BROOKLYN COLLEGE INFORMATION TECHNOLOGY ASSESSMENT PLAN 2007

ADOPTED BY

BROOKLYN COLLEGE TEACHING, LEARNING, TECHNOLOGY ROUNDTABLE

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TLTR IT PLAN SUBCOMMITTEE:

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STRATEGIC GOALS FOR INFORMATION TECHNOLOGY AT BROOKLYN COLLEGE:

The **Brooklyn College Strategic Plan 2005-2010** celebrates the College's accomplishments and investments in Information Technology and acknowledges our position as a CUNY leader in IT investments and services. It sets a clear technology agenda that has as its priority campus secure access to content and services for instruction, information delivery, online services, and a comprehensive public-access computing infrastructure, and incorporates participation in building and implementing CUNY-wide systems and applications. It clearly articulates the role of integrated technology services aligned with budgetary resources as a solid foundation for advancing the strategic plan.

In the Strategic Plan, two major IT goals are promulgated:

- 1. Develop and apply technology initiatives that respond to the College's needs and aspirations:
 - Charge the Teaching and Learning Technology Roundtable (TLTR) to devise and monitor a College-wide technology plan, with measurable outcomes, that sets campus priorities and establishes comprehensive, shared practices.
 - Ensure that technology-related programs and services are coordinated across campus and that realistic timelines are established for their implementation.
 - Invest in infrastructure and tools "smart" lecture halls and flexible classrooms, portable video presentation carts, portable laptop labs required by faculty who use technology in instruction.
 - Complete the migration from an all-in-one College Web site to (a) an external Web page with content designed to introduce the College and its programs to the wider world and (b) an information-and-services portal (BC WebCentral) attentive to the everyday needs of the College community.

- 2. Promote the further development of instructional technology programs and the infrastructure that supports it:
 - Encourage and support faculty in evaluating, adopting, and implementing new technologies that enhance learning.
 - Expand electronic library services to the extent possible: enlarge online interactive reference service; strengthen the collection of digital resources; implement electronic course reserves; provide off-campus access, robust and easy to use, to electronic resources.
 - Expand information technology operations staffing to assure better administrative and technical support to the College's evening and weekend operations and to cope with the demands presented by online learning.
 - Adopt and follow a schedule for replacing computers for faculty and staff offices, and update hardware and networks.
 - Upgrade Internet connectivity to meet accelerating demand for Internet bandwidth; upgrade and expand public-access, instructional, office, and research computer systems; expand the network of secure wireless networking and classroom connectivity.
 - Maintain an advisory committee that reviews and offers advice on ways to assure the security of the campus computer network without compromising the academic mission.

LEADING TECHNOLOGY ORGANIZATIONS AT BROOKLYN COLLEGE:

In articulating the College's strategic IT goals, the Strategic Plan identifies four major organizations that either determine IT policy or deliver critical IT services:

- 1. The Teaching and Learning Technology Roundtable (TLTR) serves as a clearinghouse for information and a vehicle for communication among the various groups concerned with technology at the college. It is the body where suggested policy statements are brought for discussion and action. The TLTR discusses policy and process concerning the expenditure of technology fees. TLTR was created partly to address the confusion that existed about the roles and powers of various committees throughout the college that concerned themselves with one or another aspect of technology. TLTR is an umbrella organization that brings together all groups and individual who are stakeholders in technology at the college. It is a common forum for all these voices and its policies arise from consensus.
- 2. Center for Teaching (CFT) was established in 1996. Its mission is to provide the faculty with opportunities and resources for improving their teaching through research, training and professional development. In the arena of technology, the Center responds to the needs of the faculty for professional development by organizing, staffing and delivering workshops and seminars in: technology mediated instruction; development of innovative curricula that integrate elements of technology into teaching; development of partially and fully online courses and degree programs with substantial technological components; researching, applying and disseminating best practices in instructional methods and techniques; assessment of effectiveness of technology-based instruction. It cooperates with Information Technology Services (ITS) in ensuring the creation of teaching facilities (smart classrooms, teaching laboratories) that respond to the needs of faculty and students; developing a comprehensive array of workshop offerings for faculty training; sharing information and initiatives that focus on the practical use of technology as a tool for effective teaching.

