The master of business and science degree (M.B.S.) is part of a national movement of professional science master’s programs that brings together master’s level study in science or engineering with “plus” courses in business and policy. Rutgers is the only university in New Jersey that offers a statewide master of business and science degree. This master’s degree program involves an unprecedented number and level of partnerships at all three Rutgers campuses in Newark, New Brunswick, and Camden.

The degree is a combination of the M.S. and the M.B.A. degree. Rutgers–Camden offers three concentrations: actuarial sciences, applied computing, and industrial mathematics. All of the concentrations are united under a common Rutgers brand and framework and share some common defining elements including a common set of business courses, hands-on learning, team based learning in a diverse setting, development of personal and professional skills, career development opportunities, internship opportunities, and a modular format allowing for easy transfer of credits between schools and customization of interdisciplinary programs by students.

ADMISSIONS REQUIREMENTS
- Online application ([gradstudy.rutgers.edu/apply/overview](http://gradstudy.rutgers.edu/apply/overview))
- Official transcripts showing a bachelor’s degree with a science/math/engineering major from an accredited university, and a GPA of 3.0 or higher
- GRE scores
- Two letters of recommendation
- If your degree is not in science/mathematics, then you need to have taken calculus I, II, and III, and differential equations and/or linear algebra.
- For the industrial/applied mathematics track basic knowledge of C++ is also required.

FUNDING OPPORTUNITIES
The Graduate School offers competitive funding opportunities in the form of fellowships, scholarships, and tuition remission awards. These awards are determined by the graduate department’s admissions committee and do not require an additional application.

DEGREE REQUIREMENTS
- Students must complete 24 science credits within a concentration and 19 business credits.
- Students must attend a number of professional development activities (12 in total)
- Students must demonstrate relevant work experience. Students have the option of registering for up to six credits in Internship to fulfill this requirement.
- All students have access to the SAKAI PSM site, which contains worksheets for tracking your progress and a study plan for completing the degree.

CONCENTRATIONS
Actuarial Science
This concentration will teach students how to provide assessments of financial security systems with a focus on their complexity, mathematics, and mechanisms. Students will learn how to evaluate the likelihood of events and quantify contingent outcomes to minimize losses, both emotional and financial, associated with undesirable events. Electives can be taken in risk management, financial computing, quantitative finance, and financial mathematics.
Applied Computing
This concentration is tailored to students that are interested in a more applied program than the traditional graduate computer science degree program. This program is also suitable for working professionals that have some scientific training and want to improve their computational skills. The target candidate for this program is someone with a science or engineering background, seeking professional training in computing skills that are most applicable in industry.

Industrial Mathematics
This concentration puts an emphasis on mathematical modeling, computational techniques, and statistical reasoning. Students will develop skills in abstraction, analysis of structure and logical thinking. They will also develop expertise in formulating and solving problems. This concentration provides the knowledge of modeling and numerical techniques fundamental to pursuing a career in industry. Students in this concentration will also study quantitative finance, analytics, and risk management.

CERTIFICATE PROGRAM
The professional science master’s program offers a certificate in science and technology management. Certificates may be used as pathways to the M.B.S. degree as all of the credits transfer once a student becomes matriculated. This is a 19-credit certificate with courses in finance and accounting, marketing, communications, management, and ethics.

• Certificate in science and technology management
• Certificate in pharmaceuticals and clinical trials management
• Certificate in computation and data enabled science and engineering

FACULTY
• Haydee Herrera (Ph.D., State University of New York at Stony Brook) associate professor; program director

The faculty associated with the business and science program is comprised of an extensive, interdisciplinary group of scholars from the fields of algebra, applied mathematics, complex analysis, differential geometry, dynamical systems, probability theory, statistics, and systems biology. Please refer to the program’s website for a complete listing.

Website: psm.rutgers.edu

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