CATAMOUNT CORE CURRICULUM ASSESSMENT RUBRIC
MATHEMATICS

Please use the following criteria to determine the student's ability to meet the following learning outcomes:

Learning Outcome #1: Students will demonstrate an ability to understand aspects of the world through a mathematical lens.

	1 Not Meeting Expectations	**2** Approaching Expectations	**3** Meeting Expectations	**4** Exceeding Expectations
	Student demonstrates *no ability* to interpret information using mathematical reasoning.	Student *attempts to use* mathematical reasoning to interpret and draw reasonable and appropriate inferences to explain information presented in mathematical forms but draws incorrect inferences about the information's meaning. *For example, the student attempts to explain the rationale for steps in solving an equation, but the student incorrectly applies the algebraic rule.*	Student *uses* mathematical reasoning to interpret and draw reasonable and appropriate inferences to provide *somewhat accurate* explanations of information presented in mathematical forms but occasionally makes minor errors related to computations or units. *For example, the student can accurately explain trend data shown in a graph but may miscalculate the slope of the trend line.*	Student *uses* mathematical reasoning to interpret and draw reasonable and appropriate inferences to provide *accurate* explanations of information presented in mathematical forms. *For example, the student can accurately explain the trend data shown in a graph.*
Tally:				

Learning Outcome #2: Students will give examples related to course materials that show how creativity is central to mathematical thinking.

	1 Not Meeting Expectations	**2** Approaching Expectations	**3** Meeting Expectations	**4** Exceeding Expectations
	Student demonstrates *no ability* to use non-algorithmic thinking to answer quantitative questions.	Student *attempts to use* non-algorithmic thinking to answer quantitative questions. *For example, the student works to see a pattern, but is unable to name the pattern.*	Student *somewhat accurately uses* non-algorithmic thinking to answer quantitative questions. *For example, the student sometimes notices that a pattern exists and may be able to describe the pattern to extend it.*	Student *competently uses* non-algorithmic thinking to answer quantitative questions. *For instance, the student can recognize and state patterns.*
Tally:				

Learning Outcome #3: Students will be able to demonstrate facility with core mathematical concepts by completing work at the introductory college level or beyond in one area of mathematics.

	1 Not Meeting Expectations	**2** Approaching Expectations	**3** Meeting Expectations	**4** Exceeding Expectations
	Student demonstrates *no ability* to solve mathematical challenges.	Student *struggles to solve* mathematical challenges. *For example, the student struggles to use basic algebraic rules.*	Student *somewhat competently solves* mathematical challenges. *For example, the student may be able to properly use algebraic rules.*	Student *competently solves* mathematical challenges. *For example, the student uses algebraic rules properly.*
Tally:				