

Proposed New Criteria for Quantitative Literacy AOI

Drake students will learn to reason with the components of symbolic and/or mathematical languages as well as effectively use the principles that govern them. Courses that satisfy this requirement will have formal representations and reasoning as their principal focus. They may also address questions that engage learners with the world around them to analyze quantitative claims that arise from the study of civic, political, scientific, or social issues. Quantitative literacy courses address the quantitative aspects of a specific discipline or an interdisciplinary issue or problem.

Students will be able to:

1. Translate problem scenarios into formal representations and fluently execute appropriate procedures,
2. Solve problems using components from symbolic and/or mathematical languages and their underlying principles, and
3. Evaluate and analyze the implications and/or applications of the quantitative reasoning process.

Current Criteria for Quantitative Literacy AOI

Drake students will learn to reason with the symbols and components of mathematical languages as well as effectively use the principles that underlie these operations. Courses that satisfy this requirement will have mathematical reasoning as their principal focus. They may also address questions that engage learners with the world around them and help them to analyze quantitative claims that arise from the study of civic, political, scientific, or social issues. Quantitative literacy courses may be focused on the mathematical needs of a specific discipline or on a specific interdisciplinary issue or problem. These courses will engage students to achieve these student learning outcomes. Students will be able to:

1. Analyze and present solutions to problems using symbols and components from mathematical languages and their underlying principles.
2. Identify and execute appropriate mathematical operations for a given question.
3. Evaluate claims based upon mathematical arguments.