

Degree Program Student Learning Outcomes

(Complete this form for every active degree or certificate granting program within your division.)

Directions: Complete Sections A-C at the beginning of each evaluation cycle.
Complete Sections D-E at the end of each evaluation cycle.

Department: Natural Science & Mathematics		Department Chair: Karl Pruitt		
Degree Program: Mathematics		Degree Type: AS		Principal Completer of Form: Natural Science Faculty
Academic Year: 2007-2008				
A. Student Learning Outcomes (3-5)—no more	B. Direct Assessment Methods	C. Expected Results	D. Actual Results Obtained	E. Use of Results
Students completing the program must demonstrate:	List what specific direct assessment methods you plan on using to measure the outcome. Provide specifics (i.e., course, embedded exam questions, etc...)	List what intended result you expect to obtain from the direct assessments.	When you assessed and measured your outcome, what results did you actually find? <i>*Reported in late Spring</i>	Now that you have your results, how do you intend to use these results to improve this program? <i>*Reported in late Spring.</i>
1. The ability go use technology to analyze problems and to apply to others disciplines	1. MTH100 Final Exam with embedded questions for Student Learner Outcomes 1-6	1. Proficiency will be 70% on the MTH 100 Exit Exam.	1.36% of the students scored greater than 70% on the MTH 100 exit exam. 64% of the students were unsuccessful.	1. Create a diagnostic exam to Evaluate students' strength and weaknesses. 2. Refer students to the math & science tutoring lab. 3. Midterm exam to monitor students' progress in terms of their understanding o basic concepts.
2. The ability to use technology to analyze problems and to apply to other disciplines.	2. MTH 112 Quiz on Polynomials (Solve problems graphically, verbally, and using technology) MTH 112 Rubric	2. Proficiency will be 70 % on the MTH 112 quiz on polynomials.	2. 100% of the students showed proficiency on the MTH112 quiz dealing with polynomials. 70% of the students showed proficiency with the MTH112 Rubric	2. To incorporate more math diagnostic learning resources and pre-test during the first week of classes. This can ensure early identification of students' weaknesses with certain math concepts.
3. The ability to construct and write mathematical arguments and apply a variety of problems solving skills.	3. MTH113 Rubric for Learner Outcomes #1 (Identities)	3. Proficiency will be 70% on the MTH 113 quiz on double angles..	3. 40% of the students scored 70% or better on this concepts. Three (3) received incomplete on this assignment.	3. will reinforce by having this portion examined in two assignments.
4. The ability to engage in dialogue within group settings and perform effectively as any team member of the group.	4. MTH112 Topic Presentation MTH112 Rubric	4. Proficiency will be 70% on the MTH125 Test.	4. During the Fall and Spring semester of this academic year 07-08 no MTH112 courses populated. No data obtained.	4. No data obtained this academic year 2007-2008.