



Management Information Systems Major - Newark

The Field

Nearly all organizations rely on computer and information technology (IT) to conduct business and to operate efficiently. Computer systems analysts work with specific types of computer systems—for example, business, accounting, and financial systems or scientific and engineering systems—that vary with each type of organization.

Analysts consult with an organization's managers and users to define the goals of the system and then design a system to meet those goals. Analysts use techniques such as structured analysis, data modeling, information engineering, mathematical model building, sampling, and a variety of accounting principles to ensure their plans are efficient and complete. They also may prepare cost-benefit and return-on-investment analyses to help management decide whether implementing a proposed technology would be financially feasible.

Analysts are increasingly working with databases, networks, object-oriented programming languages, client-server applications, and multimedia and Internet technology. Prospective students should have an aptitude for computers and quantitatively oriented material.

Career Paths

Graduates can expect to work in both technical and managerial capacities on development of information technology projects for collecting, managing, analyzing, and acting on business data. For jobs in a business environment, employers often seek applicants with at least a bachelor's degree in a business-related field such as management information systems (MIS). Increasingly, employers are seeking individuals who have a master's degree in business administration (MBA) with a concentration in information systems. Technological advances come so rapidly in the computer field that continuous study is necessary to remain competitive.

Compensation

According to the Bureau of Labor Statistics, U.S. Department of Labor, *Occupational Outlook Handbook*, 2019 Edition, Management Analysts, bachelor's degree candidates in information systems management received offers with a median salary of \$85,260.

Key Facts:

- Rutgers Business School ranked #1 in the Northeast for Return on Investment, *Poets & Quants*, 2019
- The MIS major is only offered on the Newark campus
- Constantly updated curriculum prepares students for careers in:
 - Information technology
 - Risk management
 - Technical/quantitative supply chain logistics
 - Operations planning
- Graduates with strong IT skills are highly prized, with demand exceeding supply for the better part of a decade
- The MIS major teaches skills in Information Technology, Data Analysis and Decision Analysis and Modeling

Path to Major

Students must take at least 21 major credits beyond the RBS core curriculum, including 12 credits of the required courses and at least 9 credits of electives.

Required Courses (12 credits)

COURSE#	TITLE	CREDITS
29:623:318	System Analysis & Design	3
29:623:319	Database Management Systems	3
29:623:350	Structure Programming Applications	3
29:623:375	Computer Networking Applications	3

Electives (9 credits)

COURSE#	TITLE	CREDITS
29:623:321	Designing and Creating Websites	3
29:623:335	Data Warehousing & Data Mining	3
29:623:345	Cyber Security	3
29:623:385	Introduction to Enterprise Resource Planning	3
29:623:496	Internship/Cooperative*	AR
29:623:498	MIS Cooperative Education*	6
29:623:499	MIS Independent Study*	AR

*Note: Must have prior approval by RBS Undergraduate Programs Office to register.

*AR: Credits by arrangement.

Visit our website for more information:

<https://www.business.rutgers.edu/undergraduate-newark/management-information-systems>

