



Business and Science (M.B.S.)

Rutgers is helping professionals respond to growing international competition in science innovation with a new degree: the master of business and science (M.B.S.). As part of a national movement of professional science master's programs, the M.B.S. program brings together the master of science and the master of business administration degrees, with 24 credits in the sciences and 19 credits in business.

Business classes introduce students to the management of science and technology. Course offerings include finance and accounting, marketing, communication and leadership, management of science and technology, ethics, and a capstone course covering entrepreneurship and intrapreneurship. Rutgers–Camden offers two concentrations within this program: **actuarial sciences** and **industrial mathematics**.

Science meets business in the Rutgers M.B.S. program, a new degree for professionals who possess scientific expertise and business know-how. At Rutgers–Camden, students can focus on one of two areas within the M.B.S. program: actuarial sciences and industrial mathematics. Each concentration offers students a unique advanced degree that emphasizes both business and mathematics courses.

"The M.B.S. program develops multidisciplinary students who have up-to-date knowledge in their fields, but who also understand the linkage between mathematics and business," explains Dr. Haydee Herrera, professor of mathematics and director of the program.

In the actuarial sciences concentration, students learn about the financial impact of risk and uncertainty and how to provide assessments of financial security systems. Students learn how to evaluate the likelihood of events and quantify contingent outcomes to minimize losses, both emotional and financial.

Industrial mathematics highlights mathematical modeling, computational techniques, and statistical reasoning. Students will develop skills in abstraction, analysis of structure, and logical thinking as well as expertise in formulating and solving problems. "This concentration provides the knowledge of modeling and numerical techniques fundamental to pursuing a career in industry," Dr. Herrera. "For both concentrations, students should be interested in mathematics and its applications to industry."

SAMPLE COURSES

Actuarial Sciences

- Actuarial Models
- Life Data Analysis
- Times Series and Forecasting

Industrial Mathematics

- Computational Mathematics
- Mathematical Modeling
- Signal Processing

CONTACT

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