Supporting the Northwestern University Community

Through:
  People
  Technology Leadership
  Service Excellence
  Shared Vision

Using technology to:
  Deliver Knowledge
  Enhance the Student Experience
  Support Faculty Research
  Foster Collaboration
  Empower the Northwestern Community
  Advance the Reputation of Northwestern
"We have built a culture of collaboration. Through teamwork with the faculty, students and staff, we provide the technology resources to achieve the mission of the University."

Our number one priority is to provide the highest quality information technology services to the Northwestern University community. We define highest quality services as the convergence of our people, networks, infrastructure, equipment, and vision meeting the technology needs and future requirements for all that occurs at Northwestern. In 2001, we continued to deliver on our number one priority. We did this during the aftermath of September 11 as well as throughout the year. Our security continued to shield our data from the increasing number of probes, viruses and worms. Infrastructure capacity planning made it possible to increase the amount of steady state e-mail messages and cope with surges associated with major events. Our telephone systems continued to deliver dial tone. Students, faculty and staff were able to keep up with events because our systems delivered real-time news reports. Faculty participated in national and international conferences using videoconferencing, when unable to travel. And critical interfaces with government agencies and news organizations performed flawlessly.

Northwestern University Information Technology has become a catalyst for change throughout Northwestern. Some of the changes are obvious; others are more subtle. Most of our students probably do not know that it was once necessary to wait in long lines to register for classes. Faculty do remember the complicated and time-consuming process of making slides for presentations as opposed to the current technology allowing one to bring live or prerecorded information easily into a class presentation. Software and systems allow University staff to support faculty research, manage admissions, and interact with incoming students and alumni in new and more efficient and effective ways.

The evolution of technology at Northwestern is changing the way faculty teach, the way students gather and use information, and the way Northwestern collaborates with other academic and research institutions. Now, faculty can easily integrate archived video into their teaching. Course curricula can be updated to include current events through the Northwestern University Course Management System. Faculty researchers are using computer clusters that allow them to analyze data at lower costs and at speeds only supercomputers could achieve just a few years ago.

"We are now leveraging the infrastructure that has been installed over the past five years. We are adding major services—such as digital video and the exchange of high-volume data with other institutions—without having to add costly embedded infrastructure."

The Information Technology Division of Northwestern is among several hub organizations within the Northwestern environment that interact with every department and group. We have established a collaborative environment within the Northwestern community to encourage the sharing of information and
expertise. We have built and implemented the resources to support a demand-driven culture. Our users are the owners of the technology we provide and they use it to achieve their respective goals. At the same time, our Division is there for them to develop or maintain or adapt the technology. Our approach to being the best has fostered this very successful model.

Northwestern University’s Information Technology Division strives to deliver the best possible technology and services. We carefully target technology niches in which we can lead. Most notable among these niches are our core network and our high-speed access to global networks. Our University is viewed as the premier source for advanced switching and network services by universities, governments, and leading-edge businesses around the world. Our leadership in selected areas is an important component of advancing the reputation of Northwestern University.

“We have assembled a dedicated and competent team.”

Because of Northwestern’s continued commitment to excellence, we have developed a team of technology experts who are dedicated to supporting and collaborating with faculty, students, staff and the University’s partners to meet tactical needs and strategic goals. Our team delivers quality technology cost-effectively and focuses on continuous service improvement. I am proud to be a member of the Information Technology team.

Inherent in the very nature of information technology is that it never stops evolving and always challenges the status quo. Our performance in 2001 confirms that we are building on a very strong foundation of people and infrastructure. As a catalyst for change, we are eager to continue collaborating and working with the entire Northwestern University community. By using tomorrow’s technology as a platform, our community delivers the highest quality educational services to students, develops leading research programs, and provides the administrative infrastructure to improve the business functions of the University.

I am grateful to our exceptional Information Technology professionals for their outstanding work for the University and to the trustee, faculty, staff and student advisory boards that serve us so well.

Morteza A. Rahimi,
Vice President,
Information Technology and Chief Technology Officer
**Mission Statement**

The Information Technology Division is a service arm of Northwestern University dedicated to advancing the stature, influence and competitiveness of the University through the effective deployment of information technology in support of teaching, research and administration.

