

MATHEMATICS

From Study to Skills

Rutgers-Camden offers three comprehensive undergraduate degree programs in the mathematical sciences.

- The Pure Mathematics program is for students looking for a traditional mathematics curriculum.
- The Applied and Computational Mathematics curriculum is directed towards students with an interest in mathematics, computer science, and the overlapping STEM disciplines.
- The Mathematics Education program is for students interested in teaching as a profession, and must be completed with the teacher prep program.

Math majors find employment in a variety of fields. Places of employment for math majors include: banking, finance, insurance, market research, science, computer science, aerospace industries, and educational institutions.

Related Fields: Business, Biology, Chemistry, Computer Science, Engineering, Education, Information Technology, Physics, and Statistics

Skills and Abilities

Mathematical Skills- Students will learn the language of mathematics, computational skills, logical reasoning, complex problem solving, data analysis, pattern recognition, advanced quantitative skills and how to prove or disprove mathematical conjectures.

Analytical Thinking- Students will apply mathematics to the physical world, understand processes, follow complex reasoning, develop critical thinking, construct arguments, and learn computer literacy and discipline.

Communication Skills- Students will develop effective listening and writing skills, the ability to clearly write and organize mathematical information, and the ability to present and discuss mathematical information.

Internships

Rutgers-Camden Math students are encouraged to apply for internships. Some opportunities are:

Analyst, TOC Financial
Burlington Business Solutions
Camden County Office of Sustainability
Enterprise Holdings
First Financial Group
Hadoop & Bigdata
US Department of Energy

National Center for Atmospheric Research
National Energy Partners LLC
Software Developer, Gallup
Target
Vanguard
Woodrow Wilson Teaching Fellowship

What Careers Are Available For Math Majors

The following are samples of first jobs of Rutgers-Camden Math majors:

Special Project Manager, Trek Bicycle Corp

Associate Member of Staff, AT&T

Mathematics Teacher, Freehold Regional HS

Data Analyst, Showboat Hotel Casino

Analyst, Bank of America

Research Assistant, Federal Reserve Bank

Underwriter, Chubb Group of Insurance
Companies

Programmer, Bell Atlantic

Sales Associate, Salomon Smith Barney

Graduate School Options

While many Math majors choose to go directly into the workplace after graduation, others will decide to pursue a graduate degree. Rutgers- Camden Math majors have earned Master's and Doctorate level degrees in Business, Biomedical Engineering, Computer Science, Education, Engineering, Information Technology, and Statistics.

Some examples of Graduate Schools attended by Rutgers alumni are:

Columbia University: Physical Therapy

Duke University: Bioinformatics & Genome Science

Rutgers University: Education, Statistics, Biomedical Engineering

University of Delaware: Mathematics

Yale University: Applied Mathematics

Resources

Consider joining a professional organization such as:

American Mathematical Society

www.ams.org

Mathematical Association of America

www.maa.org

Association for Women in Mathematics

www.awm-math.org

National Council of Teachers of Mathematics

www.nctm.org

Society of Industrial and Applied Mathematics

www.siam.org

Society of Actuaries

www.soa.org

Join the **Math League**, **Student Finance Association**, or **Student Government Association**.

Consider joining STEM Scholars or Q-STEP.

Assist a faculty member with their research.

Visit Raptor Link for internship opportunities in your field of interest.

Connect with professionals on LinkedIn.

Career Center:

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