The Analytics and Information Management MBA concentration at Rutgers Business School provides the skills to prepare students for careers in the major technical areas of Management Information Systems. In particular, courses are offered in database systems, internet security, data mining, enterprise resource planning, accounting systems, and software engineering. Students are provided hands-on instruction with state-of-the-art software. This concentration is administered by the Management Science and Information Systems Department, but technology related courses in other departments can be used for the concentration.

The concentration introduces statistics as applied to managerial problems, emphasizing conceptual understanding as well as conducting statistical analyses. Students learn the limitations and potential of statistics, gain hands-on experience using Excel, as well as comprehensive packages, such as R or SAS. Students are encouraged to take an analytic view of decision making by formalizing trade-offs, specifying constraints, providing for uncertainty, and performing sensitivity analyses.

Courses of study provide students with an understanding of database technology and its application in managing data resources. Students analyze the conceptual, logical, and physical design of databases.

Companies investing heavily in analytics

- Analytics is the #1 top technology priority for both CIOs and CFOs, according to Gartner
- Nucleus Research recently released a report showing that organizations get $10.66 of value for every $1 invested in analytics
- International Data Corporation (IDC) increased growth forecasts for business analytics at companies. “After three decades, the business analytics market is finally reaching the mainstream,” said IDC analyst Dan Vesset. “There are few growth inhibitors in the foreseeable future.”
- At a recent BI Gartner Summit in London, Gartner announced a 10%+ growth in analytics the last three years, outpacing general IT growth

Corporate Partners

- Alcatel-Lucent Bell Labs
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- Microsoft Research

The state-of-the-art 100 Rock on the Livingston Campus in New Brunswick opened in Fall 2013.
Sampling of Courses

Area 1: Information Technology
Advanced Design and Development of Information Systems
Designs/Analysis of Data Structure and Algorithms
Information Technology in the Digital Era

Area 2: Analytics
Analytics for Business Intelligence
Business Forecasting
Data Analysis & Visualization
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Faculty Excellence & Distinction

Michael Katehakis, a professor in the Department of Management Science and Information Systems, is known for major methodological contributions in several areas of operations research and management sciences.

The Institute for Operations Research and the Management Sciences (INFORMS) presented Katehakis the INFORMS Fellow Award for his fundamental contributions to the theory and practice of operations research in the areas of dynamic programming and data-driven analytics.

Professor Katehakis recently received a $150,000, two-year award from the National Science Foundation, Operations Research program, through the Early-Concept Grants for Exploratory Research – (EAGER) mechanism, which supports “high-risk, exploratory and potentially transformative research.”

Andrzej Ruszczynski, a distinguished professor in the Department of Management Science and Information Systems, is considered a pioneer in the area of stochastic optimization.

The National Science Foundation awarded Professor Ruszczynski a $240,000 grant for his research on a complex mathematical model for projecting risk in a variety of decision-making processes.

Rutgers Business School-Newark and New Brunswick is an integral part of one of the nation’s oldest, largest, and most distinguished institutions of higher learning: Rutgers, The State University of New Jersey – founded in 1766. Rutgers Business School has been accredited since 1941 by AACSB International – the Association to Advance Collegiate Schools of Business – a distinction that represents the hallmark of excellence in management education.