

The Bachelor of Science and Bachelor of Arts in Information Systems



Department of Information Systems

College of Computing Sciences

New Jersey Institute of Technology

WHY STUDY INFORMATION SYSTEMS?

Careers in Information Systems - systems analysts, web designers, e-commerce specialists, software engineers, and network and database administrators -- are projected by the U.S. Department of Labor to be the fastest growing professions through 2012. Because computer technology is so essential in the products, services, and systems of our economy, information systems professionals are needed in almost every branch of industry and government. New opportunities develop rapidly as each change or improvement in technology generates new areas of specialization and application. The Internet represents the most transformative development of our time, and Information Systems professionals are actively engaged in the design, development, application and evaluation of numerous web-based systems and applications. To remain competitive in our global economy, companies continue to expand their design and deployment of sophisticated information systems as they build more complex Internet and intranet sites.

WHY STUDY INFORMATION SYSTEMS AT NJIT?

NJIT has a long history of innovation in digital communications. With one of the most computing intensive campuses in the world, NJIT has pioneered in the applications of new technologies as learning tools. The university educates one of the largest groups of information technology students in the nation. Not coincidentally, New Jersey is one of the leading states for computing and high technology businesses and offers the highest median salary in the nation for information systems managers.

If you study information systems at NJIT, you will have state-of-the-art courses in Application Development Tools, Database Design and Application, Multimedia Information Systems, Requirements Analysis and Systems Design, Management Information Systems, Networks, Software Development and Applications, Web Design, E-Commerce, Systems Simulation and Wireless Applications. You learn not only how to design and build software for these applications, but also how to integrate them into corporate and government decision making systems, how to manage them and how to evaluate their effectiveness. You will gain a comprehensive understanding of the role of Information Systems in our high-tech digital and web-based economy,

WHAT DEGREE PROGRAMS ARE AVAILABLE?

Students may choose a bachelor of science in information systems (BSIS) or a bachelor of arts (BAIS). The BSIS provides the student with a solid foundation in the principles of computing and information systems and their applications, as well as the most comprehensive treatment of computers, with considerable breadth and depth in information systems and IT topics, the sciences, mathematics and applied quantitative tools, and supporting interdisciplinary studies. For the student who wishes to have a strong foundation in information systems, but with more opportunity for elective choices and with slightly fewer technical requirements, the Department of Information Systems also offers the BAIS, a joint degree program with Rutgers-Newark. Both degree programs have received prestigious accreditation by the major national professional society in Information Systems.

WHAT SPECIALIZATION TRACKS ARE AVAILABLE?

Both the BAIS and the BSIS offer eight specialization tracks to choose from:

- Databases
- Networks
- Management of Information Systems
- Human Computer Interaction
- Systems Analysis and Design
- Intelligence & Decision Support
- Web Engineering
- Information Systems Security, Auditing and Crisis Response

Each specialization track requires a four-course concentration in courses in the computing sciences, consisting of advanced state-of-the-art courses in information systems, information

technology and computer science. In addition, each Information Systems major completes a five-course sequence in the student's choice of an area where information systems are applied, such as management, e-commerce, finance, global business, medicine, and media. For more details, see the course catalog. catalog.njit.edu/undergraduate/programs/informationssystem.php.

WHERE ARE THE PROGRAMS OFFERED?

The BSIS and BSIS are offered on NJIT's Newark Campus in the College of Computing Sciences. The degree programs in information systems are also offered wholly on line through our e-Learning program. adultlearner.njit.edu/locations/onlinelearning.php

ARE THERE OPPORTUNITIES FOR RESEARCH EXPERIENCE?

Undergraduates can work alongside faculty in cutting edge research in such areas as the SmartCampus project, emergency management information systems, e-customer relations, and multimedia group collaboration.

ARE THERE OPPORTUNITIES FOR REAL-WORLD EXPERIENCE?

The College of Computing Science's Capstone Program matches interdisciplinary teams of senior students with clients from industry, government and university programs to develop customized software and database applications, to design and test devices, or to analyze and diagnose a variety of business problems. Clients have included large organizations such as Johnson and Johnson, IMS Health, CIT, PSE&G and Honeywell, as well as smaller high-tech companies like Nextech Group, Morpholytics, and Cyberextruder.

FOR FURTHER INFORMATION, CONTACT:

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TO APPLY:

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