

**Brooklyn College**  
**10 Year Sustainability Plan**  
*Draft*  
**May 13, 2010**

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# Brooklyn College's Sustainability Mission Statement

The mission of Brooklyn College's Sustainability initiative is to create an overarching culture of sustainability throughout the entire campus community by raising awareness of, engagement in, and commitment to reducing our "carbon footprint" through campus-based education, research, operations, community-based collaboration and service. Our sustainability planning will take special recognition of the constraints, opportunities, and responsibilities attendant with our urban location in one of the most densely populated cities within the United States.

To advance this mission, the college has convened the "Brooklyn College Sustainability Council" and the "Provost's Task Force on City-Based and Sustainability Education" to evaluate Sustainability on campus and make recommendations for improvements in the "pillar" areas of: (i) waste reduction and recycling; (ii) energy; (iii) water; (iv) procurement; (v) transportation; (vi) education and outreach; and (vii) food and nutrition. Goals for advancement in each of these areas will be included in Brooklyn College's 10 Year Sustainability Plan. This plan will guide the College's Green initiatives, in conjunction with the CUNY Sustainability Initiative and PlaNYC 2030 and in partnership with businesses, government, regional, and city-wide organizations.

## Campus Description and Scope

Brooklyn College is a liberal arts college with a rigorous core curriculum and nationally recognized programs in the arts and sciences, education and business. The College is located between the neighborhoods of Flatbush and Midwood in Brooklyn, with a student body that reflects both these neighborhoods' and the city's cultural diversity and global connections. Overall enrollment increased to 17,094 in fall 2009 and the high school averages and SAT scores of entering students have continued to rise. The College supports vibrant honors programs and enhanced advisement for incoming students. The College continues to chart a forward-looking course of innovation, renewal and strategic growth, with over 50% of the full-time faculty appointed since 2000, new programs being planned, an ambitious capital improvement building program, and a facilities master planning process underway.

The Brooklyn College campus was built by the Works Progress Administration (WPA) in the 1930s, and was originally modeled on Thomas Jefferson's design for the University of Virginia. Architect Randolph Evans envisioned a campus of stately redbrick Georgian buildings, centered on a grassy main quadrangle. In 1995, Brooklyn College's 13 buildings comprised 1,278,000 net assignable square feet, or 2,196,000 gross square feet, on a 26-acre, tree-lined campus. The Princeton Review consistently cites the College's "gorgeous" yet still urban campus as one of its major draws. The original neo-Georgian buildings around the East Quad established a strong campus image that continues with new constructions and renovations today.

According to Brooklyn College's 1995 Master Plan, the physical plant was aging and out of tune with the College's needs. The original 1937 buildings had never been renovated and the campus required extensive reconstruction and technological upgrading. The Plan laid out goals for reclaiming the campus after years of neglect and transforming the existing spaces into functional and inspiring places of learning. In keeping with our commitment to provide our students with a superior educational experience, Brooklyn College embarked, in 2002, on a major capital improvement program.

Renovated and expanded in 2002-03, Brooklyn College's **Library** is now one of the most technologically advanced learning resources in New York City, and features the state-of-the-art Woody Tanger Auditorium. The library also houses four computerized classrooms and a Faculty Training and Development Laboratory. The Morton and Angela Topfer Library Café is open twenty-four hours a day, seven days a week.

Begun in 2003, the **West Quad Center** was completed in fall 2009 and is the first new building to be constructed at Brooklyn College since the 1970s. The center encompasses a verdant quadrangle and a new four-story building, housing student services and state-of-the-art physical education and athletic facilities under one roof. In keeping with the College's mission to become a more student-centered campus, the West Quad Center provides students with a central location to conduct all their college business transactions. One of the key features of the four-story West Quad Center is the Enrollment Services Center, which centralizes most of the student services that used to be scattered around campus into a time-saving, one-stop facility. The new building houses an 11,700-square-foot gym and a 25-yard, eight-lane swimming pool with two diving boards.

