

**2011 – 2012 APSU Teacher Unit
Annual Program Review (APR) Report**

I. Name of Program: Mathematics 7-12

II. Provide list of Reviewers: Dr. Jackie Vogel, Dr. Ann Assad, Dr. Mary Lou Witherspoon, current students studying for the mathematics content Praxis, and survey of recent completers

III. Program Description:

Undergraduate students in the mathematics licensure program take a Mathematics Major that includes two courses that integrate content and pedagogy and require field placement. They also take all but one course in the Education Minor. The course omitted from the minor is EDUC 4030 in educational technology. The reasoning behind this omission is that students are required to take a course in computer programming that supports the major, that technology specific to mathematics is required throughout their program, and that the Tennessee Board of Regents caps the number of hours required for a degree.

IV. Changes in Program

The Tennessee Board of Education removed the requirement for the Mathematics Pedagogy test from its licensure requirements for secondary mathematics.

The department is implementing a new senior project for its majors in response to BRAVO data requests. The projects will be evaluated based on a rubric and included with the departmental data already being collected (major field test results). A pilot will begin Fall 2012. It was determined that the major field test was not a good representation of all of the majors' abilities, particularly the secondary mathematics students since some questions come from courses they do not take as undergraduates.

V. Program Strengths

A strength of the program is that 100% passed their content and pedagogy Praxis exams, with most on the first attempt.

VI. Program Weaknesses

The major field test contains some content that is not covered in the courses taken by the mathematics education option students. The department has discussed other exams, but have not found an exam that is preferred over the major field test.

VII. Assessment of Candidates

Praxis Test Results: Seven mathematics majors took the Praxis mathematics content and pedagogy tests. All students passed both tests, most passed on their first attempt. On the pedagogy test 125 was the required score. The average score for the APSU students was 145. On the content test, the required score is 136. The average content score for the APSU students was 140; however, most students passed on their first attempt.

Portfolio Review: There were eight students who completed Milestone IV portfolios. Their pass rate was 100%.

Exit Survey: In Fall 2011, there was only 1 student in the Exit survey, so that is insufficient for making any conclusions. In Spring 2012, there were only 5 students in the Exit survey. This is too small to be a statistically significant sample and no conclusions can be drawn from this data either.

Actions With Respect To The Praxis Tests: Praxis Review sessions are being conducted in an attempt to increase scores and decrease the number of times a student attempts the Mathematics Content Praxis before receiving a passing score. These reviews are planned for the 2012-2013 academic year.

Note: if no candidates were assessed during the past year you may want to address possible reasons that no candidates are in the program.

IX. Assessment of Program Operations

Seven students received their initial licensure and one student completed their add-on licensure in secondary math in 2011-2012.

Majors selecting the mathematics education option represent the largest number of majors, exceeding the other three options: mathematics, statistics, applied mathematics.

X. Summary of Proposed Changes

The changes are to remove the Mathematics: Pedagogy Praxis requirement, implement a senior project pilot, and offer Mathematics: Content Praxis Review Sessions.

XI. Assessment System

Data from the projects will be added to data collected by the College of Education.