## SUNY Cortland General Education (GE) Category 1 – Quantitative Skills Assessment Rubric [revised/approved 2020-11-19]

GE 1 GOAL: To develop mathematical and quantitative reasoning skills.

Student Learning Outcome (SLO)	Target	Acceptable	Unacceptable
mathematical models.	The student demonstrates the ability to interpret and draw inferences that accurately represent the model or answer the question.	The student demonstrates the ability to interpret and draw inferences. but they are incomplete or inaccurate due to a minor conceptual flaw(s).	The student's interpretations and inferences are missing. Incomplete, or inaccurate due to a major conceptual flaw(s) or do not address the question in any meaningful way.
symbolically, visually, numerically, and verbally.	The student employs the required representations to display mathematical information (e.g., forma language, labels, scales, terminology, etc.). The response may have minor copying or labeling errors.	The student's representations to display mathematical information are lacking due to a minor conceptual or computational flaw(s).	The student's representations to display mathematical information are missing or incorrect due to a major conceptual or computational flaw(s), or do not address the question in any meaningful way.
arithmetic, algebra, geometry, or statistics to solve problems		The student demonstrates understanding of the problem and the correct method, but the implementation is partially incorrect. The solution may contain a minor computational flaw(s).	The student's response was missing, incomplete, or incorrect, demonstrating little to no understanding of the problem. The solution contains a major computational flaw(s) or shows little or no correct work.

Student Learning Outcome (SLO)	Target	Acceptable	Unacceptable
	*	mathematical result to a problem, but the student's response contains a minor conceptual flaw.	The student can estimate and justify a mathematical result to a problem, but the student's response contains a major conceptual flaw, or the student's response does not address the question in any meaningful way.
statistical methods.	simplifications of a mathematical or	flaw.	The student provides a description of the assumptions/ simplifications of a mathematical or statistical method, but the response contains a major conceptual flaw, or the student fails to realize that the results are not contextually appropriate.