In Mathematics courses, students develop problem-solving capabilities that follow logical patterns and provide the essential mathematical background for work in other fields and courses. Mathematics will be composed of specifically designed courses (e.g., finite mathematics, calculus, etc.); each designed to develop an appropriate degree of mathematical competency. The main topics in each course will depend on the level of competency required for enrollment in the course. Connections will be drawn to life and culture; also, there will be discussion of the historical development of mathematical topics.

***Courses in the Mathematics category of General Education address the following learning outcomes:***

**I. knowledge of diverse human cultures and the physical and natural world, allowing students to**

a. use theories and principal concepts, both contemporary and enduring, to understand technologies, diverse cultures, and the physical and natural world

**II. intellectual and practical skills, allowing students to**

a. make informed judgments

b. analyze data to examine research questions and test hypotheses

*c. report information effectively and responsibly*

**III. personal and social responsibility, allowing students to**

d. demonstrate the ability to think reflectively

**IV. integrative and applied learning, allowing students to**

a. identify and solve problems

Primary learning outcomes are indicated in plain text and secondary learning outcomes are indicated in italics.

Any student needing to arrange a reasonable accommodation for a documented disability should contact Student Access and Accommodation Services at 350 Fell Hall, (309) 438-5853, or visit the website at <https://studentaccess.illinoisstate.edu/>