## **Natural Science Rubric**

This rubric addresses the following **General Studies Program (GS)** learning outcomes: **GS 2** - apply principles of critical thinking to demonstrate integrative learning and **GS 4** - communicate effectively in written form; and the following **Natural Sciences Distribution (NS)** learning outcomes: **NS 1** - articulate the relevance of the Natural Science course to their general education; **NS 2** - explain how knowledge of natural science is applicable to their lives; **NS 3** - apply appropriate scientific methodology within one of the natural sciences; **NS 4** - evaluate the validity and limitations of scientific theories and claims; and **NS 5** - (lab courses only) analyze scientific data acquired through laboratory experiences in one of the natural sciences.

Evaluators are encouraged to assign a Does not meet criteria to any work sample that does not meet Beginning-level performance.

	Does not meet criteria for Beginning	Beginning	Developing	*Proficient	Advanced
Articulate relevance  NS 1 GS 4	Cannot articulate why the natural science course is relevant.	Limited articulation of why the natural science course is relevant.	Articulates in general why the natural science course is relevant.	Articulates in satisfactory detail why the natural science course is relevant.	Demonstrates a thorough understanding of the natural science course and its relevance.
Explain how knowledge of natural science is applicable to their lives  NS 2 GS 4	Cannot demonstrate how knowledge of natural science is applicable to their lives	Demonstrates a <i>limited</i> understanding of how natural science is applicable to their lives	Demonstrates a basic understanding of how natural science is applicable to their lives	Demonstrates a satisfactory understanding of how natural science is applicable to their lives	Demonstrates a thorough understanding of how natural science is applicable to their lives
Apply appropriate scientific methodology within one of the natural sciences  NS 3 GS 2; GS 4	Cannot apply appropriate scientific methodology within one of the natural sciences	Provides a <i>limited</i> application of scientific methodology within one of the natural sciences	Provides a <i>basic</i> application of scientific methodology within one of the natural sciences	Provides a satisfactory application of scientific methodology within one of the natural sciences	Provides a thorough application of scientific methodology within one of the natural sciences
Evaluate the validity and limitations of scientific theories and claims.  NS 4 GS 2; GS 4	Does not evaluate the validity and limitations of scientific theories and claims	Provides a <i>limited</i> evaluation of the validity and limitations of scientific theories and claims	Provides a basic evaluation of the validity and limitations of scientific theories and claims	Provides a satisfactory evaluation of the validity and limitations of scientific theories and claims	Provides a thorough evaluation of the validity and limitations of scientific theories and claims
(Lab courses only) Analyze scientific data acquired through laboratory experiences in one of the natural sciences	Cannot analyze/interpret scientific data in the natural sciences	Demonstrates a <i>limited</i> ability to analyze/interpret scientific data in the natural sciences	Demonstrates a basic ability to analyze/interpret scientific data in the natural sciences	Demonstrates a satisfactory ability to analyze/interpret scientific data in the natural sciences	Demonstrates a thorough ability to analyze/interpret scientific data in the natural sciences
NS 5 GS 2					

<sup>\*</sup>NOTE: The category "Proficient" describes the skills of the typical student near the end of the course. Advanced is anything above proficient.