It continually strives to innovate and improve the quality of services in a fiscally responsible manner. The Information Technology Division participates in collaborative efforts with other institutions and business enterprises on opportunities of mutual benefit in support of our goals.

Each member of the Information Technology Division will respect, anticipate and respond to clients' needs. In return, clients are asked to develop skills necessary to use information systems and commit their resources along with ours to do the job right.

The Information Technology Division respects and values the contributions of each of its employees and provides them with opportunities for professional growth, job satisfaction and leadership.

In return, employees are asked to support the organization's goals, be team players with their colleagues throughout the University and be dedicated to satisfying the needs and expectations of our clients.

**Goals**

Advance Northwestern University through Technology by:
- Partnership with Academic and Administrative Units
- Technical and Service Excellence
- Reliable and Secure Systems
- Commitment to Staff Development
- Cost-Effective Use of Resources
- Partnerships with Corporate and Government Entities
“We collaborate closely with the faculty to ensure they have the technology resources available to achieve their research goals and to enhance the educational experience for their students.”

“The amount of computing power required by faculty to model complex interactions and the ever-increasing amount of data transferred among academics is growing exponentially. We have an infrastructure in place to handle it today.”

The Information Technology Division supports and collaborates with Northwestern faculty to increase the use of information technology for instruction and research.

Services to faculty include:

◆ Smart Classrooms
◆ Multimedia course-related materials
◆ Web technologies for faculty-student communication
◆ Electronic conferencing
◆ Video for research, instruction, and collaborative projects

Support of High-Performance Computing with Clusters

Northwestern University Information Technology Division has pioneered the use of clusters. Clusters are large numbers of personal computers interlinked through the Northwestern network. When linked through the high-speed network, the personal computers are capable of achieving processing speeds equal to expensive supercomputers. As an example, the Chemistry Department is using cluster technology to model electron behavior in certain molecules. By employing this technology, the Chemistry Department achieves the equivalent output of a much faster machine at a fraction of the cost.

Course Management System

The Course Management System continues to grow and currently supports more than 600 courses per quarter. To date, over 2,500 classes have used Northwestern’s Course Management System. The system allows faculty to share online materials and manage class Web sites, and serves as a faculty-to-student and student-to-student communication vehicle.

The number of classes supported by the Course Management System increased 42 percent in 2001 over 2000.

Collaborations with Museums and Cultural Institutions

Northwestern University Information Technology Division continues to expand its partnerships with museums and cultural institutions. During the year, partnerships with these institutions have resulted in the following initiatives:

CyberSpace Gallery

A CyberSpace Gallery was developed in conjunction with the Adler Planetarium in Chicago. This gallery is the world’s first completely digital and programmable museum exhibition. Northwestern used its extensive knowledge base to introduce computer-based astronomy projects to the Adler.
Pictures of Music

Information Technology and a team of student interns, in collaboration with the Mary and Leigh Block Museum of Art, created the Curatorial Internship Program. For this year’s student intern project, graphical notation, a unique means of musical composition, was integrated into an interactive multimedia Web site, “Pictures of Music.” The Web site investigates the dynamic intersection among the notation, the music, the composer, and the performer. This is an outstanding example of Northwestern University Information Technology intersecting the arts, education, and outside partners.

Webcasting

Northwestern University Information Technology Division broadcasts high-quality digital video content of on-campus events for distribution to viewers’ personal computers not only throughout the University, but also to domestic and international audiences. Northwestern collaborates with video providers throughout the world to digitize video. The ability to broadcast high-quality video to Northwestern University classrooms and to viewers’ desktop computers enables the University to extend its reach in ways that improve teaching and research as well as to share information throughout the University community. Six all-campus Webcasts were produced, including programs on the Human Genome Project, the McCain-Feingold Town Hall Meeting for Campaign Finance Reform, and the Venture Capital Investing Seminar.

The largest single video multicast in history to date was routed through the Northwestern network. A live CNN video feed was broadcast to the Networld/Interop trade show in Atlanta.

