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

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| **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)**