Spring 2021	Fall 2021	Spring 2022	Fall 2022	Spring 2023
Cohort	1899 Enrolled	1683	1314	1212	1100	1052	959	806	379	216	117	
	Cumulative Retention	88.63%	69.19%	63.82%	57.93%	55.40%	50.50%	42.44%	19.96%	11.37%	6.16%	
	Cumulative Departures	216	585	<mark>6</mark> 87	792	829	841	864	881	894		
	Semester Graduates	0	0	7	11	81	129	410	149	90		
		_										
	Semester Graduates Not Enrolled	0	0	0	0	0	0	1	1	2		
		0	0	0	0 18	0 99	0 228	1 638	1 787	2 877		

FTIC ANNUAL RETENTION RATES AND GRADUATION RATES BY COHORT CLASS



RETENTION AND GRADUATION

- Creating a dashboard with even basic charts can create a synergistic result leading to discoveries and questions
 - Additional questions may be answered by adding a chart or entire new dashboard
 - Adding Filters
 - Filters allow the users to look at the same data for multiple combinations of subgroups
 - May eliminate some of your reporting requests



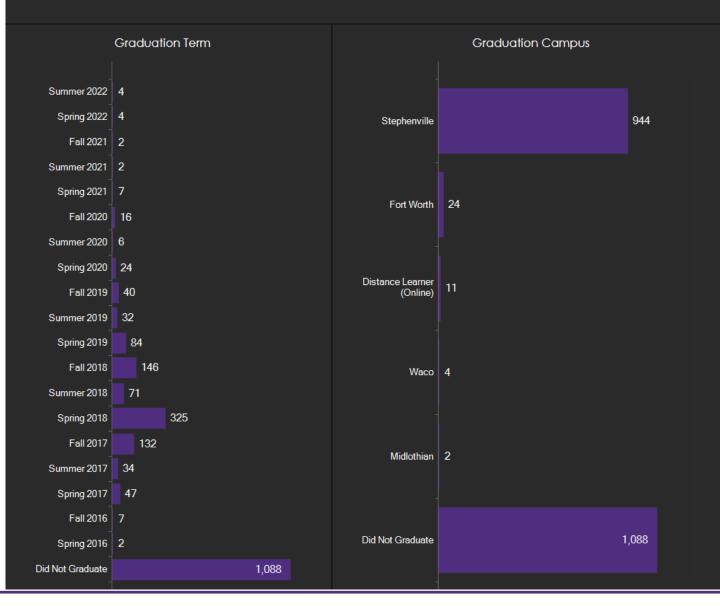
FIRST PUBLISHED ITERATION



	FTI	C Retentior	n Dashbog	ard		Term and Filtered Num				
		Spring terms include su	ummer graduation			Fall 2014	2073	TARLETON STATE UNIVERSITY NetGer of The Texas Add University System		
	1st S	Spring			1st Spring	1st Spring	Reset Filters			
15.63%		84.37%			Total Retained = 1749 Retention Rate = 84.37% Cumulative Total Graduates = 0 Graduation Rate = 0.00%	Retained-Did NOT Graduate Departed	1,749	Fall 2021 Fall 2020 Fall 2019 Fall 2018 Fall 2017 Fall 2016		
	2nc	d Fall			2nd Fall	2nd Fall	 Fall 2015 Fall 2014 			
33.77%		66.23%			Total Retained = 1373 Retention Rate = 66.23% Cumulative Total Graduates = 0 Graduation Rate = 0.00%	Retained-Did NOT Graduate Departed	1,373 700	Full-Time Part-Time 12 hours Full-Time Part-Time Full-Time Part-Time 15 hours Full-Time		
	4th) Year			4th Year Total Retained = 829	4th Yea		Part-Time College 1st term		
49.25%		20.94%	19.05%	10.76%	Retention Rate = 39.99% Cumulative Total Graduates = 618 4 Year Graduation Rate = 29.81%		3 395 434 <u>1,021</u>	Type to search in list Q (All) 7 values Ag & Natural Resources Business Education Engineering Health Sciences Liberal & Fine Arts		



