

# MATHEMATICS AND STATISTICS

## COLLEGE OF ENGINEERING AND SCIENCE



### MAJORS

- Mathematics BS – Actuarial Science
- Mathematics BS – Mathematical Sciences
- Mathematics BS – Secondary Education
- Mathematics BS – Statistics

### MINORS

- Actuarial Science\*
- Elementary School Mathematics
- Mathematics
- Middle School Mathematics
- Secondary School Mathematics
- Statistics

### GRADUATE PROGRAM

- Data Analytics (MS)

\*SRU is required by the State Authorization Reciprocity Agreement and US Department of Education to notify you whether our program meets the academic licensure/certification requirements in another state. All jurisdictions have their own requirements for licensure/certification eligibility. SRU is approved to offer programs that may lead to licensure/certification in Pennsylvania. We are unable to determine our program's eligibility in states other than PA. Please review the licensing board contact resource at [www.sru.edu/licensure-certification](http://www.sru.edu/licensure-certification) to seek guidance on the requirements of licensure in your home state or where you would like to practice professionally. Note that state requirements are subject to change at any time and without notice.

**SlipperyRock**  
University

A member of Pennsylvania's State System  
of Higher Education

**EXPERIENCE THE DIFFERENCE**

**[www.sru.edu](http://www.sru.edu)**

### WHAT CAN I DO WITH A MATHEMATICS DEGREE?

Majoring in mathematics equips graduates for diverse roles across industries, from education to technology and beyond, including versatile career paths like actuarial science, data analysis, and statistics. Opportunities abound in the tech sector, with roles in software development, cryptography, and algorithm design. Mathematics cultivates critical thinking crucial for engineering, research, and entrepreneurship. Additionally, it prepares individuals for secondary education, where they can inspire future generations of math students.

### MATHEMATICS AND STATISTICS AT SRU

We are a student-centered, community-engaged department that teaches you the fundamentals of theoretical and applied mathematics in an exciting and challenging environment. In our program you can develop your communication and technical skills through paid tutoring and internship opportunities, engage in research that has local, regional, or national importance, and complete service projects that use mathematics to improve society. You will have opportunities to compete in national mathematics competitions, to work closely with professors both in and out of the classroom, and to build professional connections and friendships that will last a lifetime.

### WHY CHOOSE SRU MATHEMATICS AND STATISTICS?

- 1. Personalized Degree Program:** Our BS in mathematics allows students to focus on their own interests by offering concentrations in actuarial sciences, secondary education, statistics, and mathematical sciences. These concentrations share core classes which gives students the flexibility to change concentrations if their interests change; at the same time, our concentrations include more math electives than most other programs in the region.
- 2. Dedicated Faculty:** Our faculty are committed to the success of each and every student. This includes engaging in faculty-student research projects, helping students find internship opportunities, being accessible in and out of the classroom, and being involved with student clubs and organizations. They regularly publish original research and have won awards in teaching, research, and advising at the university level and beyond.
- 3. High Quality Internships and Research Opportunities:** Our students regularly obtain competitive internships and funded research opportunities during the year, and summer, both with SRU faculty and externally via summer REU's. Our Statistical Consulting Center often employs math majors to let them put theory into practice and gain first-hand experience valued by employers. We encourage our students to engage in career-building opportunities by funding their travel to major conferences, supporting their participation in national competitions, and reimbursing them for professional actuary exams and other certifications.
- 4. Student Success:** Our students regularly obtain scholarships and win university wide awards, and go on to be successful in a wide variety of well-paying fields, with many of our students securing jobs or getting accepted into graduate programs well before finishing their senior year.
- 5. Close-Knit Community:** Our students and faculty work together to build a welcoming and supportive environment. We are especially proud to provide a student work space located next to faculty offices, which is the hub of our department. We also host events like picnics, potlucks, and activities for students and professors to get to know one another outside of the classroom.

