

Mathematics Learning Outcomes

*Use this **interactive template** to *describe how* each of the specific learning outcomes will be addressed and assessed for this content/competency area. The description of methods of assessment must indicate how at least one assignment will allow students to demonstrate critical thinking, effective communication, or an understanding of issues of cultural diversity. The rubrics used by the General Education Program to assess those outcomes are available for review at <https://docushare.louisville.edu/dsweb/View/Collection-3289>

Course I.D:

Course Title:

Mathematics (3 hours in Mathematics)

Mathematics is concerned with solving real-world problems through mathematical methods. Students who satisfy this requirement will *demonstrate* that they are able to do all of the following:

1. Represent mathematical information symbolically, visually, and numerically.

Outcome (specify how this course meets the outcome stated above)

Assessment (means of assessment such as essays, quizzes, tests, homework, journals, group projects, class discussion, research papers, field work, service learning, independent study, etc.)

2. Use arithmetic, algebraic, and geometric models to solve problems.

Outcome (specify how this course meets the outcome stated above)

Assessment (means of assessment such as essays, quizzes, tests, homework, journals, group projects, class discussion, research papers, field work, service learning, independent study, etc.)

3. Interpret mathematical models, such as formulas, graphs, and tables.

Outcome (specify how this course meets the outcome stated above)

Assessment (means of assessment such as essays, quizzes, tests, homework, journals, group projects, class discussion, research papers, field work, service learning, independent study, etc.)

- 4. Estimate and check answers to mathematical problems, determining reasonableness; alternatives; and correctness and completeness of solutions.**

Outcome (specify how this course meets the outcome stated above)

Assessment (means of assessment such as essays, quizzes, tests, homework, journals, group projects, class discussion, research papers, field work, service learning, independent study, etc.)