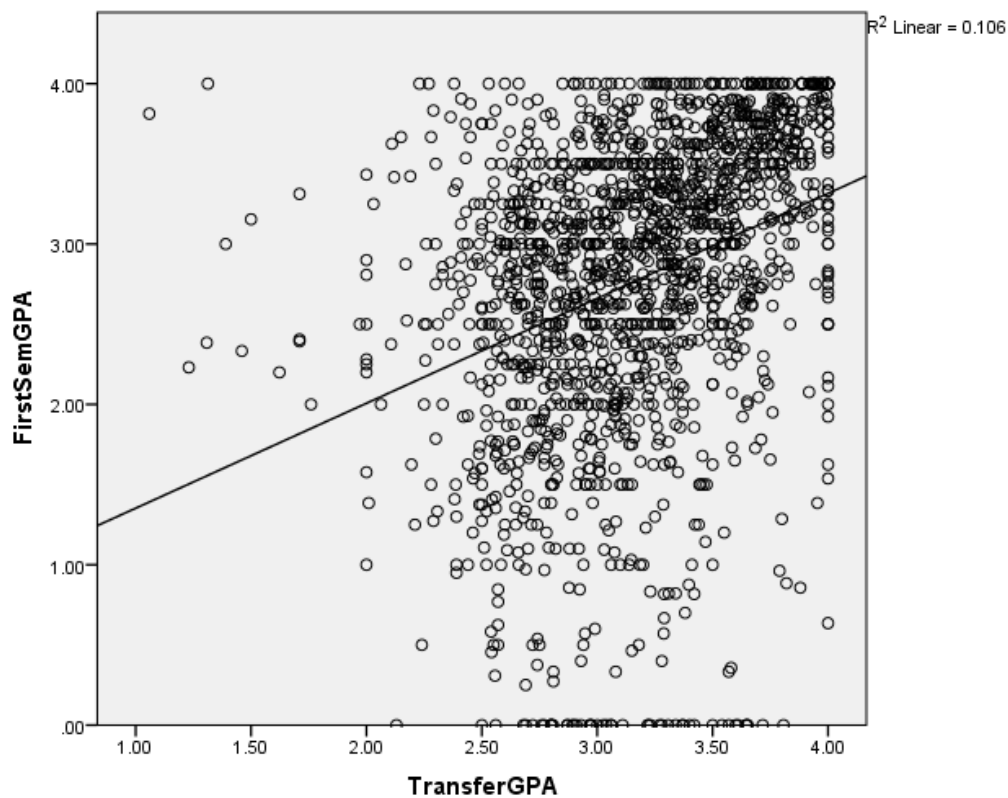


TRANSFER GPA VS COLLEGE GPA ANALYSIS

Methodology

For newly enrolled, degree-seeking transfer students in F2014, F2015, and F2016 we obtained their Transfer GPA from their last college attended prior to enrollment at NJIT. Prior GPA was available for 79% of incoming transfer students (1702/2145). The data was cleaned and any values lower than 0 and greater than 4 were removed from the analysis, resulting in 1700 Transfer GPA records. We compared their transfer GPA to their Accumulated GPA at the start of the Spring Semester. For students who did not return in any subsequent semester (until Spring 2017) we used their final recorded GPA from the fall semester. These NJIT GPAs are referred to as 'First Semester GPA' in the following figures.

