



## **Objectives for the HLGU Mathematics Major**

### **Statement of Mission and Purpose:**

The mission of Hannibal-LaGrange University is to provide an excellent education in both liberal arts and professional disciplines in a distinctively Christian environment that integrates Christian faith and learning in preparing graduates for personal and career effectiveness.

Galileo Galilei said, “Mathematics is the language with which God has written the universe.” The mission of the Hannibal-LaGrange University Mathematics Department is to help students understand God’s creation better by providing a supportive and Christian environment in which every student has experiences that will broaden their mathematical awareness and problem solving abilities. This will be accomplished by providing mathematical support to meet the discipline requirements for diverse majors, and by preparing majors for graduate study or careers requiring expertise in mathematics.

### **Objectives for the Mathematics Major:**

1. The Mathematics major will acquire the ability and skills in the major branches of mathematics, including: calculus, linear and abstract algebra, geometry, probability and statistics, and discrete mathematics.
2. The Mathematics major will apply the methods of direct proof and indirect proof to solve problems.
3. The Mathematics major will describe the historic development of mathematics.
4. The Mathematics major employs technology to investigate mathematical concepts and applications.
5. The Mathematics major will develop the ability to communicate effectively the overall processes and steps in solving a mathematical problem.
6. The Mathematics major will read current literature in mathematics and communicate it orally using appropriate presentation methods.

**Our purpose is to help you discover  
God’s purpose for your life.**