Mathematics
A Path to Numerous High-Demand Careers

Individuals with mathematical expertise play important roles in our everyday lives. Imagine finding the most efficient way to schedule airline routes between cities or calculating the safety of new medicines. Think about decoding messages that could impact today's security. Mathematics has made the technological innovations that we see today in health care, computers, mobile devices, automobiles and green energy possible.

“Advancements in technology usually lead to expanding applications of mathematics, and more workers with knowledge of mathematics will be required in the future.”


Career Paths
The associate’s degree in Mathematics prepares you for a bachelor’s degree in Mathematics or a number of related degrees. Many students combine extensive mathematical skills with specialized knowledge in order to pursue a variety of occupations:

- accountant
- actuary
- computer programmer
- computer scientist
- computer software engineer
- database administrator
- economist
- educator
- engineer
- financial analyst
- network administrator
- operations research analyst
- physicist
- statistician

With a Mathematics degree from the College, you will gain the necessary knowledge for transfer to a variety of bachelor’s degree programs. You will learn about several career paths available to you, and paying the College’s tuition rate on your way to a four-year degree can save you substantial tuition dollars.

In the Mathematics program, you will learn how to accomplish a variety of tasks:
- communicate mathematical ideas
- learn and apply algorithms
- analyze and solve mathematical problems
- construct mathematical proofs
- develop the capacity for logical, inductive and deductive reasoning
- describe the behavior of physical phenomena using mathematical models

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Pursuing a career as a mathematician, computer scientist or physicist requires at least a master’s degree, and many related professions require at least a bachelor’s degree. Several math- and science-based occupations are in high demand in Philadelphia.

**The Mathematics Program**
In addition to algebra and calculus, this program offers freshman- and sophomore-level courses in continuous and discrete mathematics. The mathematical and reasoning skills you acquire in this program are valuable to career success.

You also have the opportunity to explore emerging fields in depth through:
- computer programming and algorithm development
- linear algebra
- differential equations

**Salaries**
Mathematician - $93,580

**In-demand occupations in Philadelphia requiring mathematical expertise:**
- Accountant: $60,340
- Civil Engineer: $76,590
- Database Administrator: $71,550
- Electrical Engineer: $83,110
- Educator, Secondary School: $52,200
- Educator, Middle School: $50,770
- Financial Analyst: $73,670
- Network Administrator: $67,710
- Statistician: $72,820