F2014-F2016 Data: Transfer GPA/First Semester GPA



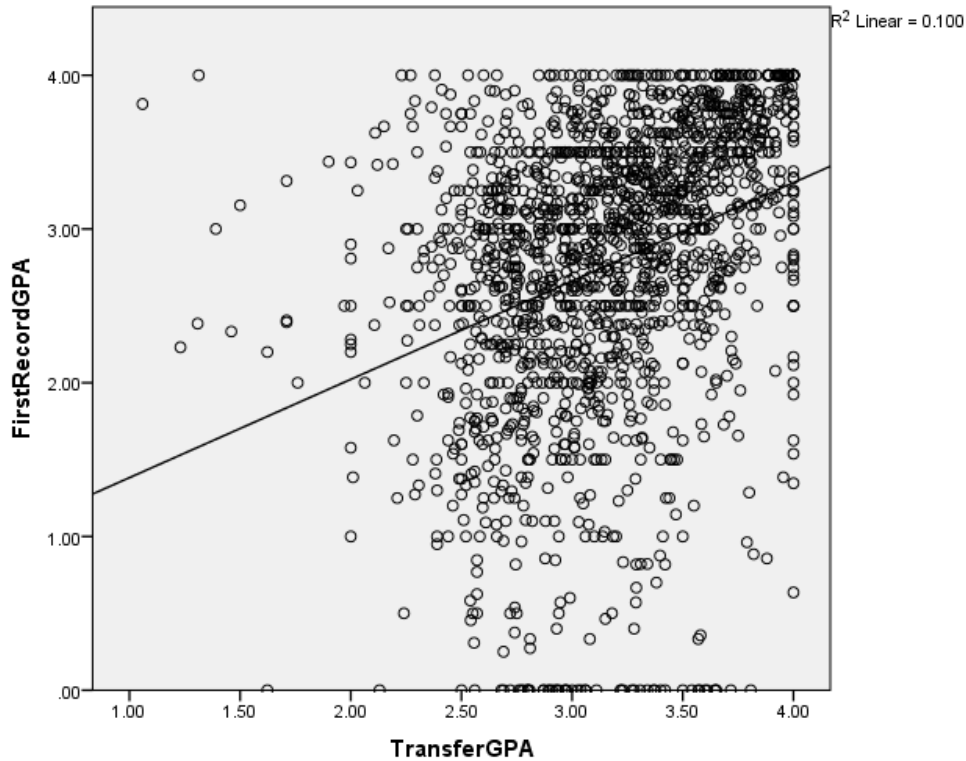
Correlations

		TransferGPA	FirstSemGPA
TransferGPA	Pearson Correlation	1	.325**
	Sig. (2-tailed)		.000
	N	1700	1643
FirstSemGPA	Pearson Correlation	.325**	1
	Sig. (2-tailed)	.000	
	N	1643	2068

** . Correlation is significant at the 0.01 level (2-tailed).

Some students did not enrolled in the spring semester but later returned and had an accumulated GPA record. To account for these students, and improve the available data on the NJIT GPA of transfer students, we created a second measure 'First Record GPA'. For students with a First Semester GPA we used the same values, but for students who enrolled again followed the spring semester we used their first recorded Accumulated GPA.