The College continues to chart a forward-looking course of new facilities innovation, renewal and strategic growth, with an ambitious building program, and a facilities master plan update process currently underway. Guided by the CUNY Master Plan, the 2009 reaccreditation report of the Middle States Commission on Higher Education, and the 2005-2010 Facilities Strategic Plan, the College is engaging in a strategic planning process to prioritize institutional and operational goals

for 2010-2020. Brooklyn College's new updated Facilities Master Plan will retain the beauty of the original campus while bringing needed infrastructure renovations to support 21<sup>st</sup>-century teaching, learning, research, performance, and student life. Throughout the process, our goals of maintaining a sense of place, and a safe, student-friendly and learner-centered environment will remain high priorities.

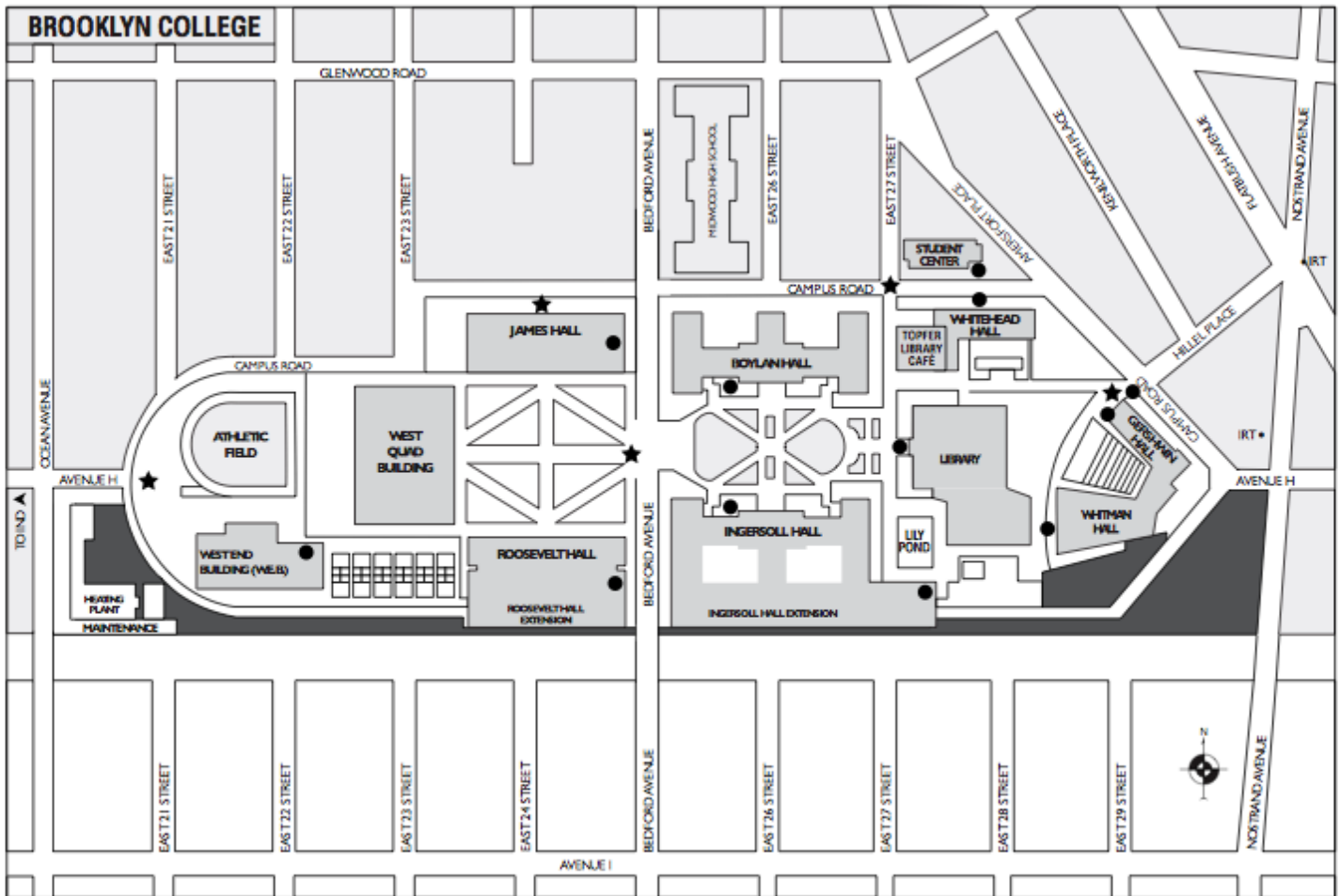
Brooklyn College's facilities were greatly improved by repairs and renovations to the performance space in Whitman Hall, and will see even more improvement with a brand-new performing arts center. The **Leonard and Claire Tow Performing Arts Center** will provide performance space for the Music and Theatre programs. The plan calls for the demolition of Gershwin Hall and the construction of a new LEED Silver certified building, which will include rehearsal and performance space, set design and construction workshops, ground-floor exhibition space, a double-height theater seating 200, a grand lobby and arcade, and classroom, meeting and reception rooms. It will also provide for a new and enhanced entry onto campus from Campus Road.