A National Science Foundation advisory board was hosted at Northwestern. Information Technology coordinated the Webcast of this meeting to remote sites located in Washington D.C., Palo Alto, Princeton and Seattle. The National Science Foundation is an independent U.S. Government agency responsible for promoting science and engineering.
Videoconferencing Services
New videoconferencing capabilities and technology make it possible for faculty to interact with colleagues at other research universities and government laboratories. The high quality of Northwestern's network makes this technology a viable alternative to off-site travel. The videoconferencing services also provide efficient on-campus and between-campus meetings.

Faculty Support Center
In partnership with the University Library, Information Technology opened a faculty support center in the Library to assist faculty in the use of new and existing technology for teaching and research. This center provides faculty with the opportunity to work closely with Information Technology and Library staff in a hands-on environment using technologies such as visualization and multimedia.

Smart Classrooms
Northwestern University Information Technology Division built six new Smart Classrooms and upgraded seven existing Smart Classrooms in collaboration with the Provost Classroom Committee. With these additions and upgrades, there are currently 28 classrooms. Smart Classrooms are lecture halls and meeting rooms equipped with easy-to-use technology interfaces that enable faculty to project a networked computer, laptop or video image, allow videotaping of presentations, and provide digital videoconferencing. These Smart Classrooms are in high demand and are a key factor in the evolution of the use of technology in a learning environment. Northwestern University Information Technology Division will continue to work closely with the Classroom Committee as they consider the need for additional Smart Classrooms or upgrades of existing classrooms.
“Students are why we are here. The breadth of Northwestern's technology services and support enhances the students' learning experience. This experience is no longer limited to our campuses. Now students can easily communicate and collaborate across the world.”

“Northwestern University Information Technology creates a continually developing electronic culture for its community of students.”

Freshman Seminars Online Pilot Program
Northwestern University Information Technology created over 70 special Web sites for freshmen prior to their arrival on campus. This project was developed in conjunction with the Weinberg College of Arts and Sciences to build a sense of identity and community with the University even before the student arrives on campus. Each site gives incoming students enrolled in a particular seminar a preview of the content of that seminar. These sites offer opportunities for students to communicate with classmates through e-mail, bulletin boards, and brief self-introductions. The sites point incoming students to important Web resources that support writing, a major thrust of the Freshman Seminar Program. Several sites also contain subject-specific links to Web resources developed by professional staff in the University Library.

Freshman CD-ROM
For the second year, the “Getting Connected” interactive CD-ROM was delivered to Northwestern's 2,000 incoming freshmen and transfer students. This CD allows students to become more comfortable with the Northwestern environment before coming to campus. In addition, the CD educates incoming students on the extensive ways technology is used to enhance the educational and cultural aspects of University life.
Northwestern University Information Technology received two awards at the 2001 SIGUCCS conference for video and promotional materials for this CD-ROM.

Wireless Networking
Wireless networks have been introduced in various locations throughout the University. This extension of the University's wired data network has been installed in the student union, and specific common areas in Northwestern's professional schools (Medical, Law, Kellogg School of Management). By continually extending the wired network to wireless networks, users will be able to access information from virtually anywhere on both the Evanston and Chicago campuses.
Residential Networking
Northwestern University Information Technology's initiative to install high-speed (Switched-10 Ethernet) access to every University residence room is acclaimed nationally. Other colleges and universities have adapted our successful model. Northwestern's residential networking program supports full high-speed Internet connectivity and video to all students living on campus. Volunteer, live-in Residential Networking Consultants are also available to assist students with their computing and networking needs.

Student Enterprise System
The Student Enterprise System is Northwestern's largest-scale administrative project and provides a wide range of services to students, parents, and faculty as well as serving the administrative components. This system was first introduced in 1998 and additional modules were added throughout 1999. This effort combined a number of stand-alone, legacy programs into a single integrated system. The Student Enterprise System allows students to register for classes, view their class schedule, get an unofficial transcript and grades, update address and telephone information, and view their financial accounts. In the coming academic year, this system will incorporate Academic Advisement and Degree Audit functions allowing students to review their status for degree requirements as well as running “what-if” scenarios on course choices. These online student services are available 24 hours a day from any location on any computer with a standard browser and Internet access.