F2014-F2016 Data: Transfer GPA/First Recorded GPA



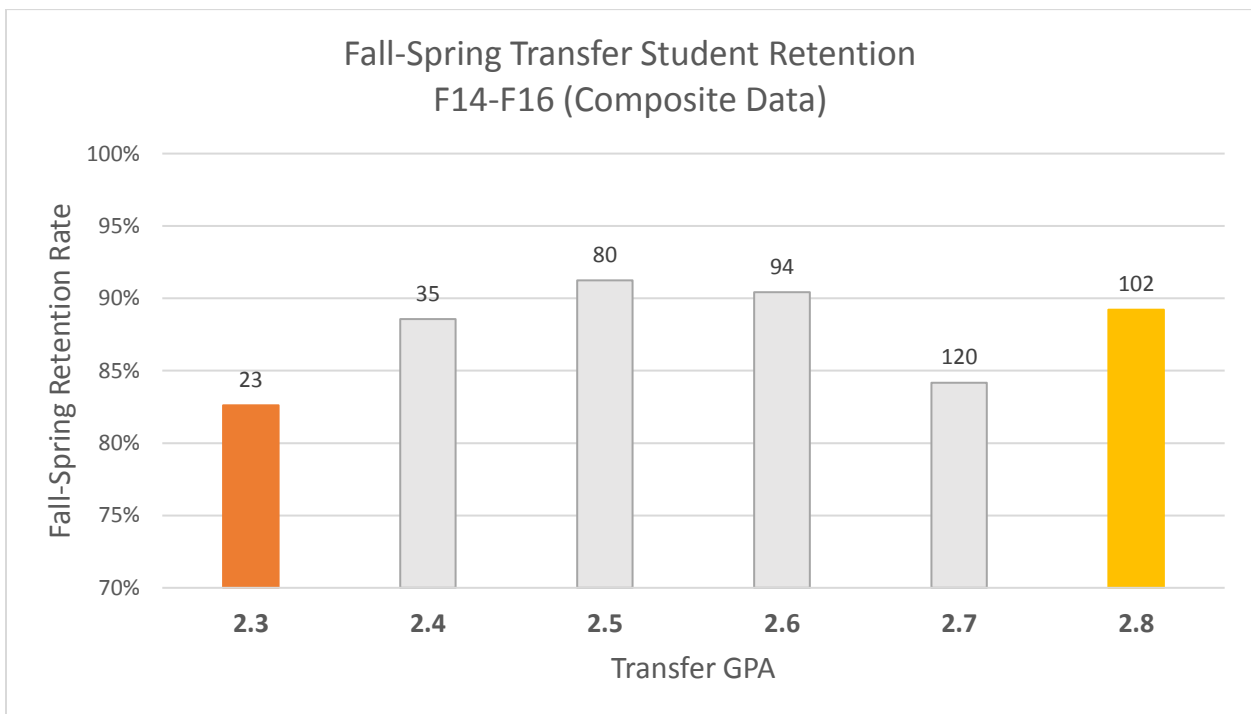
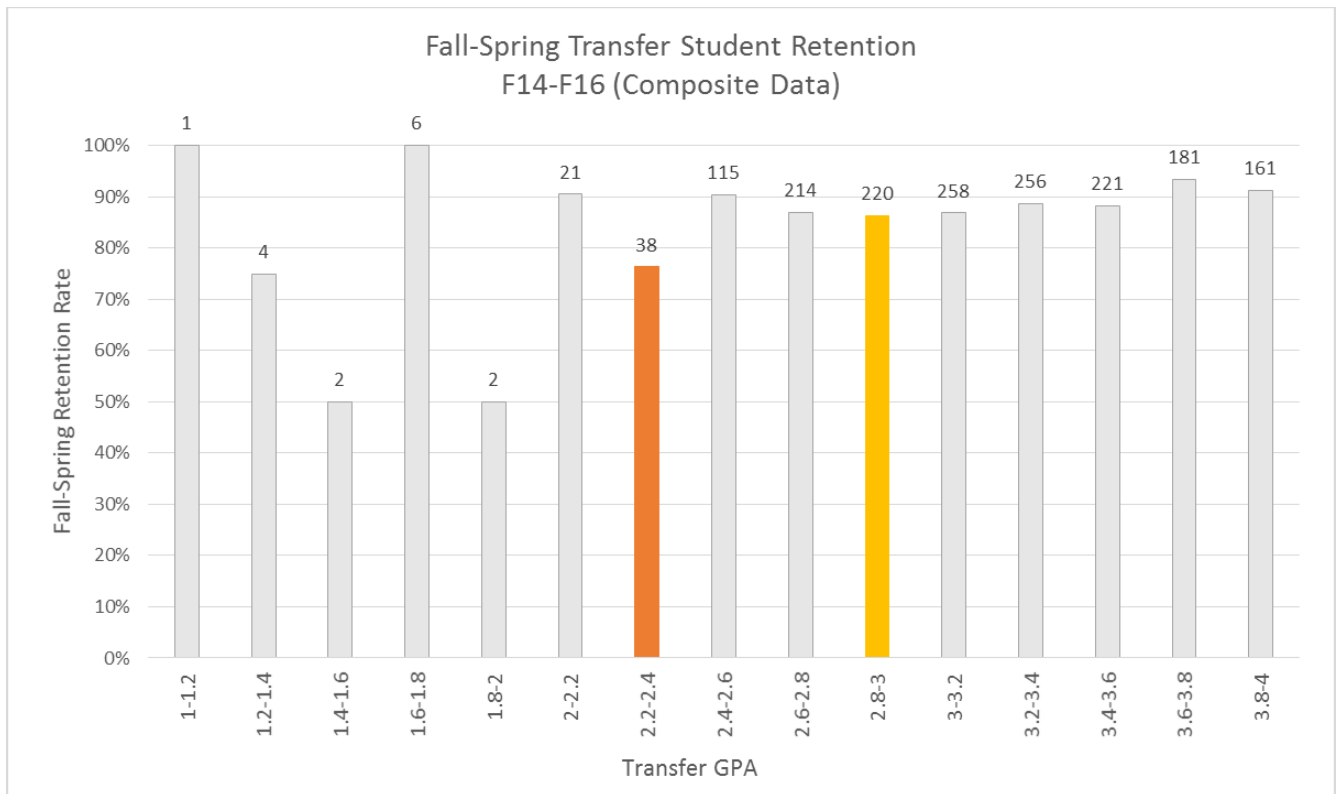
Correlations

		TransferGPA	FirstRecordGPA
TransferGPA	Pearson Correlation	1	.317**
	Sig. (2-tailed)		.000
	N	1700	1700
FirstRecordGPA	Pearson Correlation	.317**	1
	Sig. (2-tailed)	.000	
	N	1700	2145

** . Correlation is significant at the 0.01 level (2-tailed).

Retention Rates by Transfer GPA

Fall-Spring Retention Rates of New Transfer Students – Data labels show N in Group.