In response to the City University of New York's designation of the years 2005 to 2015 as the "Decade of Science," Brooklyn College is planning the design and construction of the **Roosevelt Science Complex**, which will improve research facilities for its programs in biology, chemistry, geology, physics, computer and information sciences, health and nutrition sciences, mathematics, psychology, anthropology, speech and hearing sciences, and exercise science. This multi-million dollar project calls for the demolition of Roosevelt Hall and Roosevelt Hall Extension and the construction of a new facility that will include high-tech instructional and research laboratories and general-purpose classrooms, faculty offices, and support areas.

Finally, a partnership with an area developer will lead to the first-ever student residence hall located two blocks from the campus and is currently scheduled to open in fall 2010.

Brooklyn College is well served by public transportation from many areas; the B, Q, 2 and 5 trains have a number of stops within the community and the B6, B8, B35, B23, B41, B44 and B49 bus routes serve the neighborhood. The Q35 connects Flatbush with Rockaway Beach, while the B103 provides a relatively rapid connection to Downtown Brooklyn.

# Brooklyn College Campus Map



★ Campus Entrance      ● Accessible Entrance for Persons with Disabilities

## Brooklyn College Sustainability Liaisons

<b>Sustainability Pillar Area</b>	<b>Name</b>	<b>Title</b>	<b>Department</b>	<b>Phone</b>	<b>Email</b>
Education/Outreach	Pieranna Pieroni	Director	College Now, School of Education	718-951-4412	pieronip@brooklyn.cuny.edu
Education/Outreach	Tammy L. Lewis	Zicklin Chair	Honors Academy/ Sociology Department	718-951-3156	Tlewis@brooklyn.cuny.edu
Education/Outreach	Pamela Brown-Laurenceau	Internship Program Specialist	Career Development and Internships	718-951-5774	Pbrown@brooklyn.cuny.edu
Education/Outreach	Pat Willard	Interim Director	Communications Department	718-951-5882	pwillard@brooklyn.cuny.edu
Education/Outreach	Ryan Buck	Director	Student Center	718-951-5842	Ryanbuck@brooklyn.cuny.edu
Purchasing	Diane Oquendo	Director	Office of Purchasing/Budget and Contracting	718-951-5133	Diane@brooklyn.cuny.edu
Purchasing	Philip Cruise		Office of the AVP for Finance, Budget and Planning/Comptroller		
Water/Energy	Robert Bell	Department Chairperson	Economics	718-951-5317	rbell@brooklyn.cuny.edu
Water/Energy	William Elfstrom	Administrative Superintendent	Facilities	718-951-5255	welfstrom@brooklyn.cuny.edu
Water/Energy	Joe Nigro*	Administrative Superintendent	Facilities	718-951-4108	jnigro@brooklyn.cuny.edu
Transportation	Donald A. Wenz	Director/Chief of Public Safety	Campus and Community Safety Services	718-951-5511	donald@brooklyn.cuny.edu
Food/Nutrition	Annie Hauck-Lawson	Associate Professor	Health and Nutrition Sciences	718-951-5000 x2754	ahlawson@brooklyn.cuny.edu
Waste/Recycling	Michael Golan	Administrative Superintendent	Facilities	718-951-5559	mgolan@brooklyn.cuny.edu
Waste/Recycling	Aldo Orlando*	Environmental Health and Safety Director	Human Resource Services/Office of Environmental Health and Safety	718-951-5400	aldo@brooklyn.cuny.edu
General Council Member	Michael Menser	Assistant Professor	Philosophy	718-951-5570	mmenser@brooklyn.cuny.edu
General Council Member	James T Eaton	Special Assistant to the Associate Provost	Office of the Associate Provost	718-951-5024	jeaton@brooklyn.cuny.edu
General Council Member	Gretchen Maneval	Director	Center for the Study of Brooklyn	718-951-5852	gmaneval@brooklyn.cuny.edu
General Council Member	Simone Herbin	Student	Brooklyn College		
General Council Member	Stavros Calakos	NYPIRG Representative/Student	Brooklyn College		
	Casey Miller**			718-808-5465	cmiller@brooklyn.cuny.edu