The ultimate goal of the Student Enterprise System is to change the way Northwestern serves its students and faculty through the effective integration of technology and the provision of immediate decision support. The ability to move comprehensive information accurately and faster, and have it available anytime, anywhere, is a significant competitive advantage.
“The University is a complex organization. Hundreds, if not thousands, of systems must seamlessly interact. We continually upgrade the systems to facilitate the use of technology by faculty, students and staff in order that they spend less time administrating, and more time teaching, researching or learning.”

“95 percent of all computer-related problems were solved at the help-desk level.”

Human Resource Information System
The focus for the year was on consolidating system functionality, including enhancing last year’s salary administration and government reporting modules. During the year, Northwestern University Information Technology extended the functionality of the journal entry and funding functions. A key part of the effort is to shift data input to the end user; as a result, output is more timely and accurate. Additionally, Northwestern University Information Technology assisted the Human Resources Department in the development of the requirements for a new electronic time-keeping system.

Internal Operations System
Northwestern University Information Technology began a collaborative project to define, select, and implement a new integrated system that will support Information Technology’s services, procurement, billing, record-keeping and help-desk functions. For Information Technology’s internal customers, the new system will also provide online ordering of services, real-time tracking of order status, and timely and accurate billing.

Central Server Support
Northwestern University Information Technology supported the growth of the University’s distributed computing environment by centrally configuring, installing, and maintaining 134 servers. These servers include the platforms for e-mail, the Human Resource Information System, the Student Enterprise System, the Alumni and Development System and the University Financial System, as well as a supercomputer to support other initiatives. The better than 99 percent up-time experienced in 2001 demonstrates the dedication of the staff to providing true 24 by 7 access to the system.

An IBM MP2003 mainframe was replaced with a smaller, less costly MP3000 machine. Significant gains in automating this environment were also achieved with a robotic tape backup silo, allowing operations on the Saturday shift to be run unmanned.

A push to reduce centralized printing by 30 percent resulted in significant and ongoing cost savings.

Alumni and Development System
Gift processing support and biographic and demographic information support were added to the Alumni and Development System in 2001 allowing for improved prospect tracking.
“Simply speaking, Northwestern has the best network in the world. Period.”

The technology installed within the core of the Northwestern network has evolved to meet the changing needs of the campus community as well as the changes in technology throughout industry. On campus, this infrastructure provides the ability for all faculty, students and staff to interact efficiently, even with very large volumes of data, with partner organizations around the world. Northwestern’s core backbone network is comprised of a Gigabit Ethernet mesh, providing 2 Gigabits per second of bandwidth out of each main routing node.

This infrastructure provides Northwestern the ability to:

Participate and partner with entities such as:
- Metropolitan Research and Education Network (MREN)
- very high-speed Backbone Network Service (vBNS)
- Internet2 Abilene Network

Interface directly with:
- Canadian Network for the Advancement of Research, Industry, and Education (CANARIE)
- Asia Pacific Advanced Network (APAN)
- National computer network for higher education in the Netherlands (SURFnet)

Partner with consortiums and educational networks including:
- Illinois Wired/Wireless Infrastructure for Research and Education (iWire)
- Advanced Research and Education Network (AREN)
- The North Suburban Higher Education Consortium (NSHEC)
- Illinois Century Network (ICN)
“Partnerships provide for the sharing of resources. Through these partnerships, Northwestern is able to leverage its capabilities and improve its reputation worldwide.”

“Although the word ‘synergy’ is overused, it really is what happens through Northwestern University’s collaborative relationships. By working together and exchanging technical expertise and infrastructure, what is achieved is much more than any single partner could do by itself. Even more, it keeps Northwestern at the top of its game.”

Northwestern University Information Technology partners with local, state, national and international government agencies; corporations; foundations and other academic institutions to explore emerging technologies. These include:

**Government Agencies In:**
- City of Chicago
- City of Evanston
- State of Illinois
- Canada
- Germany
- Japan
- Republic of Korea
- Netherlands
- Singapore
- United Kingdom
- United States

**Corporations:**
- Avaya
- Cisco Systems, Inc.
- IBM Corporation
- Nortel Networks
- SBC Ameritech
- Sun Microsystems
- Teleglobe Communications, Inc.

