



New Jersey Institute of Technology
A Public Research University

The Bachelor of Science in
Information Technology

An interdisciplinary program of
New Jersey Institute of Technology

Apply the power
of computing and
telecommunications
to your own field of
interest and build a
21st century career

T*echnology and science are transforming our world, changing the way we do business, the way we learn, the way we communicate, and even the way we entertain ourselves. Success in any field – law, medicine, business, education, entertainment, finance and investment – requires a command of technology. NJIT's B.S. in Information Technology draws on the university's rich resources in engineering, computer science, architecture, management and the sciences to prepare students for a career in integration, design and management of computing and telecommunication resources and services in such diverse fields as bioengineering, e-commerce, chemical processing, multimedia and design, network applications, software development and telecommunications.*

Questions & Answers



WHY STUDY INFORMATION TECHNOLOGY?

As the convergence of telecommunications and computing, information technology is the foundation of the 21st century economy. The bureau of labor statistics ranks the profession as the number one fastest growing profession over the next ten years. The B.S. in Information Technology offers a multidisciplinary approach, allowing students to choose a specific area to apply computing and telecommunications technologies. The program balances emphasis on software and hardware applications with an array of concentrations in many fields.

WHY STUDY INFORMATION TECHNOLOGY AT NJIT?

As America's most wired public university, NJIT offers one of the most computing intensive campuses in the nation. Information technology is an intrinsic part of the campus culture, and every department, from architecture to transportation, actively works to advance the state of the art in computing applications.

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In addition, New Jersey offers many career opportunities, with the nation's fourth largest concentration of jobs in data processing and information services and the eighth largest in high tech employment, as well as the second highest wages in the country for technology workers.



WHAT WILL I LEARN?

The four years of the program have been carefully structured to meet the following goals:

YEAR 1: breadth and depth of information technology, core courses include:

IT 101: Introduction to Information Technology
CIS 113: Introduction to Computer Science I
CIS 114: Introduction to Computer Science II

YEAR 2: Tools and Applications of Information Technology, core courses include:

IT 201: CAD/CAM Concepts and Processes
IT 202: Internet and Applications

YEAR 3: Software and Hardware Infrastructure of Information Technology, core courses include:

CIS 431: Database System Design and Management
IT 420: Computer Systems and Networks

YEAR 4: Management and Synthesis of Information Technology, core courses include:

Mgmt 480: Managing in a Technological Environment
IT 491: Information Technology Capstone Project

WHAT AREAS OF CONCENTRATION ARE AVAILABLE?

The B.S. in Information Technology allows you to choose from a wide variety of specializations:

- Applied Mathematics
- Applied Physics
- Bioengineering
- Bioinformatics
- Chemical Processing
- Computer-Aided Engineering Design
- E-Commerce Applications
- E-Commerce Technology
- Graphics and Design
- History
- Information Technology Education

- Infrastructure Systems
- Management of Information Systems
- Multimedia
- Network Applications
- Robotics and Automation
- Society and Technology
- Software Development and Management
- Statistics
- Telecommunications

For more information about what you'll learn in each of the concentrations, visit it.njit.edu/.

WHAT OTHER WAYS ARE THERE TO SHAPE MY ACADEMIC PROGRAM?

NJIT offers a variety of ways to help you design an educational program that suits your career goals and interests:

■ Academic Minors

Students can tailor their course of study with one of more than two dozen academic minors that broaden their exposure and increase competence in an additional subject area.

www.njit.edu/catalog/undergraduate/00Fall/28.html

■ Collaborative Programs with Rutgers-Newark

NJIT students may enrich their educational experience by enrolling in courses at nearby Rutgers University-Newark in such disciplines as art, music, languages, biological sciences, and geology.

rutgers-newark.rutgers.edu/

■ Albert Dorman Honors College

Students who demonstrated superior levels of achievement in high school can continue on a challenging leadership track at NJIT's Albert Dorman Honors College. One of the nation's leaders in technologically oriented honors education, the Honors College offers qualified students a truly unique academic experience.

honors.njit.edu

■ **Special Degree Programs**

Interested students may opt for double majors (majors in two areas of study); dual BS degrees (two bachelor's degrees earned simultaneously); or an accelerated BS/MS degree program (graduate credits earned during undergraduate studies).
www.njit.edu/catalog/undergraduate/00Fall/105.html

■ **Cooperative Education**

Many students elect for one or more semesters of Cooperative Education, earning academic credit and salary while gaining real-world experience at area businesses.
www.njit.edu/CDS/StudentServices/Coop.htm

■ **Research Opportunities**

Undergraduates have access to NJIT's specialized engineering and computing laboratories in such areas as microelectronics, manufacturing, geoenvironmental engineering, particle technology, and biomedical engineering. Faculty in the university's major research centers encourage undergraduate participation on research teams.
www.njit.edu/research

■ **'Distance' learning**

Many of NJIT's undergraduate courses are available in distance learning formats, either via the Internet or on videotape. Many on-campus students find it convenient to take one or more classes in this way, allowing them to "attend" when their schedule allows.
www.njit.edu/DL/

FOR FURTHER INFORMATION

Prof. Fadi Deek: (973) 596-2997, email: it@njit.edu
Office of University Admissions (973) 596-3300
www.njit.edu/Admissions/

NJIT does not discriminate on the basis of sex, sexual orientation, race, age, religion, national or ethnic origin, veteran's status or handicap in its educational programs, activities or employment policies. Campus facilities are accessible to the disabled.