

**General Education COURSE ASSESSMENT RUBRIC
Element 2: Mathematics (Reviewed Summer 2015)**

COMPETENCY	4-Accomplished <i>Exceeds Course Expectations</i>	3-Competent <i>Meets Course Expectations</i>	2-Developing <i>Incomplete in Meeting Course Expectations</i>	1-Beginning <i>Inadequate in Meeting Course Expectations</i>
Comprehension <i>(GE Goal 2)</i>	N/A	Adequately comprehends the major concepts of the course	Incompletely comprehends the major concepts of the course	Inadequately comprehends the major concepts of the course
Appropriate use of terminology and notation <i>(GE Goal 2)</i>	Uses terminology and notation <i>accurately</i> & appropriately in all instances	Uses terminology and notation <i>accurately</i> & appropriately in most instances	Uses some <i>accurately</i> & appropriate terminology and notation	Often <i>inaccurately</i> uses, or fails to use, terminology and notation
Execution of appropriate strategies for solving problems <i>(GE Goals 2 & 7)</i>	Executes a creative or sophisticated solution for solving a problem	Executes an appropriate strategy for solving each problem	Sometimes selects an inappropriate or inefficient strategy	Often selects an <i>inaccurate</i> or inefficient strategy
Use of mathematical/logical operations <i>(GE Goal 2)</i>	Uses mathematical/logical operations <i>accurately</i> & appropriately in all instances	Uses mathematical/logical operations <i>accurately</i> & appropriately in most instances	Uses some <i>accurately</i> & appropriate mathematical / logical operations	Often <i>inaccurately</i> uses, or fails to use, mathematical/logical operations
Interpretation of the meaning of solutions in the context of the problem(s) <i>(GE Goals 2 & 7)</i>	<i>Clearly and precisely</i> articulates an <i>accurate</i> & sophisticated interpretation of the data, and/or makes sophisticated inferences in the context of the problem(s)	Interprets data in the context of the problem(s) and makes <i>accurate</i> & appropriate inferences	Incompletely interprets data and/or makes some incomplete or <i>inaccurate</i> inferences	Fails to interpret data and/or makes <i>inaccurate</i> inferences
Integration across course <i>(GE Goals 2 & 8)</i>	<i>Accurately & precisely</i> integrates <i>relevant</i> information, meaningful concepts, and important principles	<i>Accurately</i> integrates most <i>relevant</i> information, meaningful concepts, and important principles	<i>Accurately</i> integrates some <i>relevant</i> information, meaningful concepts, and important principles	<i>Inaccurately</i> integrates, or fails to integrate, <i>relevant</i> information, meaningful concepts, and important principles

Intellectual standards italicized in Table (Paul & Elder: Elements of Thought)

Applying the Intellectual Standards

Clarity: Understandable; the meaning can be grasped

Feedback: Could you elaborate further? Could you give an example? Could you illustrate what you mean?

Accuracy: Free from errors or distortions; true

Feedback: How could we check on that? How could we find out if that is true? How could we verify or test that?

Precision: Exact to the necessary level of detail

Feedback: Could you be more specific? Could you give more details? Could you be more exact?

Relevance: Relating to the matter at hand

Feedback: How does that relate to the problem? How does that bear on the question?
How does that help us with the issue?

Depth: Containing complexities and multiple interrelationships

Feedback: What factors make this a difficult problem? What are some of the complexities of this question?
What are some of the difficulties we need to deal with?

Breadth: Encompassing multiple viewpoints

Feedback: Do we need to look at this from another perspective? Do we need to consider another point of view?
Does we need to look at this in other ways?

Logic: The parts make sense together; no contradictions

Feedback: Does this all make sense together? Does your first paragraph fit in with your last?
Does what you say follow from the evidence?

Significance: Focusing on the important; not trivial

Feedback: Is this the most important problem to consider? Is this the central idea to focus on?
Which of these facts are most important?

Fairness: Justifiable; not self-serving or one-sided

Feedback: Do you have any vested interest in this issue?
Are you sympathetically representing the viewpoints of others?