## INTERNSHIP OPPORTUNITIES

Our students regularly obtain competitive internships at various locations including:

- Blue Cross Blue Shield
- Canon USA
- Department of Defense and Energy
- Erie Insurance
- Highmark Health
- National Institutes of Health
- National Science Foundation
- National Security Agency
- Nationwide Insurance
- Oak Ridge National Laboratory
- State Farm Insurance
- UPMC

## CAREER OUTCOMES

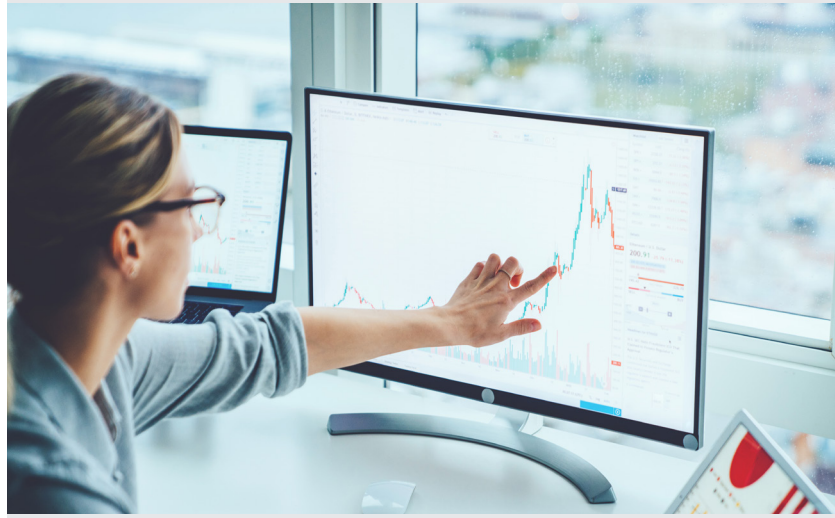
Our graduates have secured careers such as:

- Actuary, Highmark Health
- Associate Professor of Mathematics Education, Longwood University
- High School Mathematics Teacher, Freedom Area High School
- Analyst, BNY Mellon
- Research and Development Engineer, Penn State University
- Research Scientist, Naval Department of Defense
- Senior Analyst, Customer Analytics, Giant Eagle
- Senior Decision Support Analyst, Highmark Health
- Senior Software Engineer, Enclara Pharmacia

Our majors also go on to graduate school in mathematics, education, statistics, and related fields (recently at Auburn University, Clemson University, and Ohio State University). Students in our secondary education concentration go on to complete SRU's Masters in Education, which trains them as teachers, and fulfills graduate coursework requirements needed by Pennsylvania teachers to move from Level 1 certification (5 years only) to Level 2 (permanent).

## CLUBS AND ORGANIZATIONS

- Gamma Iota Sigma - Actuarial Science Club
- Math Club
- Pre-Service Teachers of Mathematics Club
- Dead Poet's Society



## ALUMNI SPOTLIGHT

### Candace Corvino, '23

*Graduate Student, M.Ed.*

"SRU provided me with an educational experience unlike anything that I expected. Small class sizes allow you to create a great relationship with the professors that extends beyond the classroom. The professors will not only help you with your academics, but also help you to find other opportunities to further your future in the career that you want to pursue. I had the opportunity to complete research and organize mathematical outreach events that were an exceptional addition to my resume for graduate school and applying for teacher positions."

### Eric Nero, '21

*Market Analyst, Infiltration Water Technologies*

"SRU provided me with the necessary research and data manipulation skills to stand out in job interviews. It is a smaller department which means it is easier to get to know the professors and for the professors to get to know you and what your goals are."

### Mark Downey, '20

*Actuarial Analyst, Willis Towers Watson*

"SRU really gave me the flexibility to focus on things that would set me apart from other candidates. I was able to pass five actuarial exams prior to graduation which really helped me stand out. The department prepared me to progress in my career quicker than most and getting a fast start is an absolute game changer."

## ACADEMIC CONTACT: FOR MORE INFORMATION:

Vincent Science Center  
Richard Marchand, chairperson  
richard.marchand@sru.edu  
724-738-4952

[www.sru.edu/majors](http://www.sru.edu/majors)

## ADMISSIONS OFFICE:

North Hall Welcome Center  
asktherock@sru.edu  
724.738.2015