

**Department of Mathematics
Assessment Plan
Academic year 2008-2009**

<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 	<ol style="list-style-type: none"> 1. Assessment measures include exams, homework and quizzes; course projects. 2. a. Global assessment measures include Exit exam, rate of acceptance to graduate schools. 2. b. Training session for the Exit Exam will be held. 3. Majors will achieve a grade C or better 4. a. Students 		

<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>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. 	<p>seeking admission into graduate schools will be well prepared in their field.</p> <p>4. b. Students in math education will be mentored to be effective teachers.</p> <p>4. c. Students in actuarial science will receive training for professional actuarial exams.</p> <p>5. Graduates will be familiar with the use of computer for mathematics.</p> <p>6. a. Involve students in undergraduate research.</p> <p>6. b. Maintain the Math Club.</p>		
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<p>Improve the recruitment and retention rates.</p>	<ul style="list-style-type: none"> ■ Program growth. ■ Increase the outreach of the program. 	<p>7. Graduates will rate the education they received from this department. Annual Student Exit Survey.</p> <p>8. Enrollment in mathematics classes will be assessed.</p> <p>9. a. Visits to high schools to promote the math program and students mentoring to improve student retention.</p> <p>9. b. Hold the state math contest in Spring. Organize “Algebra Bee” for local High school students.</p>		
<p>Promote and support scholarly activities by faculty.</p>	<ul style="list-style-type: none"> ■ Strengthen the department scientific reputation. 	<p>10. Maintain updated department website.</p> <p>11. Maintain a Department Seminar</p>		

		<p>12. Participate with presentations in the College CARAT seminar.</p> <p>13. Maintain Faculty participation in professional meetings.</p> <p>14. Ongoing research collaboration with industrial entities will be maintained.</p> <p>15. Encourage students' internships.</p>		
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