

# Applied Mathematics



Career Pathways

## School of the Sciences

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### Overview:

Options for a mathematics major are limitless. You will graduate with a solid background in mathematics and statistics and possess the ability to use data to solve problems in a wide variety of disciplines. As an Applied Mathematics major, you can customize your degree based on your personal career goals and interests. A degree in mathematics will help you develop the tools to contribute in many fields, from private business to public sector agencies. Depending on your interests, you will find career paths in a number of organizations and sectors.

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### Acquired Skills MOST Valued by Employers:

- Mathematical and Statistical Modeling
  - Quantitative Data Analysis
  - Analytical Skills for Tackling Problems
  - Career & Self Development
  - Communication
  - Critical Thinking
  - Equity & Inclusion
  - Leadership
  - Professionalism
  - Teamwork
  - Technology
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### Common Pathways:

- Accounting and Finance
  - Budget Analysis
  - Engineering Analysis
  - Sales and Marketing Management
  - Actuarial Science
  - Programming
  - Statistician
  - Architecture
  - Numerical Methods and Analysis
  - Analysis Operations
  - Optimization and Scheduling of Resources
  - Engineering
  - Operations Research
  - Project management
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*Please note that some of these pathways require an advanced post bachelor's degree*

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### Common Industries:

- Business
  - Government
  - Engineering
  - Education
  - Technology
  - Financial services
  - Chemical and pharmaceutical companies
  - Insurance companies
  - Consulting
  - Natural Sciences
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### Sample of Employers of Stevenson University students:

- Carlisle & Gallagher Consulting Group
- Danko Arlington
- Edaptive Systems
- GEICO
- General Dynamics IT
- Grace Brethren Christian Academy of MD
- MetLife

### **Internship Sites for Stevenson Students:**

- Athena
- Bunting Management Group
- Catoclin High School
- Charles County Circuit Court
- Citigroup (OneMain Financial)
- Maryland Insurance Administration
- Maxim Healthcare Services
- MetLife
- Social Security Administration
- T. Rowe Price
- U.S. Census Bureau
- UPS

### **An Employer's Perspective:**

Organizations value math majors because they possess high levels of problem solving skills, analytical proficiencies, and knowledge of math theory and practical applications. These types of skills are highly valued by public and private companies in every industry, including finance, computer and data science, science, engineering, financial services, and biotechnology.

“Employment of mathematicians is projected to grow 23 percent from 2012 to 2022, much faster than the average for all occupations. Businesses will need mathematicians to analyze the increasing volume of digital and electronic data.”

[<http://www.bls.gov/ooh/math/mathematicians.htm>]

### **Salaries:**

According to the NACE Salary Survey, the average starting salary for mathematics majors nationwide was \$61,016. However, salaries are dependent upon the industry, level of position, and geographical region. A few good resources for researching salaries of specific jobs within various industries are [www.salary.com](http://www.salary.com) and [www.payscale.com](http://www.payscale.com).

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