\*Council Co-Chair    \*\*Part-time Sustainability Coordinator

# Partners

## External Partners

Allied Recycling  
Bicyclesafe.com  
Brooklyn Borough President's Office  
Brooklyn Botanic Gardens  
Brooklyn Navy Yard  
Brooklynbybike.com  
Center for the Study of Brooklyn  
Community Board  
DASNY (Dormitory Authority of the  
State of NY)  
Engineering Consultants  
Floyd Bennett Field  
Metropolitan Foods  
Metropolitan Transit Authority  
NYC Department of Sanitation  
NYC Department of Transportation  
NYPA (NY Power Authority)  
NYPIRG (NY Public Interest Research  
Group)  
O'Brien & Gere  
Transportation Alternatives

## Internal Partners

Academic Information Technologies  
BC Administration  
BC Committee that monitors Met Foods  
BC Community at large: Faculty, Staff  
and Students  
BC Student Sustainability Clubs  
BC Sustainability Council  
College NOW  
Communications and Marketing  
Department  
CUNY Central  
Economics Department  
Environmental Health and Safety  
Excelsior  
Facilities Staff  
Film Department  
Government and Community Relations  
Health and Nutrition Sciences  
Department  
Human Resources Office  
ITS  
Kingsman  
Library staff  
Magner Center  
Property Management  
Provost's Talk Force on Sustainability  
and Place Based Education  
Public Safety  
Purchasing Office  
Small Business Center at SUBO  
Student Affairs  
TV/Radio Club



## Plan Summary

Brooklyn College's Sustainability Plan is the result of almost two years of work. Its authors made extensive efforts to gather input and feedback from a significant cross section of the campus community, specifically those faculty, staff and students who will be involved in the plan's implementation over the next several years.

To reduce waste, Brooklyn College is expanding its recycling program, locating additional metal, glass and paper recycling bins in all public areas in buildings and on the Quads. To reduce volume of bulk waste shipped off campus, the College will designate or acquire a new trash compactor, container or bailer, setting aside a section of the Roosevelt dock to store bags of recyclable bottles and cans – along with larger items such as old metal furniture and inefficient window air conditioners –for Department of Sanitation pick-up or nonprofit donation. The College already recycles or donates old computers and used furniture to a local nonprofit. The College will continue to expand composting and mulching on campus to decrease the volume of organic waste disposed in regular trash. We will continue efforts to change campus culture around paper use by transitioning to electronic distribution of memos, reports, purchase orders and brochures electronically; and digitizing forms, archiving and administrative processes. In addition, we will encourage use of scrap paper in all printers and for note taking, and discourage reckless printing and copying by promoting a 'Think Before You Print' message through policy and training. Community participation, awareness raising and training will be an essential aspect of these efforts and the College is gearing up to conduct a comprehensive public relations campaign targeting students, staff, and faculty. In partnership with the Department of Sanitation, NYPIRG and the Office of Communications and Marketing, we will encourage the campus community to properly dispose of waste and recyclables.