- 3. **Library/Academic Information Technologies** (**Library/AIT**) provide leadership, training, and support for technology-assisted teaching, learning, and research. Responsibilities include:
 - **Faculty Training and Development**: provide workshops in both the technological and pedagogical aspects of teaching and learning with technology, as well as one-to-one training
 - Course and Web Site Development: assist faculty in designing/building course sites, as
 well as online degree, certificate, and program sequences; build course sites for College
 departments and units
 - Facilities for Teaching and Learning with Technology: staff, support, and manage the Faculty Training and Development Laboratory; two multimedia classrooms; six group viewing rooms; three large student computing facilities; and a high-technology auditorium
 - **Blackboard Course Management System**: administer the College's virtual instance of the University's Enterprise license; train and support faculty and students in their use of this e-learning platform
 - **Student Technology Training**: offer student workshops in a range of technology applications
 - Electronic Information and Research Tools: license e-resources; provide associated access, instruction, and assistance in their use and interpretation
 - 4. **Information Technology Services (ITS)** is responsible for all technology support on campus with the exception of faculty development. Major support functions addressed by ITS include:
 - **Help Desk/Desktop Technical Support** which provides on-site and telephone support to all campus users.
 - **Network Services** which maintains the college's network infrastructure, including the extensive web systems, e-mail systems, SQL server database repositories, building file servers, and backup systems.
 - **Student Lab Support** which operates the two largest walk-in lab facilities on campus and maintains most of the department based lab/classroom facilities on campus.
 - Management Information Systems which maintains the college's strategic information systems, such as the SIMS student information system, the telephone registration system, the imaging systems, the scheduling systems, and many others.
 - **Telecommunications Services** which manages the college's voice telephone systems and voice mail systems.

IT ASSESSMENT PLAN AND SCHEDULE:

The College aims to build a comprehensive IT assessment strategy over the next five years to ensure that the IT efforts and activities planned, managed and sponsored by these different organizational entities are coordinated, that resources are allocated based on programmatic effectiveness, and that the result is an effective, cohesive IT program that serves the needs of and is transparent to the entire college community. The process will be coordinated by the Office of Academic Affairs, which oversees the Student Technology Fee Plan and allocates funding for technology-based learner-centered programs and activities. Faculty training and development activities that address pedagogical applications of technology sponsored by all of the IT units will be coordinated through the Office of Academic Affairs.

Initial assessment will focus on IT goals and activities that serve large segments of the college population and that support the goals of improved teaching and learning and greater convenience of college services.

The selected areas in this initial phase of IT assessment are:

- Public Computing Labs
- Faculty Training and Development in the Use of Technology for Teaching, Learning and Research
- Facilitate Classroom Instruction Using Technology Tools
- Online Services

Specific objectives, outcomes and assessment strategies are detailed in the charts that follow and assessment activities will commence in Spring 2007. Annual report on activities including how well the activities worked and changes that have been implemented as a result of assessment will be submitted in May. Progress reports will be submitted each December.

During 2007-2008, detailed plans for the assessment of additional IT goals, including the effort to build a student portfolio of information and computer literacy skills, will be developed and presented to the TLTR as an addendum to this document.

PUBLIC COMPUTING LABS

GOAL TO BE ASSESSED:

Maintain a public computer lab infrastructure that is accessible, well-supported, and technologically current.

SPONSORING DEPARTMENTS:

Information Technology Services, Library/Academic Information Technologies, Learning Center

PARTNERING DEPARTMENTS:

Academic Departments, Office of Institutional Research

BACKGROUND/DESCRIPTION:

At Brooklyn College, mastery and use of technology by students is encouraged in three major areas: by faculty who have integrated technology tools into their curricula, by the Library which licenses and promotes digital access to reference and research material, and by virtue of the many online tools and services that are provided for transacting academic and administrative business.

In order to serve the IT access needs of our commuter students, the College provides access to nearly 1,000 computers in four major facilities: the ITS Public computing lab, the Library, the Learning Center, and the Library Café. Most of these public lab facilities are available Mondays through Fridays for 10-14 hours daily, some provide weekend hours, and the Library Café is open 24 hours a day.

