

## **College of Sciences Career Guide Bachelor of Science in Mathematics**

### **About the Major**

The Bachelor of Arts in Mathematics is designed to include a large level of flexibility to serve students in a variety of areas in mathematics, including pure math, computational math, applied math, and statistics. Mathematics is a powerful tool for solving practical problems and a highly creative field of study, combining logic and precision with intuition and imagination. The basic goal of mathematics is to reveal and explain patterns, whether the pattern appears as electrical impulses in an animal's nervous system, as fluctuations in stock market prices, or as fine detail of an abstract geometric figure. With today's powerful computers, mathematics is being used in science and engineering in unprecedented ways, such as planning the path of a robotic arm, modeling oil reservoirs under the surface of the earth, and to make and break secret codes.

### **Skills**

Mathematical Reasoning  
Problem Solving  
Ability to Interpret Data  
Critical Thinking

### **Potential Career Opportunities**

Auditor  
Astronomer  
Budget Analyst  
Computer Research Scientist  
Data and Systems Administrator  
Economist  
Financial Analyst  
Management Analyst  
Market Research Analyst  
Statistician  
Survey Researcher  
STEM Educator

## **Common Career Areas for this Major**

Research

Data and Analysis

Banking or Finance

Project Management

Computational Science

Statistics

STEM Education