**Collaborative Relationships:**
- APAN - The Asia Pacific Advanced Network
- AREN - The Advanced Research and Education Network
- Argonne National Laboratory - Electronic and Computing Technologies Division, Mathematics and Computer Science Division
- CANARIE - The Canadian Network for the Advancement of Research, Industry, and Education
- CERN - The European Organization for Nuclear Research (High Energy Physics)
- EVL - The Electronic Visualization Laboratory at the University of Illinois at Chicago
- Fermi National Accelerator Laboratory
- GiDVN - Global Internet Digital Video Network
- iGrid - An International Grid for global community networking
- International Internet Research Centers
- iWire - Illinois Wired/Wireless Infrastructure for Education and Research
- MERIT - Michigan State-wide Network
- MREN - Metropolitan Research and Education Network
- NCSA/PACI - National Computational Science Alliance
- NGI/NGIX - Next Generation Internet Initiative
- NLANR - National Laboratory for Advanced Networking Research
- Nortel Networks
- OARNet - Ohio Academic Resource Network
- QUILT - Advanced Regional Networking Organization
PARTNERSHIPS AND COLLABORATIONS

SARA - Dutch national expertise center in the field of High-Performance Computing and High-Performance Networking
STAR TAP - Science, Technology and Research Transit Access Point Project (NSF)
SURFnet - A national computer network for higher education in the Netherlands
Telemetric - The Center for Telematics and Information Technology at University of Twente
TeraGrid - Multi-year effort to build and deploy world’s largest, fastest infrastructure for open scientific research. Funded by NSF
UCAID - University Consortium for Advanced Internet Development
University of Chicago
University of Illinois at Chicago
vBNS - Very high-speed Backbone Network Service
WTCM - Science and Technology research center in Amsterdam

The International Center for Advanced Internet Research
Northwestern University Information Technology, in partnership with a number of major corporations and government entities, operates the International Center for Advanced Internet Research (iCAIR). Soon to enter its fourth year of operation, iCAIR accelerates leading-edge innovation and enhances digital global communications through advanced Internet technologies. The partnership undertakes projects in four key areas: (1) Next Generation Internet applications, (2) Advanced middleware and metasystems, (3) Large-scale advanced infrastructure, and (4) Policy.

The Collaboratory Project
Northwestern University Information Technology initiated The Collaboratory Project. This project provides project consulting, training, technical advice, and Web-based resources and services to K-12 teachers and their students by applying Internet technology to education. The Collaboratory is an easy-to-use, Web-based collaborative environment that teachers use to develop project-based activities that are benchmarked to Illinois Learning Standards and Goals. Funded by a grant from the Illinois State Board of Education and SBC Ameritech, The Collaboratory Project provides these services to educational, cultural, and nonprofit organizations. The project is housed on the Evanston campus and is easily available to the students and their teachers anywhere in the state.
COMMITTEES

Trustee Oversight Committee
William White, Chair
Charles W. Douglas
Timothy K. Krauskopf
Jerry Pearlman
Benjamin Slivka
Sona Wang

Information Technology Coordinating Council
Structure
The Vice President and Chief Technology Officer appoints the members. The Associate Vice President and Deputy Chief Information Officer serves as the chair. The chair may appoint ad hoc committees as appropriate.

Purpose
Advises the Vice President and Chief Technology Officer on information technology related issues and shares information to encourage collaboration between schools and departments to foster effective use and deployment of information technology resources and services.

Member Roster
Stuart Baker, Webmaster, Library Management Systems, University Library
Michael Besancon, Associate Dean Administration & Planning, The Robert R. McCormick School of Engineering and Applied Science
Michael Dacey, Senior Associate Dean Administration, Weinberg College of Arts and Sciences
Mary Dedinsky, Associate Dean, Medill School of Journalism
Rebecca D'ixon, Associate Provost, University Enrollment
Sheila Driscoll, Director of Business & Finance, Student Affairs
Cathy Grimsted, Associate Dean Finance & Technology, Kellogg Graduate School of Management
William Hayward, Director of Analytical Studies, Administration & Planning
David Johnson, Associate Vice President Research Administration, Office of Research
Rene Machado, Associate Dean Administration & Finance, School of Music
Gaye Markov, Assistant Dean, School of Speech
George Mcculloch, Director Technologies & Systems, Office of Development
Betty McPhilimy, Director of Auditing, Auditing Department
Guy Miller, Associate Vice President, Human Resources
Jeff Miller, Senior Executive Associate Dean, Medical School
Robert O'Toole, Technical Support Consultant, School of Continuing Studies
Ruth Rengold, Director of Computing, Weinberg College of Arts and Sciences
Staci Roberts, Director of Web Communications, University Relations
Christopher Simoni, Librarian, Law Library