Brooklyn College will reduce water overuse through a combination of communications for behavior change and equipment upgrades. For example, signs will be posted in bathrooms indicating contact information to be called should someone spot a leak or other problems. With the assistance of faculty and students, we will investigate possible upgrades to water fountains in order to reduce the use of bottled water. Other projects will include a comprehensive water survey, research on the status of retrofitting plumbing with touch-less, low-flow devices and aerators, and a cost and carbon impact assessment of continuing improvements and upgrades. These will all be completed in coordination with Facilities, NYPIRG, faculty and students. The College will also explore low-flush technology for toilets and urinals, and will explore possible uses for "greywater" including irrigation or flushing toilets.

Brooklyn College will reduce energy use and achieve overall savings by further upgrading inefficient light fixtures, bulbs and motors and changing light switches to motion sensor or infrared technology. In cooperation with the New York Power Authority, CUNY, Dormitory Authority of the State of New York and campus student groups, we will evaluate our campus load and estimate potential savings of these interventions. Brooklyn College will also improve efficiencies in its Heating, Ventilating, and Air Conditioning (HVAC) systems throughout the campus by completing a campus-wide steam trap/radiator valve project, upgrading or replacing inefficient window air conditioners and burner controls, and exploring installation of window blinds or shades. A significant public relations campaign will focus on educating the community to conserve energy by turning off lights when not in use, shutting down computers at night, and keeping windows closed. Over the longer term, the College will explore generating energy on campus by installing photovoltaic panels on various flat roofs around campus. The College has committed to obtaining LEED Certification for all future planned construction. To that end, we are slated to obtain Silver LEED certification for the Leonard and Claire Tow Performing Arts Center that is scheduled for construction.

Brooklyn College has already begun making major changes in "green" procurement, purchasing biodegradable, recycled and reusable paper products, janitorial products and cleaning accessories, including "green" trash bags

that dissolve in landfills. We will continue to conduct awareness raising and education around “green” procurement, encouraging the campus community to reduce waste by purchasing items that are not shipped with extraneous packaging. The College’s Purchasing Office is compiling a directory of “green” vendors, suppliers and contractors and will encourage the campus community to use them whenever possible.

In food and nutrition, the College is reducing our carbon footprint by collaborating with Metropolitan Foods in an effort to replace plastic and Styrofoam with biodegradable, post-consumer or refillable containers, and offer food options that are local and healthy. We will educate the campus community about natural foods, nutrition and caloric content by working with Metropolitan Foods, the Health and Nutrition Sciences Department and the Communications and Marketing Office to produce signage and other educational materials highlighting where our food comes from, how it is prepared, and ways our students can make healthier food choices. We hope to improve general campus-wide health through efforts to encourage Dining Services to offer healthier, fresh, low fat and natural foods and facilitate comments from the college community to the dining service through prominently displayed suggestion sites.

Brooklyn College will also seek to decrease carbon emissions by encouraging increased use of biking, along with bike safety education, as well as carpooling, public transportation and walking, while raising awareness about the College’s ongoing efforts to “green” its vehicle fleet and promote sustainable transportation to and from the campus. Working with Public Safety and the Communications and Marketing Office, we will rollout a public relations campaign to advertise our efforts to “go green” in transportation. The College is looking into ways to utilize alternative fuel as well as hybrid technology in its vehicle fleet by developing partnerships with city agencies that operate E85 Ethanol provision services, and investigating acquiring a fueling station on campus. We will encourage bicycling by adding and maintaining bicycle racks in safe, well-lit, accessible locations that are easily seen by security officers, and will explore developing a bike sharing program. The College will promote bicycle safety through workshops, information referrals and online information in partnership with city-wide and Brooklyn-based nonprofits and other community organizations.

