

**Department of Mathematics  
Assessment Report  
Academic year 2006-2007**

<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><b><u>Mission Statement:</u></b>            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"> <li>■ be able to perform complex tasks; discern patterns; undertake intellectually demanding mathematical reasoning; and reason rigorously in mathematical arguments.</li> <li>■ possess an understanding of the breadth of the mathematical sciences and their deep interconnecting principles; substantial knowledge of a</li> </ul>	<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 is maintained.</p> <p>1c. Two (2) students presented their work at the university scholarship day in April. Other students contributed in a paper for publication with a</p>	<p>1a. All remaining courses content guides were accomplished and discussed in department meetings.</p> <p>1b. Students presented their work in formal settings in and outside the university.</p> <p>1c. Encourage more student involvement is scholarship activities.</p>

<p>the success of students</p> <p><b>Goals statement:</b> 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"> <li>■ be able to apply mathematics to a broad spectrum of complex problems and issues; formulate and solve problems; undertake real-world mathematical modeling project.</li> <li>■ be able to read, write, listen, and speak mathematically.</li> <li>■ be able to carry out team work in scientifically diverse environment and be open to other areas of knowledge.</li> <li>■ Ability to communicate.</li> <li>■ Strengthen the</li> </ul>	<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 be familiar with the use of computer for mathematics.</p>	<p>faculty member of the department and presented work at BYU.</p> <p>2a. 39% of the exist exam major were in the top 40<sup>th</sup> percentile.</p> <p>3. 79% of math and math ed. majors have a GPA above 3.0.</p> <p>4. Students admitted to graduate schools.</p> <p>5. Exit survey showed that 50% agree or strongly agree that their computer lab experience in the department was appropriate.</p>	<p>2a. Improvement is needed.</p> <p>3. Courses objectives were met.</p> <p>4. Faculty provide all advice.</p> <p>5. Plan extended use of computing tools in courses.</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"> <li>■ Program growth.</li> <li>■ Increase the outreach of the program.</li> </ul>	<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>9. Visits to other institutions and students mentoring.</p> <p>10. Informal overview of the results of the online courses.</p>	<p>6. Exit survey showed that 50% rank the math programs good or excellent.</p> <p>7a. A system of mentoring students was established.</p> <p>7b. Recruitment campaign was maintained and coordinated with the college campaign.</p> <p>8. Alumni webpage was greatly improved.</p> <p>9. Collaboration with other state schools and universities is maintained and improved.</p> <p>10. Enrollment in online classes expanded and different issues related to these classes and discussed.</p>	<p>6. Follow up on these surveys to detect trends.</p> <p>7a. No new action planned.</p> <p>7b. Sustain recruitment efforts.</p> <p>8. Seek formal feedback from alumni.</p> <p>9. Continue collaboration with other universities (plans are underway for Fall events in parallel computing).</p> <p>10. No immediate action planned at this time.</p>
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