The College strives to ensure that students (and faculty) have convenient, safe, secure access to computers with online access, printing facilities, ready support, and a variety of software applications. Public computing labs are maintained and upgraded regularly, and staffed to provide responsive customer service, expert technical support, and reliable operation.

PUBLIC COMPUTING LABS

	Objective 1	Objective 2	Objective 3
Objective	Maintain labs for optimum availability	Meet utilization demands – hours, staffing, workstations	Maintain curren
Activities that Address the Objective	Maintain and repair the equipment as needed. Ensure regular cleaning. Maintain adequate virus, spyware, and other malware protections.	Schedule staff and lab service hours. Field adequate numbers of staff, computers and software licenses to meet demand.	Schedule update images, install a updates, regular and other equipr faculty to meet a needs.
Expected Outcomes: Utilization	Facilities and equipment should be available at least 95% of scheduled hours	Students should obtain access with no more than a 30 minute wait time during 90% of all service hours. Students should be assisted with problems during all staffing service hours within 15 minutes.	Subject to curric funding, and pur public computer than 3 years old, more than 2 year
Expected Outcomes: Faculty Users	Faculty will be satisfied with the way public computing labs.	that labs are configured and the way that	t their assignment
Expected Outcomes: Student Users	Students should be able to complete assigned work at times that are convenient for them.	Students should be able to obtain access on campus at their convenience and feel comfortable using the technology and services.	Students should equipment and s do their schoolw acceptable ad-ho computing activ
Expected Outcomes: Learning	Students will be better able to conduct information literacy.	research and to increase their	

PUBLIC COMPUTING LABS

	Objective 1	Objective 2	Objective 3
Objective	Maintain labs for optimum	Meet utilization demands – hours,	Maintain curren
	availability	staffing, workstations	
Assessment Strategy	Track session-based and unique-	Track session-based and unique-	Annually evalua
	user-based usage statistics over time	user-based usage statistics over time	software invento
	to gauge utilization. Facilitate	to gauge utilization. Facilitate	Facilitate studen
	student and faculty feedback online.	student and faculty feedback online.	feedback online
	Assess satisfaction using various	Assess satisfaction using various	using various su
	surveys instruments, including	surveys instruments, including	including NSSE
	NSSE, LIBQUAL, ITS Customer	NSSE, LIBQUAL, ITS Customer	Customer Satisf
	Satisfaction Surveys and	Satisfaction Surveys and	Library/AIT Sur
	Library/AIT Surveys	Library/AIT Surveys.	
Assessment	Annual report on activities due each M	Tay, including how well the activities w	orked and change
Timetable	implemented as a result of assessment	. Progress reports due each December.	
Improvement Cycle:	Academic term	Academic term	Academic term

FACULTY TRAINING AND DEVELOPMENT IN USE OF TECHNOLOGY FOR TEACHING, LEARNING AND RESEARCH

GOAL TO BE ASSESSED:

Faculty Training and Development in the Use of Technology for Teaching, Learning and Research

SPONSORING DEPARTMENTS:

Center for Teaching, Library/Academic Information Technologies, Information Technology Services

PARTNERING DEPARTMENTS:

Academic Departments, Office of the Provost, Office of Academic Assessment, Office of Institutional Research, Learning Center, Other Campus Units and Groups as Interested/Appropriate to Specific Events/Projects

BACKGROUND/DESCRIPTION:

The Center for Teaching is responsible for faculty development in the area of technology mediated instruction. It assists faculty members in the development of curricula and programs with online components through workshops and other initiatives aimed at elevating information literacy, fluency and utilization in the classroom.

The Library/AIT presents a wide range of development opportunities to faculty, staff and students each year. These opportunities take many forms including college wide workshops, departmental level small group discussions and tutorials, or on-demand one-on-one drop in training at AIT's Faculty Development and Training Lab.

