



# MATHEMATICS

## BACHELOR OF ARTS (B.A.)

**Apply your analytical and problem-solving skills to dive deeper into mathematics and the many career opportunities available.**

Students develop a sound background in both pure and applied mathematics while inculcating a respect for objective reasoning, clear ideas, and precise expression. Our goal is to make students sophisticated in the way they think and in the way they approach problems. This heightened sophistication should extend beyond the boundaries of mathematics into other areas.

### OPPORTUNITIES AT KING'S COLLEGE

Students gain thorough undergraduate training in mathematics for those desiring mathematical careers in education, research, industry, and government, and courses for those who wish to follow a limited programming mathematics. Here is what else makes our program stand out:

**Customized academic tracks:** double major and major-minor options are available to students in conjunction with chemistry, computers and information systems, computer science, biology, economics, physics, and other disciplines. This gives students the opportunity to tailor their college courses to meet their career goals.

**Personalized academic experience:** small class sizes ensure each student receives individual attention from faculty, fostering a personalized academic journey. This close-knit learning environment enhances student-faculty interaction and mentorship.

**State-of-the-art technology:** students have access to modern computer labs and spaces across campus to complete coursework and gain experience in industry standard software.



**KING'S  
COLLEGE**  
TRANSFORMATION. COMMUNITY. HOLY CROSS.

## CAREER OPPORTUNITIES

Many mathematics graduates go on to earn master's degrees in mathematics, science, business, and education. Some go on to graduate from law school or math Ph.D. programs, while others become secondary mathematics teachers, who are always in demand. Many of our graduates are successful in business and government, where they apply their analytical skills. Some other roles for graduates include:

- actuary
- data scientist
- statistician
- operations research analyst
- auditor

## DEGREE REQUIREMENTS

Below is a sample of courses offered in this program. For a complete list of programs and courses, see our Degree Requirements online.

<b>MATH 127</b>	Logic and Axiomatics
<b>MATH 129</b>	Analytic Geometry and Calculus I
<b>MATH 130</b>	Analytic Geometry and Calculus II
<b>MATH 231</b>	Analytic Geometry and Calculus III
<b>MATH 235</b>	Discrete Mathematics
<b>MATH 250</b>	Linear Algebra
<b>MATH 367</b>	Real Analysis I
<b>MATH 425</b>	Abstract Algebra
<b>MATH 490</b>	Junior seminar
<b>CS/CIS 116</b>	Fundamentals of Programming I
<b>CS/CIS 117</b>	Fundamentals of Programming II
<b>CS 115</b>	Introduction to Computing

## ACTUARIAL SCIENCE, INDUSTRY, AND GOVERNMENT

<b>MATH 301</b>	Financial Mathematics
<b>MATH 361</b>	Probability and Statistics
<b>MATH 362</b>	Statistics
<b>MATH 363</b>	Mathematical Modeling
<b>MATH 365</b>	Numerical Analysis

## SECONDARY TEACHING

<b>MATH 236</b>	College Geometry
<b>MATH 361</b>	Probability and Statistics I
<b>MATH 362</b>	Probability and Statistics II
<b>PHYS 111</b>	General Physics I
<b>PHYS 112</b>	General Physics II
<b>CHEM 113</b>	General Chemistry I
<b>CHEM 114</b>	General Chemistry II



# \$125,770

MEDIAN ANNUAL SALARY  
FOR ACTUARIES

# 22%

OVERALL EMPLOYMENT GROWTH  
FROM 2023-33

*Statistics provided by U.S. Bureau of  
Labor Statistics*

## CONTACT US

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[kings.edu/math](https://kings.edu/math)