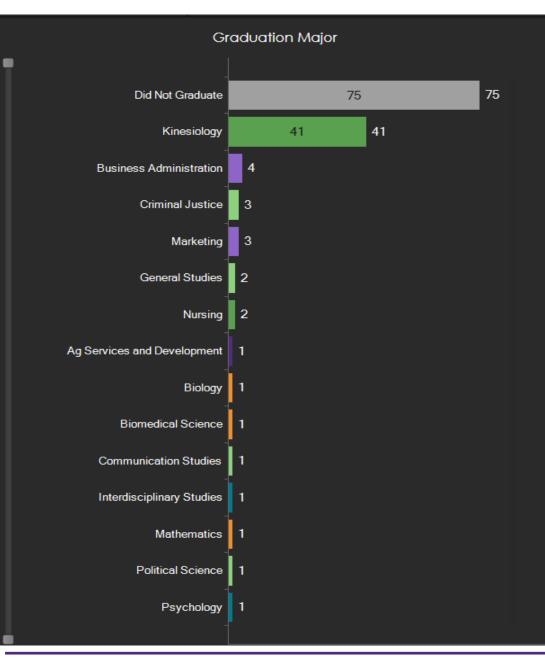
FTIC Retention Dashboard



ADDED 2ND TAB

Added charts with graduation term and campus





ADDED GRADUATION MAJOR TO 2ND TAB

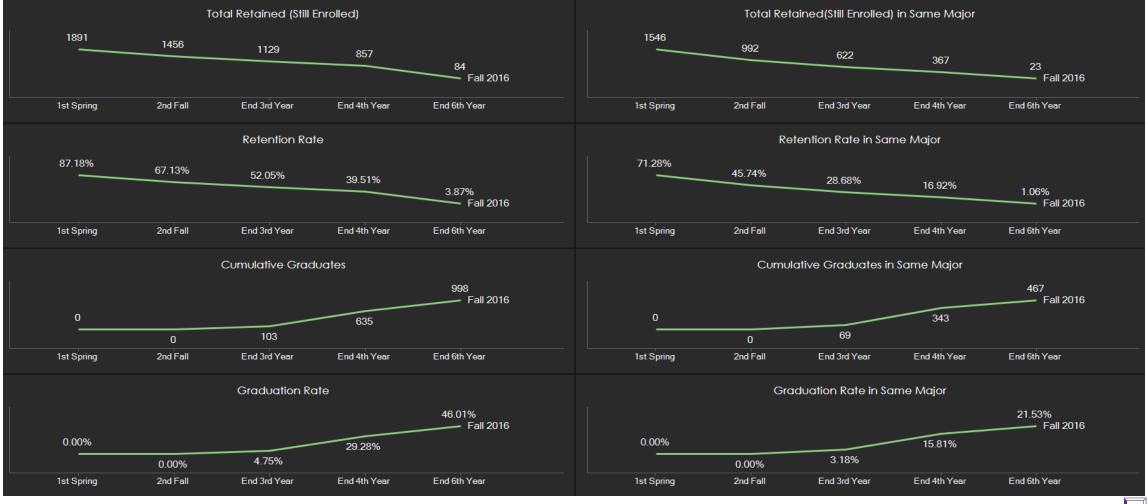


ADDED RETAINED IN SAME MAJOR

1st Spring 15.63% 84.37%	1st Spring Total Retained = 1749 Retention Rate = 84.37% Cumulative Total Graduates = 0 Graduation Rate = 0.00%	1st Spring Retained-Did NOT Graduate Departed 324	Reset Filters Term Fail 2021 Fail 2020 Fail 2019 Fail 2018 Fail 2017 Fail 2016 Fail 2015	
2nd Fall 33.77% 66.23%	2nd Fall Total Retained = 1373 Retention Rate = 66.23% Cumulative Total Graduates = 0 Graduation Rate = 0.00%	2nd Fall in Same Major Total Retained = 880 Retention Rate = 42.45% Cumulative Total Graduates = 0 Graduation Rate = 0.00%	2nd Fall Retained-Did NOT Graduate Departed 700	 Fall 2014 Full-Time Part-Time 12 hours Full-Time Part-Time Full-Time Part-Time 15 hours Full-Time
4th Year 49.25% 20.94% 19.05% 10.76%	4th Year Total Retained = 829 Retention Rate = 39.99% Cumulative Total Graduates = 618 4 Year Graduation Rate = 29.81%	4th Year in Same Major Total Retained = 356 Retention Rate = 17.17% Cumulative Total Graduates = 293 4 Year Graduation Rate = 14.13%	4th Year Graduated-Cumulative 223 Retained-Graduated 395 Retained-Did NOT Gr 434	Part-Time College 1st term Type to search in list Q (All) 7 values Ag & Natural Resources Business Education Engineering Health Sciences
6th Year 52.00% 44.43%	6th Year Total Retained = 74 Retention Rate = 3.57% Cumulative Total Graduates = 950	6th Year in Same Major Total Retained = 20 Retention Rate = 0.96% Cumulative Total Graduates = 407	Graduated-Cumulative Retained-Graduated This Term Retained-Did NOT Graduated Cradua	Liberal & Fine Arts Major First Term Type to search in list Q (All) 59 values Accounting Administrative Systems Ag Services and Development Agribusiness Animal Science Art



NEW WAY TO PRESENT CALCULATIONS



- 1

HELPFUL HINTS

- SAVE OFTEN!!!!
- Create a template
- Look at your visualization on different computers/devices if possible.