Retention Rates are lower for students with a Transfer GPA 2.2-2.4 than those with a transfer GPA 2.8-3.0. Comparison of the Fall-Spring retention rates in the last three years shows a declining trend for students with a GPA 2.2-2.4.

Transfer GPA Group	Fall - Spring Retention Rate				
	F2014	F2015	F2016	F14-F16 (Composite Data)	Total N
1-1.2			100%	100%	1
1.2-1.4	100%	67%		75%	4
1.4-1.6		0%	100%	50%	2
1.6-1.8	100%	100%	100%	100%	6
1.8-2	0%		100%	50%	2
2-2.2	100%	80%	100%	90%	21
2.2-2.4	87%	80%	62%	76%	38
2.4-2.6	89%	85%	97%	90%	115
2.6-2.8	85%	86%	90%	87%	214
2.8-3	91%	82%	85%	86%	220
3-3.2	89%	82%	90%	87%	258
3.2-3.4	89%	79%	95%	89%	256
3.4-3.6	93%	86%	86%	88%	221
3.6-3.8	95%	90%	95%	93%	181
3.8-4	98%	84%	93%	91%	161

Summary

Data from F2014-F2016 shows a significant positive correlation between Transfer GPA and Accumulated GPA in the first semester ($p < 0.01$) for incoming degree-seeking transfer students ($N=1642$). The correlation is evident for F2014, F2015 and F2016, with the correlation slightly weaker in F2014 (Pearson Correlation = 0.282 versus > 0.3).

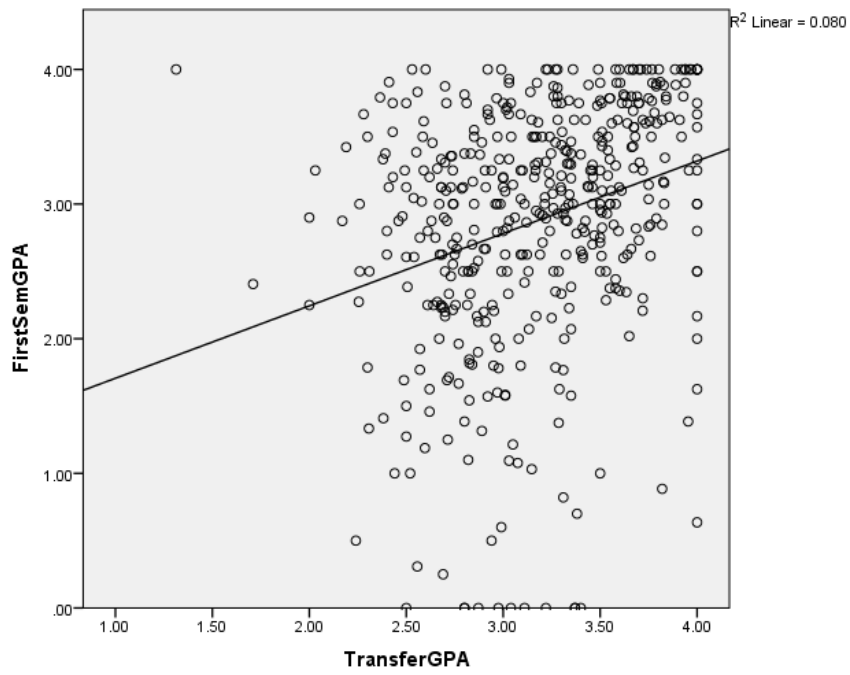
There is also a significant positive correlation between Transfer GPA and First Recorded GPA (taking into account the accumulated GPA of students who were not retained in the spring semester but later, $N=1700$). As before, this correlation was also significant for each individual semester (F2014, F2015, F2016).