Ex Officio
Morteza Rahimi, Vice President, Information Technology and Chief Technology Officer
Patricia Todus, Associate Vice President and Deputy Chief Information Officer

Ingrid Stafford, Associate Vice President, Office of the Controller
Todd Van Neck, Assistant Director Budget Planning, Budget Office
James L. Webb, Information Technology Director, School of Education and Social Policy
Alan Wolff, Manager Information Systems, University Enrollment
Ken Woo, Director Law School Computing, Law School
John Wood, Director, Information Management Group, Office of Research
**University Committee on Information Technology**

**Structure**
The members and the chair of the University Committee on Information Technology are appointed by the President. The Vice President and Chief Technology Officer serves as an ex officio member of the committee. Ad hoc subcommittees are appointed by the chair, in consultation with the Vice President and Chief Technology Officer, to address specific issues identified by the University Committee on Information Technology. The University Committee on Information Technology is a faculty advisory committee to the Vice President and Chief Technology Officer. Members of University Committee on Information Technology and its subcommittees shall represent the overall University interests.

**Purpose**
Advises the Vice President and Chief Technology Officer on the deployment of information technology to support the academic programs of the University including the use of computer systems, applications, and networks.

**Member Roster**
- Jim Schwoch, Chair, Associate Professor, Speech Communication Studies
- David Channin M.D., Assistant Professor, Radiology
- Ed Colgate, Associate Professor, The Robert R. McCormick School of Engineering and Applied Science
- Rich Gordon, Associate Professor, Medill School of Journalism
- Jay Grossman, Associate Professor, Weinberg College of Arts and Sciences
- Maud Hickey, Assistant Professor, School of Music
- Jim Houk, Professor, The Robert R. McCormick School of Engineering and Applied Science
- Paul Loach, Professor, Weinberg College of Arts and Sciences
- Robert McDonald, E. P. Nenmers Distinguished Professor, Kellogg Graduate School of Management
- Valerie Taylor, Associate Professor, The Robert R. McCormick School of Engineering and Applied Science
- David Tolchinsky, Assistant Professor, School of Speech
- David Uttal, Associate Professor, Weinberg College of Arts and Sciences
- Ex Officio
  - Morteza Rahimi, Vice President, Information Technology and Chief Technology Officer
  - Gary Greenberg, Executive Director, Teaching and Research Initiatives
  - David Bishop, University Librarian, University Library
  - Stephen Fisher, Associate Provost for Undergraduate Education, Provost’s Office

**Chief Information Officer Round Table**

**Structure**
The Vice President and Chief Technology Officer appoints the members.

**Purpose**
Facilitates discussion on information technology operational issues in schools and fosters an exchange of information to improve the use of Information Technology throughout the University.

**Member Roster**
- Cathy Grimsted, Director of Finance & Planning, Kellogg Graduate School of Management
- Jonathan Lewis, Director MIS, Medical School
- George M. McCulloch, Director Technologies & Systems, Office of Development
- Ruth Rengold, Director of Computing, Weinberg College of Arts and Sciences
- Christopher Simoni, Librarian, Law Library
- James Webb, Director Information Technology, School of Education and Social Policy
- Alan Wolff, Manager Information Systems, University Enrollment
- Ken Woo, Director Law School Computing, Law School
COMMITTEES

Ex Officio
Morteza Rahimi, Vice President, Information Technology and
Chief Technology Officer
Patricia Todus, Associate Vice President and Deputy Chief Information Officer

Information Technology
Rates and Services Advisory Committee

Structure
The Vice President and Chief Technology Officer appoints the members and the chair in consultation with the Provost and Senior Vice President of Business and Finance. The chairperson may appoint ad hoc committees to deal with specific issues as appropriate.

