## **MATH50 Success Rates Investigation**

**Purpose**: This study looks at those students who enrolled in MATH50 from Fall 2005 to Fall 2006 for the first time and completed the course with a valid grade (A, B, C, D, F, CR, NC, I, W). Based on how these students met the prerequisite requirements to be eligible for this course, this study compares the success rates in MATH50 between two groups of students: those who met the requirement through a placement test score only and those who completed LERN49 to move on to MATH50 only. Some students who have both qualifications, or were placed into a higher course but decided to take a lower level one, or petitioned through multiple measures were excluded.

| MATH50 Completer Count      | First Ti |        |        |      |       |
|-----------------------------|----------|--------|--------|------|-------|
|                             | Fall     | Spring | Summer | Fall |       |
| Group Identifier            | 2005     | 2006   | 2006   | 2006 | Total |
| Passed LERN49               | 347      | 413    | 157    | 332  | 1249  |
| By TEST SCORE PLACEMENT     | 709      | 476    | 176    | 711  | 2072  |
| OTHER                       | 85       | 64     | 29     | 48   | 226   |
| Total First Time Completers | 1141     | 953    | 362    | 1091 | 3547  |
| Total Course Completers     | 1444     | 1230   | 475    | 1364 | 4513  |

Summer 2006 MATH50 success rates are higher than other terms and are much closer between the "Via LERN49" and the "Via Placement Test" groups. The overall success rate of the Via Placement Test group is higher than the Via LERN49 group (65.4% vs. 56.0%).

| MATH50 Success<br>Rates | Via LERN49 |        | Via Placement Test |           |        | Total           |           |        |                 |
|-------------------------|------------|--------|--------------------|-----------|--------|-----------------|-----------|--------|-----------------|
| TERM                    | Completed  | Passed | Success<br>Rate    | Completed | Passed | Success<br>Rate | Completed | Passed | Success<br>Rate |
| Fall 2005               | 347        | 178    | 51.3%              | 709       | 464    | 65.4%           | 1056      | 642    | 60.8%           |
| Spring 2006             | 413        | 197    | 47.7%              | 476       | 287    | 60.3%           | 889       | 484    | 54.4%           |
| Summer 2006             | 157        | 128    | 81.5%              | 176       | 145    | 82.4%           | 333       | 273    | 82.0%           |
| Fall 2006               | 332        | 196    | 59.0%              | 711       | 459    | 64.6%           | 1043      | 655    | 62.8%           |
| Grand Total             | 1249       | 699    | 56.0%              | 2072      | 1355   | 65.4%           | 3321      | 2054   | 61.8%           |

| Prerequisite Identifier VS. Success<br>Crosstabulation |                       |                    | SUC   | Total  |        |
|--|-----------------------|--------------------|-------|--------|--------|
|  |                       |                    | Not   |        |        |
|  |                       |                    | Passe |        |        |
|  |                       |                    | d     | Passed |        |
| Prerequisite<br>Identifier                             | Via LERN49            | Count              | 550   | 699    | 1249   |
|  |                       | % within All Flags | 44.0% | 56.0%  | 100.0% |
|  | Via Placement<br>Test | Count              | 717   | 1355   | 2072   |
|  |                       | % within All Flags | 34.6% | 65.4%  | 100.0% |
| Total  |                       | Count              | 1267  | 2054   | 3321   |
|  |                       | % within All Flags | 38.2% | 61.8%  | 100.0% |

A Chi-Square test shows the success difference between these two groups is significant (X = 29.374, p < .001).