

**ConnSCU GENERAL EDUCATION ASSESSMENT RUBRIC**

**COMPETENCY AREA: Quantitative Reasoning**

**Goal:** Students will become familiar with science as a method of inquiry and will learn to recognize, understand, and use the quantitative elements they encounter in various aspects of their lives. Students will develop a habit of mind that uses scientific methods and quantitative skills to solve problems and make informed decisions.

Scale Outcomes	4 Highly Competent	3 Competent	2 Minimally Competent	1 Not Competent
<p>Represent mathematical, and quantitative information symbolically, graphically, numerically, and verbally.</p>	<p>Student provided all required representations.  All representations were clear, complete and related to the given data.</p>	<p>Most representations were clear, complete, and related to the given data.</p>	<p>Most representations were: incomplete or not related to the given data or not provided.</p>	<p>Student did not provide any representations or understandable representations or representations that are related to the given data.</p>
<p>Apply quantitative methods to investigate routine and novel problems. This includes calculations/procedures, mathematical and/or statistical modeling, prediction, and evaluation.</p>	<p>Student successfully applied all required quantitative methods to investigate both routine and novel problems.  All applications were efficient, complete, correct and related to the problems posed.</p>	<p>Student successfully applied most required quantitative methods to investigate both routine and novel problems.  Most applications were complete, correct and related to the problems posed.</p>	<p>Student successfully applied some required quantitative methods to investigate routine problems.  Most applications were incomplete or incorrect or not related to the problems posed.</p>	<p>Student did not successfully apply any appropriate quantitative methods.</p>

<p>Interpret mathematical and quantitative information and draw logical inferences from representations such as formulas, equations, graphs, tables, and schematics.</p>	<p>Student successfully interpreted all required representations of quantitative information and drew appropriate logical inferences.</p>	<p>Student successfully interpreted most required representations of quantitative information and drew some logical inferences.</p>	<p>Student successfully interpreted some required representations of quantitative information but was unable to draw logical inferences.</p>	<p>Student did not successfully interpret any representations of quantitative information.</p>
<p>Evaluate the results obtained from quantitative methods for accuracy and/or reasonableness.</p>	<p>Student successfully evaluated all the results obtained from quantitative methods for accuracy and/or reasonableness.</p>	<p>Students successfully evaluated most of the results obtained from quantitative methods for accuracy and/or reasonableness.</p>	<p>Students successfully evaluated some of the results obtained from quantitative methods for accuracy and/or reasonableness.</p>	<p>Student did not evaluate the results for accuracy and/or reasonableness.</p>