

**Department of Mathematics
Assessment Plan
Academic year 2007-2008**

<u>Expanded Statement of Institutional Purpose:</u>	<u>Program Intended Educational Outcomes:</u>	<u>Means of Program Assessment and Criteria for Success:</u>	<u>Summary of Data Collected:</u>	<u>Use of Result:</u>
<p><u>Mission Statement:</u> Serve future mathematicians, scientists, business strategists and engineers. Serve future teachers of mathematics and computer science students as well as those pursuing studies in the arts and humanities. The math department is committed to providing excellent quality education and create the best learning environment for</p>	<p>Graduates will:</p> <ul style="list-style-type: none"> ■ be able to perform complex tasks; discern patterns; undertake intellectually demanding mathematical reasoning; and reason rigorously in mathematical arguments. ■ possess an understanding of the breadth of the mathematical sciences and their deep interconnecting principles; substantial knowledge of a 	<p>1. Assessment measures include exams, homework and quizzes; course projects; undergraduate research.</p>	<p>1a. The objectives of all courses were met.</p> <p>1b. Students and instructors involvement in undergraduate research was expanded with higher rate than last year.</p> <p>1c. Seven (7) participated in integration Bee in April at BYU. Five (5) students participated with 3 faculty in the joint MAA/CURM</p>	<p>1a. Course changes were discussed at the department level for eventual improvements.</p> <p>1b. Students presentations of projects were encouraged.</p> <p>1c. Have more students involved in scholarship activities.</p>

<p>the success of students</p> <p>Goals statement: Prepare our majors for successful careers after graduation.</p> <p>Prepare our mathematics education majors with both the mathematical knowledge and the teaching skills necessary for successful teaching careers in secondary schools.</p> <p>Prepare our majors for successful admission into graduate schools</p> <p>Offer excellent mathematical instruction that is needed and requested by the major departments we serve.</p> <p>Promote and</p>	<p>discipline that makes significant use of mathematics</p> <ul style="list-style-type: none"> ■ be able to apply mathematics to a broad spectrum of complex problems and issues; formulate and solve problems; undertake real-world mathematical modeling project. ■ be able to read, write, listen, and speak mathematically. ■ be able to carry out team work in scientifically diverse environment and be open to other areas of knowledge. ■ Ability to communicate. ■ Strengthen the 	<p>2. Global assessment measures include Exit exam, acceptance to graduate schools.</p> <p>3. Majors will achieve a grade C or better</p> <p>4. Students seeking admission into graduate schools will be well prepared in their field.</p> <p>5. Graduates will</p>	<p>Conference at BYU April 14. Two students presented at the department seminar their work.</p> <p>2a. 75% of the math majors were in the 75th percentile or above, a major increase from the past.</p> <p>3. 80% graduate math ed. majors passed their praxis teaching test and 79% of math majors have a GPA of 3.0 or above.</p> <p>4. Students who applied were admitted to graduate schools.</p> <p>5. Exit survey</p>	<p>2a. Following last year assessment, the department established free workshops to train students in the field and improve the Exit exam output.</p> <p>3. Courses objectives were met.</p> <p>4. Faculty do volunteer advice to students.</p> <p>5. Use more up to</p>
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<p>support scholarly activities by faculty.</p> <p>Improve the recruitment and retention rates.</p> <p>Assess online courses.</p>	<p>department scientific reputation.</p> <ul style="list-style-type: none"> ■ Program growth. ■ Increase the outreach of the program. 	<p>be familiar with the use of computer for mathematics.</p> <p>6. Graduates will rate the education they received from this department. Annual Student Exit Survey.</p> <p>7. Enrollment in mathematics classes will be assessed.</p> <p>8. Feedback from students and alumni.</p>	<p>showed that 37.5% agree or strongly agree that their computer lab experience in the department was appropriate.</p> <p>6. Exit survey showed that 87.5% rank the math programs good or excellent.</p> <p>7a. Exit survey showed that 75% of graduate agree that the department and faculty provided sufficient advisement.</p> <p>7b. Recruitment campaign was intensified and coordinated with the college campaign.</p> <p>8. The department webpage is more complete and up to date.</p>	<p>date software in classroom.</p> <p>6. Get student feedback on how the math program is perceived in order to make improvements.</p> <p>7a. Maintain the department mentoring system.</p> <p>7b. Expand recruitment efforts with faculty participation.</p> <p>8. Give the department more outside exposure.</p>
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