



## We've got your number.

*Do your friends consider you a computer whiz? Are numbers your language of choice?* If so, then you should count yourself among the members of Assumption's Department of Mathematics and Computer Science.

Assumption offers you opportunities to study math or computer science in a stimulating and supportive environment. You'll think logically and solve problems, as well as communicate clearly and effectively — skills that are in high demand in today's increasingly technological world.

"Assumption prepared me for success in the Engineering program at Notre Dame by ensuring I had a solid understanding of the fundamentals of math and the sciences. My professors have been extremely influential in my education and have pushed me to where I am today."

Alex Casey '15, Mathematics and Physics, 3:2  
Program: Civil Engineering at University of Notre Dame, Post-Grad Position: Project Engineer at Clark Construction Group LLC

### DID YOU KNOW?

Computer science students have access to a state-of-the-art robotics lab through our popular Artificial Intelligence course, where they work on projects like developing neural networking programming to drive a robotic car.

## Equation for success

In the classrooms and labs at Assumption, mathematics and computer science students calculate, compute and collaborate with others who are just as passionate about probability and programming as you are.

Under the instruction of our expert faculty, you study mathematical theories and/or computer science languages. Using pencils, PCs and Macs, you grapple with equations and devise solutions to complex problems. As a result, you obtain the

reasoning abilities and technical proficiency sought after by employers in fields ranging from business to engineering to education.

And, with more than half of our math majors preparing to be teachers, Worcester's the place to be. School districts throughout Massachusetts host our student-teachers and hire our graduates. Of course, you'll find Assumption graduates teaching across the country too.



## Course of study

Assumption offers the following majors and minors in mathematics and computer science:

### ACTUARIAL SCIENCE

**Major.** You will study mathematics, economics, and business studies and will be prepared to take the first two Actuarial Exams sponsored by the Society of Actuaries and the Casualty Actuarial Society. Develop the skills to apply mathematical and statistical methods to assess risk in a number of industries.

### MATHEMATICS

**Major or minor.** You have the opportunity to study a variety of the fields of mathematics, including calculus, probability, algebra, analysis, and topology. Develop strong analytical and problem-solving skills.

#### Major in Education with a major in math.

Assumption's curriculum emphasizes proficiency in mathematics and early, hands-on experience in the classroom. You acquire the skills, experience and knowledge necessary to achieve your teaching license and excel as a classroom teacher.

### COMPUTER SCIENCE

**Major or minor.** You develop a solid foundation in computer programming and further your knowledge of computer hardware and software. You also gain an appreciation for the social and ethical implications of technology.

### DATA ANALYTICS

**Minor.** You'll learn how to gather, process and evaluate large amounts of information, and what it means for the rest of the world.

### INFORMATION TECHNOLOGY (IT)

**Minor.** You discover the far-reaching impact of information technology on individuals and organizations as you study topics ranging from electronic communications to e-commerce.

A minor in IT is an excellent pairing to a major in mathematics, computer science or business studies.

Learn about our math and computer science faculty, courses and degree requirements at [www.assumption.edu/math](http://www.assumption.edu/math).

## ENGINEERING

Students in mathematics or computer science may choose to take advantage of Assumption's engineering partnerships with the University of Notre Dame or Washington University. Students who choose to continue their engineering studies at Notre Dame will receive two bachelor's degrees in five years - one from Assumption and one from the University of Notre Dame. Students interested in the WashU program will receive a bachelor's degree from Assumption and a bachelor's and/or master's degree from Washington University.

For a complete list of Assumption's partnerships, visit [www.assumption.edu/partners](http://www.assumption.edu/partners).

*"I have gained a better understanding of the professional roles within the infrastructure technology organization at The Hanover, gaining the ability to see both the challenges and successes that come from working in a corporate environment. The classes that I have taken at Assumption as a Computer Science major have provided me with a solid foundation to succeed."*

- Christopher Cuzzupe '17, Computer Science major, Post-Grad Position, Associate IT Business Analyst at The Hanover Insurance Group, Inc.

*"The members of the mathematics department at Auburn High School always enjoy working with students from Assumption. We find that they are knowledgeable and open to new ideas. And with their professional attitude, we feel very confident putting our students' education in their hands."*

- Annette Lemerise, chair, Department of Mathematics, Auburn (Mass.) High School

## Learn by doing

In order to gain valuable career experience and increase the competitiveness of your applications to graduate programs, mathematics and computer science majors are strongly encouraged to participate in an internship. Through your internship, you acquire the knowledge, confidence and professionalism that will give you a leg up in today's competitive job market and also make important contacts that may lead to employment.

# 81%

2017 graduates who completed at least one internship, research or service learning experience

## WHAT'S NEXT?

Assumption mathematics and computer science students are prepared to either go on to graduate studies in mathematics or computer science or enter directly into careers in such fields as business, communications, education, finance, health care and information technology. Here's a sampling of where Assumption alumni are adding to our world:

### SAMPLE GRADUATE SCHOOLS

Boston College  
Boston University  
Dartmouth College  
North Carolina State University  
Rensselaer Polytechnic Institute  
University of Maine

### SAMPLE EMPLOYERS

American Express  
George Washington University  
Grotan-Dunstable Regional Middle School  
The Hanover Insurance Group, Inc.  
Meditech  
Oracle  
Raytheon  
School districts:  
Bristol, Conn.  
Fitchburg, Mass.  
Killeen, Texas  
Milton, Mass.  
San Francisco, Calif.  
Wells River, Vt.  
Worcester, Mass.