

DATA Reflections for MATH 2011-2012

| Assessment | Description / Analysis | Action? |
|---|--|--|
| STANDARD 1 – CONCEPTUAL AND PROCEDURAL UNDERSTANDING | | |
| 6 MFT | The Math MFT includes topics that are not covered in our curriculum (i.e. Modern Algebra is not a required course for math education majors.) There are not sub-scores to measure students' success in specific categories, so this may result in lower overall scores that do not accurately reflect our students' knowledge. | Reevaluate whether there is a better assessment for standard 1. |
| STANDARD 2 – NUMBER AND NUMBER SYSTEMS | | |
| 1a Praxis II Sub-score I | All students are scoring at average. | None |
| 7 LP-MA245 | | |
| STANDARD 3 – ALGEBRA | | |
| 5A MA330 | Course was not taught this academic year. | None |
| 5B MA370 | Only one student was enrolled in the course. | Modern Algebra might better prepare students for the abstract portion of this standard. Consider reinstating Modern Algebra (MA 420) as a required course for math education students. |
| STANDARD 4 – GEOMETRY | | |
| 1a Praxis II Sub-score II | All students are scoring at average. | None |
| 5C MA340 | Course was not taught this academic year. | None |
| STANDARD 5 – DATA, STATISTICS AND PROBABILITY | | |
| 1a Praxis II Sub-score II | All students are scoring at average. | None |
| 5C MA410 | Only one student was enrolled in the course. | Raise the level of rigor of the course. Change textbooks to one geared toward math majors. |
| STANDARD 6 – CALCULUS | | |
| 1a Praxis II Sub-score III | All students are scoring at average or higher than average. | None |
| 5E MA220 | All students are at competent or target. | None |
| STANDARD 7 –DISCRETE PROCESSES | | |
| 1a Praxis II Sub-score IV | All students are scoring at average or higher than average. | None |
| 3 CTE RUBRIC Goal 6 | | |
| STANDARD 8 – HISTORY OF MATH | | |

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| 5F MA355 | Course was not offered this academic year. | None |
| STANDARD 9 – PEDAGOGICAL STRATEGIES | | |
| 2 KTP Task 2 | | |

Documentation of Department Discussions

Strengths of the Program

The math program's courses seem to be preparing students well. All students passed the content portion of the Praxis test scoring average or above average. Continue to maintain high expectations in these courses.

Areas to Improve

Abstract thought and theory could be improved. Try to incorporate more of this in all courses. Increase the technology component in courses. There were AFIs on the Math Program Review for Standards 6 and 8. Both were over the determination of course grades not being clearly stated. The syllabi for the courses was not attached and would cover how the grades were determined in the courses used for both of the standards.

Changes / Updates / Topics for Discussion

(syllabi, college catalog, curriculum, specific courses, specific assessments, etc.)

Reevaluate the assessment for Standard 1.
Consider a different probability-statistics sequence.
Possibly make MA 420 Modern Algebra a required course.
After the math standards are rewritten, check to make sure the current assessments will continue to meet the standards.
Implement the lesson plan in MA 245 the next time the course is taught.