

**Department of Mathematics  
Assessment Report 2005-2006**

<b><u>Expanded Statement of Institutional Purpose:</u></b>	<b><u>Program Intended Educational Outcomes:</u></b>	<b><u>Means of Program Assessment and Criteria for Success:</u></b>	<b><u>Summary of Data Collected:</u></b>	<b><u>Use of Result:</u></b>
<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 the success of</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 discipline that</li> </ul>	<p>1. Assessment measures include exams, homework and quizzes; course projects; undergraduate research.</p>	<p>1a. The objectives of courses were met.</p> <p>1b. Students and instructors involvement in undergraduate research is up substantially.</p> <p>1c. Three (3) students presented their work at the university scholarship day in April. Nine (9) students participated in the regional MAA meeting in Colorado.</p>	<p>1a. Eleven courses were assessed by faculty and discussed in department meetings.</p> <p>1b. All courses content guides were accomplished and discussed in department meetings.</p> <p>1c. No action required.</p>

<p>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 support scholarly</p>	<p>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> </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>2a. 50% of the exist exam major were in the top 25<sup>th</sup> percentile.</p> <p>2b. 43% of levels 3 and 4 math education majors completed teacher certification. The remaining will intern and complete their certification in Fall.</p> <p>3. 87.5% of graduates have a GPA above 3.0.</p> <p>4. Students who applied to graduate degrees were admitted.</p> <p>5. Exit survey showed that 75% agree or strongly agree that their computer lab experience in the department was appropriate.</p>	<p>2a. Improvement will be sought.</p> <p>2b. No action required.</p> <p>3. Courses objectives were met.</p> <p>4. Faculty will provide all necessary help and guidance.</p> <p>5. Have students more prepared to carry out projects involving substantial amount of computing.</p>
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<p>activities by faculty.</p> <p>Improve the retention rate.</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>6. Exit survey showed that 90% rank the math programs good or excellent.</p> <p>7a. A system of mentoring students was established.</p> <p>7b. recruitment campaign was enforced</p> <p>8. Alumni webpage was set up on the department site.</p>	<p>6. Follow up on these surveys to detect trends.</p> <p>7a. No new action planned.</p> <p>7b. More recruitment work and follow up will be planned.</p> <p>8. Feedback from alumni will be documented.</p>
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