A significant positive correlation indicates a higher Transfer GPA is associated with a higher First Semester GPA/First Recorded GPA. The magnitude of the Pearson's R coefficient shows a weak positive relationship and regression analyses shows that Transfer GPA accounts for approximately 10% of the variance in GPA attained in the first semester at NJIT. In addition, a single predictor model with Transfer GPA as the input variable, indicates that a 0.65 change in Transfer GPA would lead to a 1.0 change in NJIT GPA in the first semester.

Consideration of the retention rates by Transfer GPA groups suggests that there may be some detriment to reducing the Transfer GPA to 2.3 from 2.8 as the former group has a lesser Fall-Spring retention rate (-10%) over the last three years. Instead, a reduction to 2.4 or 2.5 would seem more cautious as the retention rates for these students are not as low.

APPENDIX

By Year: Transfer GPA/First Semester GPA - F2014

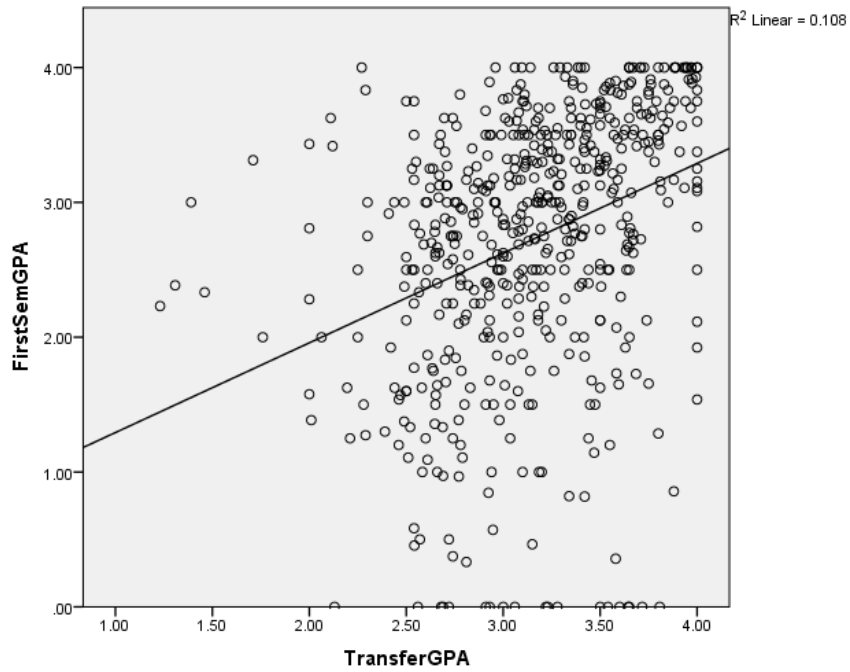


Correlations

		TransferGPA	FirstSemGPA
TransferGPA	Pearson Correlation	1	.282**
	Sig. (2-tailed)		.000
	N	511	466
FirstSemGPA	Pearson Correlation	.282**	1
	Sig. (2-tailed)	.000	
	N	466	587