FACULTY TRAINING AND DEVELOPMENT IN USE OF TECHNOLOGY FOR TEACHING, LEARNING AND RESEARCH

	Objective 1	Objective 2	Objective 3	Objec
Objective	Develop and support technology based faculty and student research activities.	Faculty will learn and adopt best practices in technology mediated instruction; cooperative learning; and building learning communities through technology	Faculty will learn software applications, functions, and pedagogical approaches appropriate to teaching in their respective fields.	Develo approac course certific faculty develop best pra to teach partiall
Activities that Address the Objective	Provide and maintain site or concurrently licensed programs that support research activities. Provide hands-on training, and consultation services in specific research tools. Subscribe to online databases and/or other scholarly electronic resources.	Three-phase workshops: 1) Faculty will learn implementation of 6 best-practices protocols (among which communication; group assignments; collaborative learning.) 2) They will adopt them in their classes; 3) They will report and share with colleagues successes and misgivings.	Training workshops in specific tools (such as Blackboard, Powerpoint, graphic programs; Adobe Acrobat) and pedagogical approaches.	Consudepart regard specifications course or cer Semir facult, Field approafeedbasystem

FACULTY TRAINING AND DEVELOPMENT IN USE OF TECHNOLOGY FOR TEACHING, LEARNING AND RESEARCH

	Objective 1	Objective 2	Objective 3	Objec
Objective	Develop and support technology based faculty and student research activities.	Faculty will learn and adopt best practices in technology mediated instruction; cooperative learning; and building learning communities through technology	Faculty will learn software applications, functions, and pedagogical approaches appropriate to teaching in their respective fields.	Devel approximately online degree prograwith to develop oppor practic to teach partial
Expected Outcomes: Utilization	Scheduling of workshops, seminars, etc devoted to faculty use of technology based research tools. An increase in the use of electronically based research resources.	An increase in technology-aided courses offered by faculty workshop participants	An increase in technology-aided courses offered by workshop participants	More progra certifi availa Enroll course
Expected Learning Outcomes: Faculty	Faculty enhance their computer and information literacy skills and employ technology based resources and tools in their professional research and their classroom teaching	Integration of conceptual elements of technology-mediated instruction in teaching.	Mastery of software appropriate to for creating original instructional materials, as well as suitable pedagogical approaches.	More involve online trained comformation required practice tools.

FACULTY TRAINING AND DEVELOPMENT IN USE OF TECHNOLOGY FOR TEACHING, LEARNING AND RESEARCH

	Objective 1	Objective 2	Objective 3	Obje
Objective	Develop and support technology based faculty and student research activities.	Faculty will learn and adopt best practices in technology mediated instruction; cooperative learning; and building learning communities through technology	Faculty will learn software applications, functions, and pedagogical approaches appropriate to teaching in their respective fields.	Deve appro cours certif facult devel best p to tea partia
Expected Learning Outcomes: Students	Students will develop information literacy skills through the integration and assigned use of research materials in their coursework	Students will learn cooperatively and work on projects representing best practices such as eportfolios. Class will develop collective eportfolios.	Students will become familiar with technology mediated instruction, multimedia presentations and materials and use specific tools as required by their instructors.	Stude cours satisf oppo onlin satisf cours
Assessment Strategy	Track workshops/ individual training sessions; survey participants regarding effectiveness/availability of resources; track electronic resource utilization. Report on number of research tools requested, installed and, if keyserv-based, requests. Faculty satisfaction survey.	Assessment will be built into the workshop. Analysis of extent of application of best practices protocols. Follow up surveys and focus groups will also be implemented	Track the number of workshops and/or individual training sessions; survey faculty and students regarding effectiveness and availability of resources. Track the growth of Bb course sites using the AIT Bb Databank	Asse into s of on instru Stude Follo focus imple

FACULTY TRAINING AND DEVELOPMENT IN USE OF TECHNOLOGY FOR TEACHING, LEARNING AND RESEARCH

	Objective 1	Objective 2	Objective 3	Objective 1
Objective	Develop and	Faculty will learn	Faculty will learn	Develop a
	support technology	and adopt best	software	programmatic
	based faculty and	practices in	applications,	approach to building

	student research activities.	technology mediated instruction; cooperative learning; and building learning communities through technology	functions, and pedagogical approaches appropriate to teaching in their respective fields.	online course sequences, degree and certificate programs; provide faculty with training in best practices and approaches to teaching of fully and partially online courses
Assessment Timetable	Annual report by the sponsoring units on activities due each May, including how well the activities worked and changes that have been implemented as a result of assessment. Progress reports due each December.	Annual report by the sponsoring units on activities due each May, including how well the activities worked and changes that have been implemented as a result of assessment. Progress reports due each December.	Biennial Report on activities by the sponsoring units; how well they worked, and changes that have been implemented as the result of assessment	Annual report on activities by the sponsoring units due each May, including how well the activities worked and changes that have been implemented as a result of assessment. Progress reports due each December.
Improvement Cycle:	Academic year	Academic year	Academic year	Academic year

