University *of* New Haven

BACHELOR OF SCIENCE

MATHEMATICS

Career Growth

According to Encoura, the leading research and advisory firm focused exclusively on higher education, some of the most popular math careers are going to see significant growth in the 10 years leading up to 2027.

STATISTICAL DATA ANALYSTS
↑29%

ACTUARIAL ASSISTANTS
↑17%

The University of New Haven has been recognized as one of **The 387 Best Colleges** in the country by ***The Princeton Review.***

Program Description

Math is everywhere, from the spiral of a shell to the timing of a symphony, and it is integral to everything around us. As a mathematics student, you will apply math's universal language to your area of interest. If you're interested in using numerical techniques to solve problems across a broad range of disciplines, or you're eager to apply mathematical reasoning to fields like physics, chemistry, operations research, economics, business, finance, or engineering, then a mathematics degree is an excellent choice for you.

The Mathematics program at the University of New Haven is active, competitive, and committed to providing a quality mathematics experience that opens up opportunities for our graduates to succeed in a variety of academic and professional careers in the field of mathematics and even beyond it. It is a life-changing experience that is intended to connect the student with the world of mathematics in all its diversity.

Throughout the program, you will strengthen both your quantitative and analytical thinking and be engaged and challenged by problems, puzzles, and patterns. Our facilities deliver state-of-the-art technology, including specialized mathematical and statistical software applications that will enable you to explore and develop your skills in different disciplines within mathematics.

The Absolute Value of the 2022 Mathematics Research Community

The American Mathematics Society (AMS) has accepted a proposal by faculty members — including the University of New Haven's Daniel Cicala — for a Mathematics Research Community on Applied Category Theory to be held in the summer of 2022. The faculty will lead 40 early-career mathematicians through an intensive week of research on that topic. The AMS Mathematic Research Communities is a professional development program for mathematicians who are just starting out. The program helps them develop collaborative research skills and build a network centered around an active research domain. Mentoring from leaders in the specific topic area and valuable career guidance are also part of the equation.

Sample Courses

- Calculus
- Differential Equations
- Foundations of Mathematics
- Linear Algebra
- Mathematical Modeling
- Probability and Statistics

Sample Careers

- Actuary
- Cryptographer
- Data scientist/analyst
- Graduate school (Math, Statistics, Education, Operations Research, Law, Architecture, MBA, Finance)
- Insurance industry
- Project manager
- Statistician
- Teacher
- Web developer

Program Options

B.S. in Mathematics

Through the B.S. program, you will prepare for a wide variety of careers and job titles, such as being a computer consultant, statistical analyst, scientific research analyst, product manager, educator, or business manager. You could also pursue graduate studies in related fields.

B.S. in Mathematics/M.S. in Data Science Dual Degree Program

This program connects our undergraduate Mathematics program to an in-house professional graduate program in Data Science, an area of intense activity, research, and interest in the academic, governmental, and industrial sectors.

In this dual degree program, students earn their B.S. and M.S. degrees in 5 years. The program connects our undergraduate Mathematics program to an in-house professional graduate program in Data Science, an area of intense activity, research, and interest in the academic, governmental, and industrial sectors.

B.S. in Actuarial Science

Through the B.S. in Actuarial Science program students acquire the mathematical background needed to competitively pursue well-paid and in-demand careers as actuaries, financial analysts, and other positions that employ mathematics and statistics. Due to the inter-disciplinary nature of the program, students will acquire the skills in mathematics, statistics, and business that are needed to quantify risk for companies and government agencies across the globe or attend graduate school in related fields.

> *"The professors were so welcoming and supportive toward me; they always had their doors open to help me with math, offer me advice, and introduce me to different aspects of the math world. Without all of the support and opportunities I received at the University of New Haven — research, teaching, extracurriculars, and courses alike — I do not think I would have continued on as a Mathematics graduate student."*

ANGELA MASTROPIETRO '18
B.S. in Mathematics
M.S. in Mathematics • University of Connecticut

About Us

The University of New Haven, founded on the Yale campus in 1920, is a private, coeducational university situated on the coast of southern New England. It's a diverse and vibrant community of more than 7,000 students with campuses across the country and around the world.

Within our colleges and schools, students immerse themselves in a transformative, career-focused education across the liberal arts and sciences, fine arts, business, healthcare and health sciences, engineering, public safety, and public service. More than 100 academic programs are offered, all grounded in a long-standing commitment to collaborative, interdisciplinary, project-based learning.

At the University of New Haven, the experience of learning is both personal and pragmatic, guided by a distinguished faculty who care deeply about individual student success. As leaders in their fields, faculty provide the inspiration and recognition needed for students to fulfill their potential and succeed at whatever they choose to do.

6 Reasons to Choose the University of New Haven for Mathematics

1. Our faculty bring extensive research and teaching experience in their fields, covering a wide range of topics from both pure and applied mathematics.

2. Want to work in the exciting field of government intelligence? The National Security Agency (NSA) is the largest hirer of mathematicians.

3. The Mathematics faculty and staff can connect you with nearly 20 different mathematics professional societies and organizations.

4. Your class sizes will be small, allowing for a high degree of individual attention.

5. First-year Mathematics students have the opportunity to study abroad at the University of New Haven campus in Prato, Italy, in the fall — at the cost of University of New Haven tuition, room and board, plus airfare. We also offer other short-term opportunities for study abroad, depending on your educational goals. (*Subject to the latest COVID-19 mitigation policies.)*

6. You will have opportunities for employment as a tutor in The Math Zone. This innovative learning center combines direct teaching with e-learning technology.

Your Success Starts Here

For more information, or to arrange a visit, contact

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newhaven.edu