Randy Price



FTIC PERSISTENCE

- FTIC Persistence currently is being emailed daily in the format shown below
- Task was to show this information in a more visual way

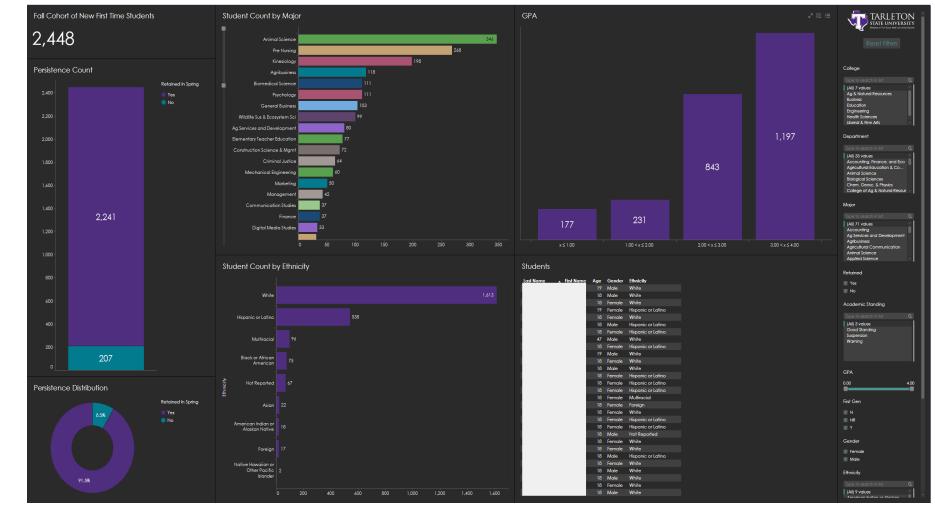


	FTIC Persistence Daily														
FALL21_COHORT	SPRING22_REG	РСТ	FALL20_COHORT	SPRING21_REG	РСТ	FALL19_COHORT	SPRING20_REG	РСТ	FALL18_COHORT	SPRING19_REG	PCT	FALL17_COHORT	SPRING18_REG	РСТ	
2,151	1,684	78.29	2,274	1,826	80.30	2,073	1,776	85.67	2,161	1,821	84.27	1,899	1,657	87.26	

	FTIC Persistence Overall																
FALL21_COHORT	SPRING22_REG	PCT	FALL20_COHORT	SPRING21_REG	PCT	FALL19_COHORT	SPRING20_REG	РСТ	FALL18_COHORT	SPRING19_REG	РСТ	FALL17_COHORT	SPRING18_REG	PCT	FALL16_COHORT	SPRING17_REG	PCT
2,151	1,684	78.29	2,274	1,966	86.46	2,073	1,828	88.18	2,161	1,885	87.23	1,899	1,683	88.63	2,169	1,891	87.18



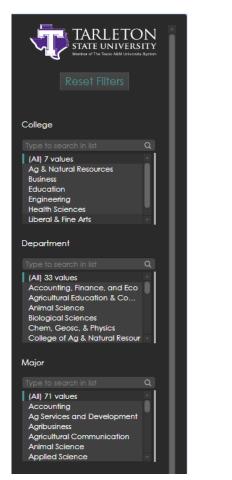
NEW LOOK

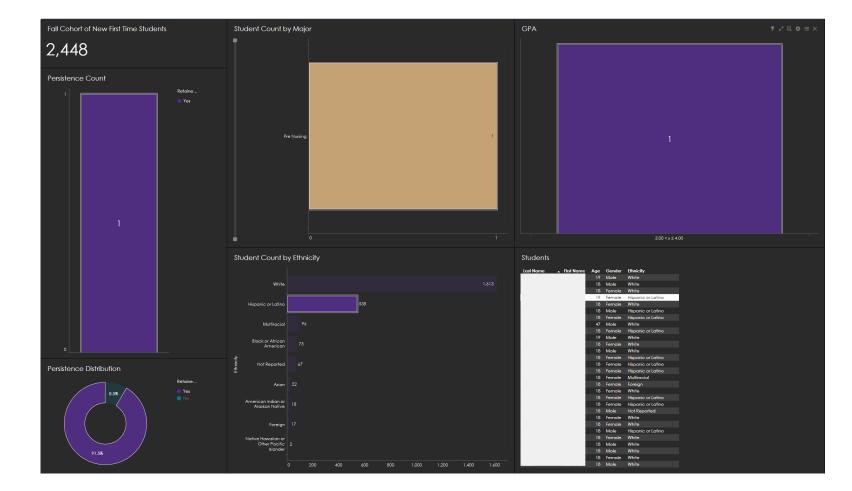




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FILTERING AND MARKING







THANK YOU!

QUESTIONS?

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