FACILITATE CLASSROOM INSTRUCTION USING TECHNOLOGY TOOLS

GOAL TO BE ASSESSED:

Implement fixed and mobile facilities/resources designed to facilitate classroom instruction using technology tools.

SPONSORING DEPARTMENTS:

Information Technology Services, Library/Academic Information Technologies, Center for Teaching

PARTNERING DEPARTMENTS:

Academic Departments, Facilities, Registrar, Office of Academic Assessment, Office of Institutional Research

BACKGROUND/DESCRIPTION:

Brooklyn College faculty who have integrated technology tools into their curricula require properly equipped instructional spaces in which to teach their students. These must be technologically up-to-date, easy-to-use, comfortable for students and faculty, securely accessible, and available in sufficient quantities to meet emerging needs. They should address as wide a range of instructional styles as possible and accommodate a range of class sizes.

Currently, instructors use 100 portable presentation carts in legacy rooms, a variety of portable wireless laptop labs, and can teach in 30 smart classrooms (presentation only) and nearly 40 computer classrooms (a computer for each student).

These facilities and resources must be upgraded regularly. They must be monitored and maintained to ensure that they are operational when needed, and faculty must be trained and supported so they can use them effectively.

FACILITATE CLASSROOM INSTRUCTION USING TECHNOLOGY TOOLS

	Objective 1	Objective 2	Objective 3
Objective	Maintain labs and smart	Meet utilization demands in	Provide adequate support
	classrooms for optimum	terms of facilities and	and training to faculty
	availability, reliability and	technologies.	using the various facilities
	effectiveness.		and resources.
Activities that	Maintain and repair the	Ensure that rooms and	Have support staff
Address the	equipment as needed.	equipment are operational.	available during all
Objective	Work with facilities to	Make sufficient numbers of	teaching hours. Provide
	ensure regular cleaning and	rooms and portable	one-on-one and group
	infrastructure repairs.	solutions available to meet	training sessions every
	Maintain adequate virus,	demand. Ensure that smart	term. Post clear
	spyware, and other malware	classrooms are available in	instructions. Maintain an
	protections. Upgrade the	various sizes and with a	instructional technology
	equipment on a regular cycle, as funding allows.	variety of technology resources.	support hotline.
	Maintain spare	resources.	
	consumables, and		
	replacement parts for rapid		
	restoration of facilities		
	following a part failure.		
Expected	Facilities and equipment	75% of faculty should be	All faculty seeking
Outcomes:	should be available at least	able to schedule their	assistance and training in
Utilization	95% of scheduled hours	courses using a computer	the use of equipment
		classroom, smart	should be able to obtain it
		classroom, a presentation	within 3 days of the
		cart, a computer lab or	request. Faculty should be
		other presentation	able to operate the
		technology.	equipment effectively and
			have it operating within 5
			minutes of the start of their
			class session. There should
			be no more than a 15
			minute wait time for
			support in response to 75%
			of calls during business
			hours, and 50% of calls during off hours.
			during our nours.