Purpose
Advises the Vice President and Chief Technology Officer by reviewing:
- Information technology telecommunications service plans
- Recharge rates of telecommunications services
- Practices at other universities
- Pricing methodology and recommendations
- Marketplace rates for various telecommunication services

Member Roster
Michael Altman, Associate Dean, Medical School
Prith Banerjee, Walter E. Murphy Professor, The Robert R. McCormick School of Engineering and Applied Science
Coleen Coleman, Associate Dean, School of Education and Social Policy
Qung W. Go, Accenture
Jerry Goldman, Professor, Weinberg College of Arts and Sciences
Shane Greenstein, Associate Professor, Kellogg Graduate School of Management
Cathy Grimsted, Director of Finance & Planning, Kellogg Graduate School of Management
David Johnson, Associate Vice President, Office of Research
Amy Kovalan, Associate Dean, Administration & Finance, Law School
Garth Miller, Director of Dorms & Commons Services, Dorms & Commons Administration
Jeffrey C. Miller, Associate Dean, Medical School
Leon Moses, Professor, Weinberg College of Arts and Sciences
Prashant Velageleti, Student Technology Director, Associated Student Government
Adair Waldenberg, Associate Dean, Business & Finance, Weinberg College of Arts and Sciences

Ex Officio
Morteza Rahimi, Vice President, Information Technology and Chief Technology Officer
Eugene Sunshine, Senior Vice President, Business & Finance
Patricia Todus, Associate Vice President and Deputy Chief Information Officer
James Elsass, Associate Vice President, Office of Budget Planning
E-mail usage continues to grow. Nearly all members of the Northwestern University community use e-mail routinely. In 2001, the number of e-mail accounts and messages grew 19% and 36%, respectively. The number of e-mail messages averaged more than one million messages per day.

While the number of voice lines declined 3%, the number of voice calls increased 20%.
WEB SITES MENTIONED IN THIS REPORT

The following sites may be accessed through www.it.northwestern.edu

2East
www.2east.northwestern.edu

Academic Technologies
www.at.northwestern.edu

ASG/Northwestern University Information Technology Advisory Committee
www.it.northwestern.edu/committees/asgit.html

Collaboratory Project
collaboratory.nunet.net

Computer Assisted Electronic Student Access
www.northwestern.edu/caesar/

Course Management Systems
aboutblackboard.northwestern.edu

CyberSpace Gallery
www.adlerplanetarium.org/new/cyberspace.html

Financial Systems
www.northwestern.edu/finsys/

Human Resource Information System
www.northwestern.edu/hr/hris/

International Center for Advanced Internet Research
www.icair.org

Northwestern University Information Technology Computing Services
www.it.northwestern.edu/itcs.html

Northwestern University Information Technology Services
www.it.northwestern.edu/services/

Northwestern University Information Technology Telecommunications & Network Services
www.it.northwestern.edu/telecom.html

Pictures of Music
www.blockmuseum.northwestern.edu/picturesofmusic/

Residential Networking Program
www.resnet.northwestern.edu

Smart Classrooms
www.at.northwestern.edu/ctg/classrooms/

Student Enterprise System
www.it.northwestern.edu/SES/

Videoconferencing
www.at.northwestern.edu/ctg/videoconf/

WCAS Chemistry Department
www.chem.northwestern.edu

Webcasting
www.northwestern.edu/webcasting/

Wireless Networking
www.tss.northwestern.edu/wireless/
Northwestern University
Information Technology Leadership
Morteza Rahimi - Vice President, Information Technology and Chief Technology Officer
Patricia Todus - Associate Vice President and Deputy Chief Information Officer
Gary Greenberg - Executive Director, Teaching & Research Initiatives
Steven Beck - Director, Administration & Finance
Thomas Board - Director, Technology Support Services
Betty Brugger - Director, Management Systems
David Carr - Director, Telecommunications & Network Services
Joel Mambretti - Director, International Center for Advanced Internet Research
Dana Nielsen - Director, Computing Services
Robert Taylor - Director, Academic Technologies