** . Correlation is significant at the 0.01 level (2-tailed).

By Year: Transfer GPA/First Semester GPA - F2015

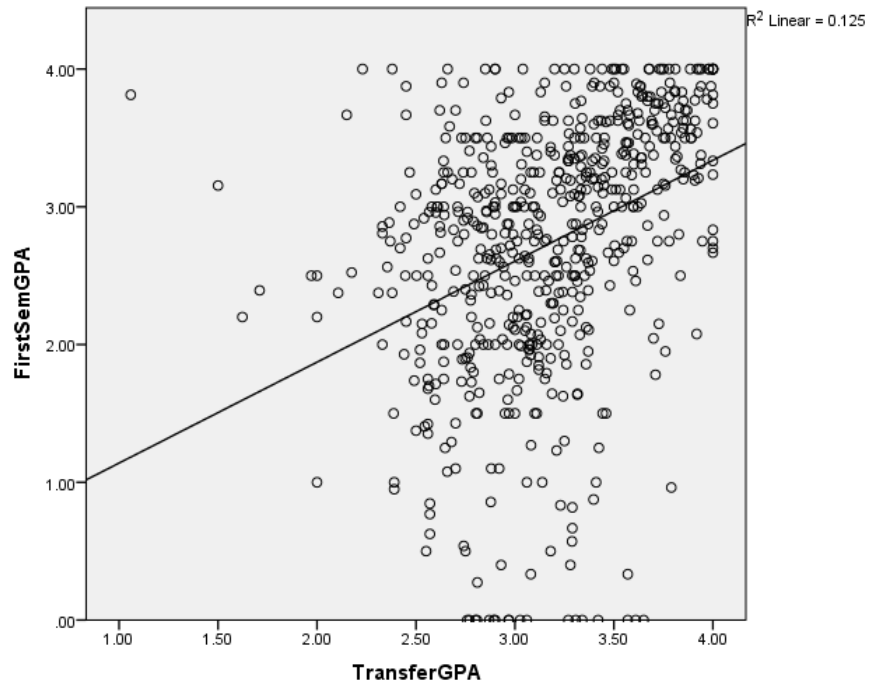


Correlations

		TransferGPA	FirstSemGPA
TransferGPA	Pearson Correlation	1	.329**
	Sig. (2-tailed)		.000
	N	574	562
FirstSemGPA	Pearson Correlation	.329**	1
	Sig. (2-tailed)	.000	
	N	562	700

** . Correlation is significant at the 0.01 level (2-tailed).

By Year: Transfer GPA/First Semester GPA - F2016

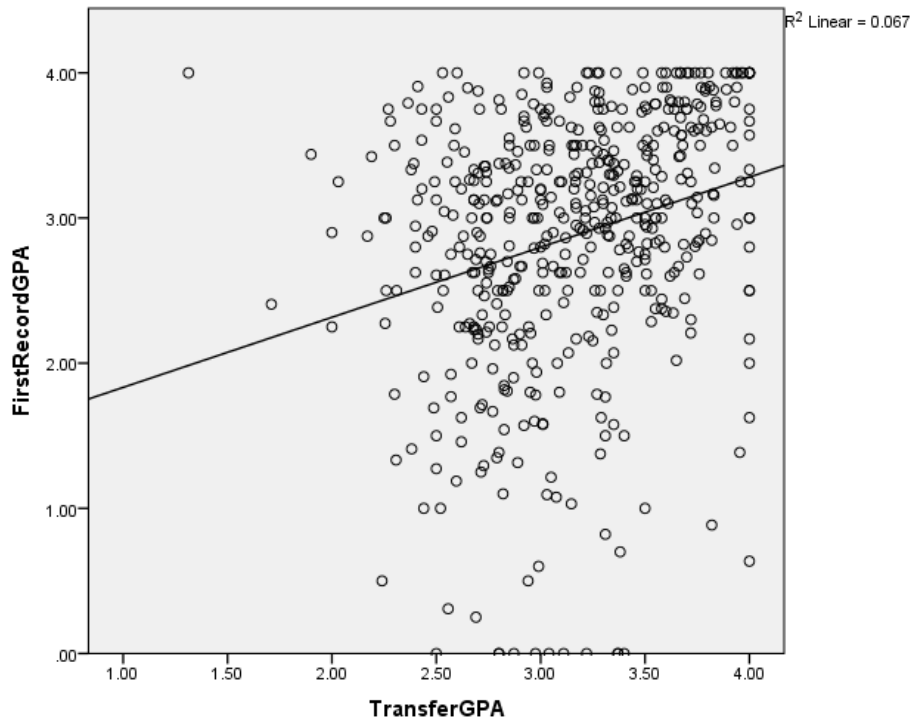


Correlations

		TransferGPA	FirstSemGPA
TransferGPA	Pearson Correlation	1	.354**
	Sig. (2-tailed)		.000
	N	615	615
FirstSemGPA	Pearson Correlation	.354**	1
	Sig. (2-tailed)	.000	
	N	615	781

