

**General Education
Minimum Course Expectations
Reasoned Judgment: Scientific Thinking**

Scientific Thinking: Understanding and applying the scientific method.

At the 100-level: Instructors should emphasize at least two expectations from the skills category.

At the 200-level: Instructors should emphasize at least two expectations from the skills category and one from the attitudes/behaviors category.

Criteria addressed should be identified on the syllabus.

Knowledge (embedded):

All general education courses addressing scientific thinking are expected to identify relevant content knowledge in terms of the appropriate principles, theories and methods.

Skill

1. Recognizes the application of the scientific method in solving contemporary problems.
2. Critically evaluates information and sources.
3. Converts relevant information into various forms (e.g. charts, graphs, tables, figures).

Attitudes/Behaviors

1. Considers alternate, divergent, or contradictory perspectives or ideas.
2. Includes novel or unique approaches to problems or ideas.

Supporting Information:

The criteria presented above were developed through conversations with department chairs/directors in the College of Natural and Health Sciences, and by using the AAC&U Value rubrics for quantitative literacy and creative thinking (www.aacu.org/value/rubrics).