

# Mathematics

## First-Year Program

**A H 1013. Introduction to Mathematics**  
This course is designed to provide students with a solid foundation in mathematics. It covers topics such as set theory, logic, and the foundations of mathematics. Prerequisites: None. Credit: 3. **A H 1013.**

**A H 1033. Introduction to Calculus I**  
This course introduces the concepts of limits, derivatives, and integrals. Prerequisites: A H 1013. Credit: 3. **A H 1033.**

**A H 1103. Introduction to Mathematics II**  
This course continues the study of set theory and logic, and introduces the concept of mathematical induction. Prerequisites: A H 1013. Credit: 3. **A H 1103.**

## MATH-1013. Introduction to Calculus I

This course covers the basic concepts of calculus, including limits, derivatives, and integrals. Prerequisites: A H 1013. Credit: 3. **MATH-1013.**

## MATH-1023. Introduction to Calculus II

This course covers advanced topics in calculus, including multiple integrals and differential equations. Prerequisites: MATH-1013. Credit: 3. **MATH-1023.**

## MATH-1033. Finite Mathematics for the Social Sciences

This course covers topics in finite mathematics, including probability, statistics, and linear algebra. Prerequisites: Gr. 12. Credit: 3. **MATH-1033.**

## MATH-1103. Introduction to Mathematical Reasoning

This course focuses on the logical foundations of mathematics, including set theory, logic, and the foundations of mathematics. Prerequisites: A H 1013. Credit: 3. **MATH-1103.**

## MATH-2213. Linear Algebra

This course covers the theory and applications of linear algebra, including vector spaces, linear transformations, and eigenvalues. Prerequisites: A H 1023 or A H 1033. Credit: 3. **MATH-2213.**