** . Correlation is significant at the 0.01 level (2-tailed).

By Year: Transfer GPA/First Record GPA - F2014

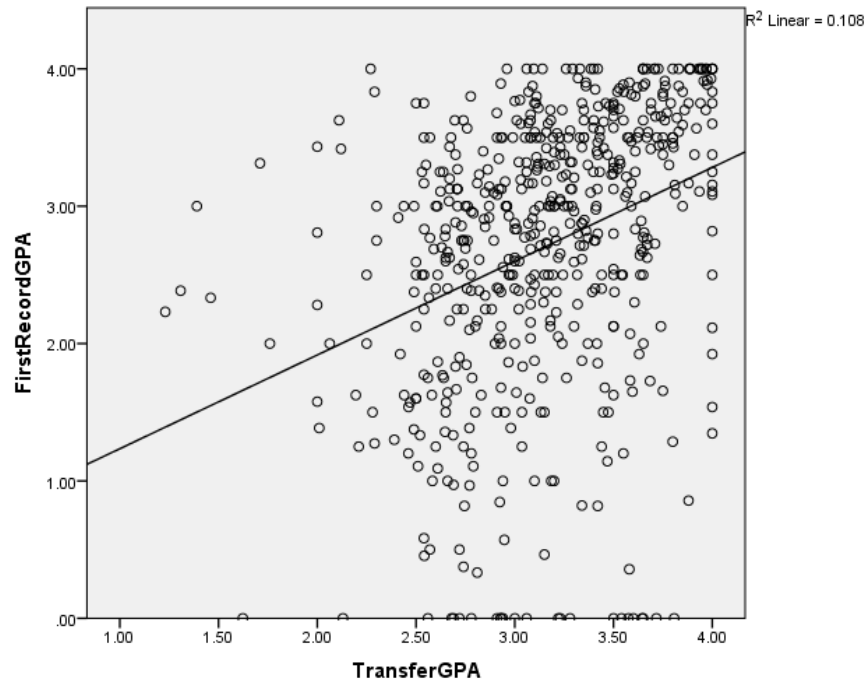


Correlations

		TransferGPA	FirstRecordGPA
TransferGPA	Pearson Correlation	1	.259**
	Sig. (2-tailed)		.000
	N	511	511
FirstRecordGPA	Pearson Correlation	.259**	1
	Sig. (2-tailed)	.000	
	N	511	647

** . Correlation is significant at the 0.01 level (2-tailed).

By Year: Transfer GPA/First Record GPA - F2015

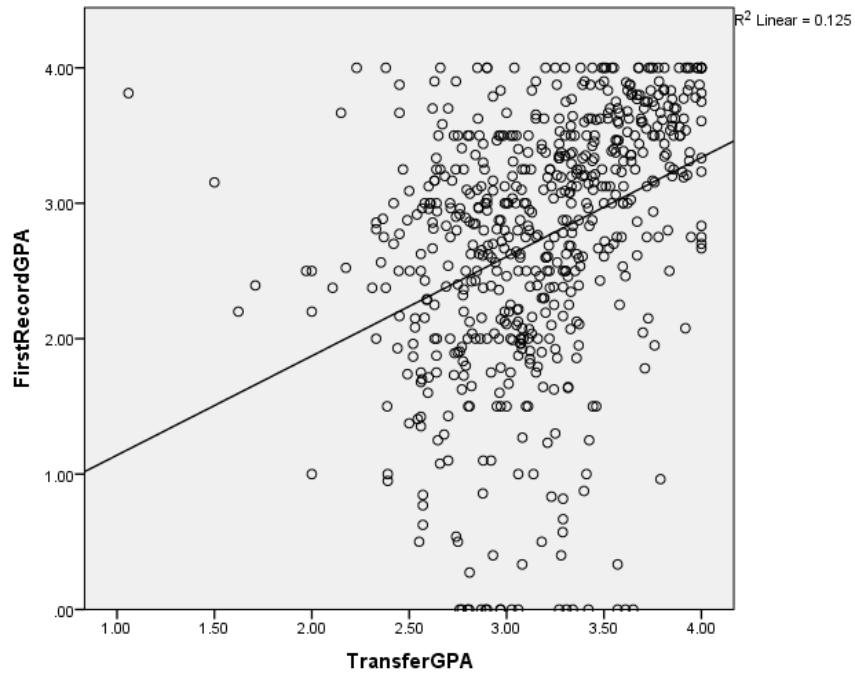


Correlations

		TransferGPA	FirstRecordGPA
TransferGPA	Pearson Correlation	1	.329**
	Sig. (2-tailed)		.000
	N	574	574
FirstRecordGPA	Pearson Correlation	.329**	1
	Sig. (2-tailed)	.000	
	N	574	717

** . Correlation is significant at the 0.01 level (2-tailed).

By Year: Transfer GPA/First Record GPA - F2016



Correlations

		TransferGPA	FirstRecordGPA
TransferGPA	Pearson Correlation	1	.354**
	Sig. (2-tailed)		.000
	N	615	615
FirstRecordGPA	Pearson Correlation	.354**	1
	Sig. (2-tailed)	.000	
	N	615	781

** . Correlation is significant at the 0.01 level (2-tailed).