

# GEP Mathematical Sciences

## Requirement (6 credit hours)

- A total of six credit hours from the university approved GEP Mathematical Sciences course list.
- At least one course must have an MA or ST prefix.
- Special Note: If a student changes a General Education course except for HES courses from a letter grade to credit-only (S/U), then the course will not satisfy the GEP requirements. Consult your academic advisor if you have questions.

## Double-counting

- A course taken to satisfy a Major requirement may also satisfy this requirement if the course is on the approved GEP Mathematical Sciences course list.
- A course that satisfies the Mathematical Sciences requirement may also satisfy the Global Knowledge or U.S. Diversity co-requisite if the course also exists on either university approved GEP co-requisite course list.
  - Note: Double-counting with U.S. Diversity applies to students matriculated prior to Fall 2023. Students matriculated after Fall 2023 may only double-count Global Knowledge.

## Rationale

A logical approach to problem solving is important for successful functioning in society. It is also important that students be able to formulate models, be critical consumers of quantitative information, communicate mathematically and solve problems.

## Category Objectives

Each course in Mathematical Sciences will provide instruction and guidance that help students to:

1. improve and refine mathematical problem-solving abilities; and
2. develop logical reasoning skills.

Code	Title	Hours	Counts towards
GC 320	3D Spatial Relations	3	
HON 291	Honors Special Topics-Mathematics	3	
LOG 201	Logic	3	
LOG 335	Symbolic Logic	3	
MA 103	Topics in Contemporary Mathematics	3	
MA 103A	Topics in Contemporary Mathematics	3	
MA 105	Mathematics of Finance	3	
MA 107	Precalculus I	3	

MA 111	Precalculus Algebra and Trigonometry	3
MA 114	Introduction to Finite Mathematics with Applications	3
MA 121	Elements of Calculus	3
MA 131	Calculus for Life and Management Sciences A	3
MA 141	Calculus I	4
MA 151	Calculus for Elementary Education I	3
MA 152	Calculus for Elementary Education II	3
MA 231	Calculus for Life and Management Sciences B	3
MA 241	Calculus II	4
MA 335	Symbolic Logic	3
PHI 250	Thinking Logically	3
ST 101	Statistics by Example	3
ST 311	Introduction to Statistics	3
ST 312	Introduction to Statistics II	3