FACILITATE CLASSROOM INSTRUCTION USING TECHNOLOGY TOOLS

	Objective 1	Objective 2	Objective 3
Objective	Maintain labs and smart	Meet utilization demands in	Provide adequate support
	classrooms for optimum	terms of facilities and	and training to faculty
	availability, reliability and	technologies.	using the various facilities
	effectiveness.		and resources.
Expected	II	ore varied and richer content a	•
Outcomes:		aculty should feel that the tech	nology is an important tool
Faculty Users	to help the learning process.		
Expected Outcomes: Learning		ction should result in more sati	
Assessment	Support calls and	The registrar will track	Online feedback
Strategy	equipment failures that	unfulfilled requests for	opportunities, and annual
	impact usage will be	smart classrooms and	assessments using surveys
	tracked over time to gauge	computer labs.	and/or focus groups will be
	reliability. Online feedback	Departments will report	made annually.
	opportunities, and	shortages of portable	
	assessments using periodic	equipment and requests that	Faculty who participate in
	surveys and/or focus	could not be fulfilled in	training will complete a
	groups.	private departmental	short survey at the end of the session.
		computer lab facilities. Online feedback	the session.
		opportunities, and annual	
		assessments using surveys	
		and/or focus groups will be	
		made annually.	
		made amuany.	

ONLINE SERVICES

GOAL TO BE ASSESSED:

Maximizing online access to business transactions and information

SPONSORING DEPARTMENTS:

Information Technology Services, Enrollment Services, Business Office, Human Resources, Academic Deans, Academic Departments

PARTNERING DEPARTMENTS:

Office of Institutional Research

BACKGROUND/DESCRIPTION:

To serve the needs of its large commuter population, Brooklyn College has spent the past decade building online academic and information services and systems that users can access at their convenience, that reduce run-around and speed the processing of transactions, and that protect the confidentiality of those transactions and information. Online services also leverage limited staff resources more efficiently and reduce administrative overhead costs, allowing the college and its users to focus its resources and time on the core mission of instruction and research.

Using Title III funds, the College has built and implemented a sophisticated service portal that delivers a variety of information and services to campus users in a convenient secure fashion. Faculty now use the portal to submit grades attendance, and mid-term progress reports, view student transcripts, view advisement information, view and print course rosters, purchase parking permits, post their office hours and more. Students register, pay their bills, and apply for pass/fail, F-grade replacement, declare their major/minor/concentration, apply for scholarships and graduate programs, and register for CPE tests, assessment tests, and registration appointments.

The College intends to create more services and tools and make available more types of critical decision-making information through its portal infrastructure. Each year, a minimum of two applications for student use and one application for faculty use will be added to portal services. These applications will meet high demand, and will be designed to be user-friendly, secure and effective. Examples of possible services include: online reporting and e-notification of class cancellations, online submission and e-notification of course book assignments, online submission and updating of faculty biographical profiles, tracking for student speech screenings, and online workflow for scheduling graduate comprehensive examinations.

ONLINE SERVICES

	Objective 1
Objective	Continue to create effective, secure, user-friendly online applications for students and faculty
Activities that	Systems analysis; project management; gathering specifications from the sponsor and sample users;
Address the	specifications, human interface and business logic; verification of conformance to security and privace
Objective	software, web and database development; portal integration; final usability and functional review; pr
	staff training; documentation; addition to maintenance routines; informing and educating users; revie
	and incorporating improvements
Expected	Utilization depends on the nature of the service or transaction, but the typical goal is to have usage ra
Outcomes:	affected users within 2 years of introduction, and then phasing out the corresponding manual process
Utilization	must be determined as part of each specific application's project specifications.
Expected	Users should find the online process to be reliable, convenient, and effective. Secondary outcomes a
Outcomes: Faculty	processing overhead, user time saved, and more responsive and accurate processing of transactions.
and Student Users	
Expected	By making it easier and less time-consuming to transact college business, instructors and students are
Outcomes:	of their time to that activity. Services that make information available at the point of need allow stud
Learning	better plan their activities.
Assessment	Session-based and unique-user-based statistics will be tracked over time to gauge utilization. Online
Strategy	opportunity for users to submit online feedback. Major new applications are assessed through applic
	and campus-wide surveys such as the NSSE. Application specific focus groups are held as part of the
	process.
Number of	Minimum of 2 online student services and 1 online faculty service per academic year
Activities to be	
Assessed	
Assessment	Annual report on activities due each May, including how well the activities worked and changes that
Timetable	implemented as a result of assessment. Progress reports due each December.
Improvement	Development and updates are implemented on a rolling basis throughout the year, with priority given
Cycle:	to meet emerging business process requirements, and to resolve program faults.