

GE SLO 5.4 - Understand the potential limits of scientific endeavors and the value systems and ethics associated with human inquiry.

Criteria	1 - Beginning	2 - Developing	3 - Proficient	4 - Advanced
Recognition of Scientific Limits	Struggles to identify or explain limitations of science	Acknowledges some limitations but lacks depth or clear examples	Identifies key limitations with relevant examples and reasonable understanding	Clearly articulates multiple limitations of science with insightful examples and deep understanding
Understanding of Ethical Considerations	Limited or no understanding of ethical concerns related to scientific inquiry	Identifies some ethical issues but lacks depth or application	Discusses ethical concerns with reasonable understanding and examples	Demonstrates deep analysis of ethical issues, considering broader societal implications
Integration of Value Systems	Minimal or no recognition of how values shape scientific inquiry	Identifies some connections between science and value systems but lacks depth	Clearly explains how value systems influence scientific pursuits	Insightfully evaluates the interplay between scientific inquiry and human values, considering diverse perspectives
Use of Evidence, Examples, and Real-World Application	Minimal or no supporting evidence; limited or no connection to real-world applications	Uses limited evidence, some of which may be unclear or not fully relevant; attempts to relate scientific and ethical limits to real-world issues but lacks depth	Provides evidence, but lacks diversity or depth; makes clear connections between scientific and ethical considerations in real-world scenarios	Supports claims with strong, diverse evidence from credible sources; effectively connects scientific limits and ethical considerations to real-world situations with insightful reflection

(updated September 2025)