Miami Dade College
QEP: ALEKS Pilot
Data Analysis and Summary

Overview: The ALEKS Study was conducted in Spring 2007-08 by having students use the program as part of the State Required Lab Hours for MAT0020/MAT0024 Courses. Participating Instructors had two sections of the course in which the Experimental Section used ALEKS and the other section did not. To assess learning gains, a faculty created PreTest was administered to all students in all participating sections in the beginning of the semester. The same test was administered as a PostTest at the end of the semester.

Results: Learning gains were greater overall and in five of the seven ALEKS sections compared to the matched comparison sections.

	Group #1 Control 436295	Group #1 Experimental 436294	Group #2 Control 436289	Group #2 Experimental 436287	Group #3 Control 438358	Group #3 Experimental 438359
Average Pre Test Score	N = 26 — 9.88	N = 27 — 8.44	N = 20 — 8.40	N = 22 — 8.27	N = 17 — 9.41	N = 27 — 9.19
Average Post Test Score	N = 15 — 12.60	N = 12 — 15.33	N = 16 — 13.00	N = 15 — 12.60	N = 12 — 13.25	N = 22 — 12.00
Average % Increase between Pre and Post	N = 13 — 41%	N = 12 — 80%	N = 14 — 60%	N = 15 — 62%	N = 12 — 57%	N = 19 — 56%
Summary	**39% Higher**		**2% Higher**		**1% Lower**	

	Group #4 Control 438345	Group #4 Experimental 438330	Group #5 Control 443127	Group #5 Experimental 455771	Group #6 Control 436281	Group #6 Experimental 436296
Average Pre Test Score	N = 30 — 9.80	N = 31 — 7.81	N = 18 — 10.33	N = 16 — 10.63	N = 23 — 8.78	N = 25 — 6.80
Average Post Test Score	N = 11 — 8.09	N = 9 — 12.44	N = 14 — 13.79	N = 11 — 14.64	N = 6 — 12.50	N = 9 — 13.33
Average % Increase between Pre and Post	N = 8 — -13%	N = 9 — 86%	N = 14 — 37%	N = 8 — 38%	N = 4 — 60%	N = 8 — 116%
Summary	**99% Higher**		**1% Higher**		**46% Higher**	

	Group #7 Control 443106	Group #7 Experimental 443103		Overall Student Comparison Control N =75	Overall Student Comparison Experimental N=64
Average Pre Test Score	N = 26 — 9.13	N = 30 — 9.32		9.17	8.97
Average Post Test Score	N = 11 — 14.33	N = 9 — 16.57		12.6	13.56
Average % Increase between Pre and Post	N = 10 — 69%	N = 9 — 52%		45%	69%
Summary	**17% Lower**			**24% Higher**	

Data Comparison Notes:
1. **Average Pre Test Score:** Includes test results of ALL pre test scores for class
2. **Average Post Test Score:** Includes results of ALL post test scores for class
3. **Average % increase between Pre and Post:** Only includes test results for students who had both "Pre" and "Post" Test Scores
4. **Average % increase between Pre and Post:** For Experimental Sections, Only includes data for students whose "Time in ALEKS" is greater than 0.
5. **Student Comparison:** Comparison of student Pre and Post Test scores across classes. Only includes cases in which student had both "Pre" and "Post" Test Scores