



QUINTILE RANKINGS BY INTERDISCIPLINARY/NON-INTERDISCIPLINARY PROGRAM

Purpose: To determine if any statistically significant differences exist in quintile assignment between interdisciplinary and non-interdisciplinary based programs.

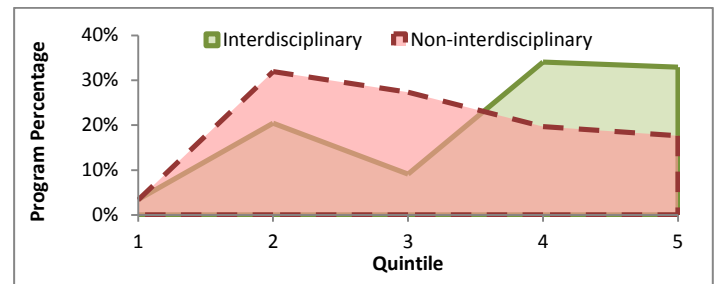
Assumptions: For the analysis, an interdisciplinary program was identified in three ways: 1) self-identification on the TransformUS template; 2) Inclusion on a list of interdisciplinary programs prepared by the College of Arts and Science (<http://artsandscience.usask.ca/students/academics/handouts/InterdisciplinaryPrograms.pdf>, last updated September 18, 2013); 3) Description of the program on the U of S and individual departments' websites.

Step One: All academic programs were divided into a dichotomous category of "interdisciplinary" and "non-interdisciplinary". These categories were then separated by quintile rankings.

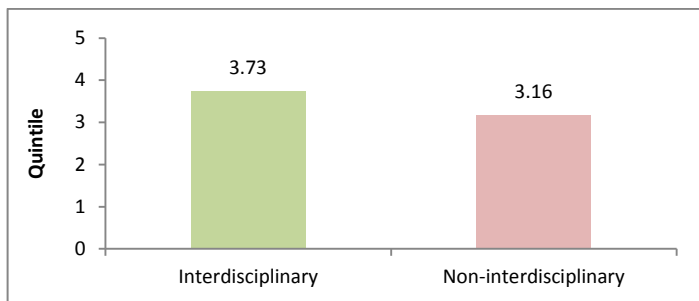
		Interdisciplinary						
Quintile		1	2	3	4	5	NA	Total
Count		3	18	8	30	29	3	91
Percentage		3%	20%	9%	34%	33%		

		Non-interdisciplinary						
Quintile		1	2	3	4	5	NA	Total
Count		13	125	107	77	69	4	395
Percentage		3%	32%	27%	20%	18%		

*NA: Not rated as part of the TransformUS process.



Step Two: An independent samples t-Test was used to determine if a statistically significant difference exists between mean quintile scores for interdisciplinary and non-interdisciplinary programs.



<i>t-Test:</i>	<i>Interdisciplinary</i>	<i>Non-Interdisciplinary</i>
Mean	3.73	3.16
Variance	1.22	1.15
Observations	88	391
Pooled Variance	1.38	
df	477	
t-Stat	4.095	
P-value	*0.00	

Step Three: A Chi-square test was used to establish the expected distribution of the programs into quintiles if the type of program (interdisciplinary vs. non-interdisciplinary) were unrelated to the quintile ranking. This test measures whether any of the quintiles have a higher observed count than would be expected by chance.

		Quintile				
		1	2	3	4	5
Interdisciplinary	Expected Count	3	26	21	20	18
	Observed Count	3	18	8*	30*	29*
Non-interdisciplinary	Expected Count	13	117	94	87	80
	Observed Count	13	125	107	77	69

*Significant at the 0.05 level

Conclusion: *Interdisciplinary programs received statistically higher mean quintile rankings than non-interdisciplinary programs. When examined by quintiles, there are significantly fewer interdisciplinary than non-interdisciplinary programs that received Quintile 3 rankings, but more that received Quintile 4 and 5 rankings.*