To support, monitor and promote activities in sustainability-related curriculum and faculty research, Brooklyn College will facilitate partnership between the Provost’s Task Force on Sustainability, the Center for the Study of Brooklyn and the Brooklyn College Sustainability Council to create a website, host events and compile an inventory of curriculum and faculty teaching and research on sustainability. The College will review its staffing levels to meet the goals of coordinating, monitoring and reporting on ongoing sustainability initiatives that are included in Brooklyn College’s 10 Year Plan in response to recommendations issued by the College’s Sustainability Council. In partnership with various offices and academic departments, we will enhance student training in “green” jobs by encouraging students, staff and faculty to learn about innovations in sustainability. The College will work to incorporate sustainability into classes and correlate sustainability-related coursework with focused internships and career counseling. The Magner Center for Career Development and Internships will develop a list of available internships in environmental studies and sustainability, including “green” businesses, non-profits, non-governmental organizations and others. Through a coordinated effort of the College’s Communications and Marketing Office, Film Department, TV/Radio Club and students, we will conduct an extensive awareness-raising public relations campaign, teach-ins and other events to enhance general campus awareness about our efforts to “Go Green”. Extending beyond the campus, partnerships with the local community will include implementation of a College run “Brooklyn College Garden” and facilitating high school and college students to learn and network around sustainability-related issues through College Now and other Brooklyn College departments and programs. Other community partnerships with organizations such as the Brooklyn Botanic Gardens, Brooklyn Navy Yard and the Borough President’s office, will continue to extend our sustainability initiatives into the greater Brooklyn community.

# History of Sustainability on Campus

“Going Green” has been a priority for Brooklyn College for many years. Prior to 2004, Brooklyn College undertook several sustainability-focused endeavors, including:

- From 1993-95 Brooklyn College switched its Heating Plant from number 6 oil to natural gas/number 2 oil, reducing CO2 emissions.
- Established in 1994, Brooklyn College’s Aquatic Research and Environmental Assessment Center (AREAC) fosters research on marine and freshwater organisms (1) to understand the response of marine biota to environmental forcings, (2) to understand organism behaviors, and (3) for the development of aquaculture.
- Established in 1994, the Environmental Science Analytical Center (ESAC) at Brooklyn College is equipped with state-of-the-art instrumentation for environmental research and education, and provides analytical services to the public. The Center is open to all faculty members, researchers and students at Brooklyn College and other City University of New York Campuses for their research and teaching activities.
- In 1995/96 Brooklyn College conducted a partial lighting upgrade, changing ballasts/lighting fixtures in various buildings to help reduce electrical demand.
- From 1994-98, Brooklyn College conducted a HVAC/Steam distribution rehabilitation project, installing central controls on air handlers to help reduce fuel demand.
- In 1999/2000, the College replaced numerous inefficient chiller systems spread across campus with a high efficiency central Chiller plant and chilled water distribution system to reduce overall campus electrical demand.
- In 1993-95, the College renovated the campus-wide condensate water system to reduce water make-up and overall energy usage in the central heating plant.

More recent projects (executed since 2004) include:

- From 1996 to 2005, Brooklyn College conducted a campus-wide window replacement initiative, replacing old and inefficient windows in 75 percent of the buildings with high efficiency windows. The College’s 10-year Sustainability Plan includes the goal of ensuring consistency and compliance in the remaining campus buildings such as Whitehead Hall and Gershwin/Whitman Theaters.
- From 2000-2005, Brooklyn College expanded bicycle parking from one location to five locations at all main campus entrances. Currently, 136 bicycles can be parked, and the College is investigating further expansion of bike racks into additional areas and/or enlarging areas that already exist.
- Since 2004, Brooklyn College had made efforts to reduce fuel emissions through upgrades to our fleet, including purchasing nine electric carts, four electric mega vans, and several hybrid vehicles.
- In 2006, Brooklyn College replaced non-functional condensate return systems, reducing boiler water make-up, which directly reduced fuel and electrical demand.
- Since approximately 2007 most College computers campus-wide have been set-up with a program that initiates a “sleep mode” when idle for a pre-determined period. The College’s 10-year plan includes this goal to ensure consistency and compliance in all offices and buildings campus wide.
- Since 2008, the College has been collecting and reporting data as part of CUNY’s Greenhouse Gas Inventory project.
- According to recent research, during the Fiscal Year 2008-09, Brooklyn College purchased over \$875,000 in “green” goods and services which included exterminating services, post-consumer recycled resin screens for the cafeteria, floor stripper, paper towels and toilet tissue, Enviro-care cleaners, recycled ceiling tiles, carpeting and fertilizers. Brooklyn College purchased Energy Star kitchen equipment and a dishwasher, HVAC Equipment including window air-conditioners; recycled paper, file folders, envelopes and environmentally conscious printing services.
- For years, Brooklyn College Facilities has recycled paper, glass, plastic bottles, cans and scrap metal. In 2009, the College expanded its paper-recycling programs, by introducing additional recycling bins in all public corridors and small individual paper-recycling bins at every desk in every office across campus.
- Metropolitan Foods, our dining services provider, has made efforts to “Go Green” by purchasing food from Long Island’s J. Kings distributors, which sources locally farmed food. They also recycle used cooking oil in partnership with a certified bio-diesel vender.

- Environmental health and safety compliance is a top priority for the college, with hazardous waste removed by licensed vendors. Brooklyn College has implemented an environmental waste disposal program whereby rechargeable batteries, fluorescent light bulbs, chemical and electronic waste are recycled.
- Chaired by Brooklyn College Chemistry Professor Mark Kobrack, the Brooklyn College Sustainability Roundtable is an informal association of faculty with interests related to the social, scientific, or technological challenges involved in creating a sustainable society. Their goal is to foster collaborations in research and teaching that can provide tools for sustainable development and raise awareness. The group regularly hosts seminars to highlight work both by its members and from the community.
- Brooklyn College's Honors Academy has presented two series of sustainability related events, the Careers & Sustainability Seminar Series and the Sustainability Fall Film Series, to promote discussion among students and faculty regarding this complex issue.
- The Brooklyn College Program in Environmental Studies is a liberal arts interdisciplinary program that educates students to be fluent in the languages of the social and physical sciences related to the environment. They offer a Bachelor of Arts degree in environmental studies or environmental management. The major draws on courses from fourteen academic departments and a minor in environmental studies is available.

## Action Plan by Pillar Area

### Waste Reduction and Recycling

1.	Goal: Decrease amount of paper and cardboard shipped off-site in bulk waste		
	Timeline	By August 2010	
	Goal summary	Objective	Increase paper and cardboard recycling by 25 percent in all offices and buildings
		Metrics for success	Weight/volume shipped offsite
		Baseline	Use 2008-09 Annual Recycling Report as part of Executive Order 4.
		Costs & Funding	TBD
		Implementing agents	Facilities Staff NYPIRG Faculty, Staff and Students
	Actions to be taken	<ul style="list-style-type: none"> <li>Engage NYPIRG, faculty and students to establish baseline measurements of recyclable materials that end up in bulk waste.</li> <li>Add/locate paper recycling bins in all public areas (hallways, lobbies, department offices)</li> <li>Add/place/locate 1200 paper recycling bins near mailboxes and desks in administrative and faculty offices</li> <li>Convert paper shredders into recycling bins and ensure that they're properly labeled in all offices</li> <li>Designate a compactor to be used only for paper</li> </ul>	

2.	Goal: Decrease amount of paper and cardboard shipped off-site in bulk waste		
	Timeline	By August 2013	
	Goal summary	Objective	Increase paper and cardboard recycling by campus community
		Metrics for success	Weight/volume shipped offsite
		Baseline	2008-09 Annual Recycling Report
		Costs & Funding	TBD
		Implementing agents	Facilities Staff
	Actions to be taken	<ul style="list-style-type: none"> <li>Engage NYPIRG, faculty and students to establish baseline measurements of recyclable materials that end up in bulk waste.</li> <li>Evaluate and acquire additional container or bailer to be used only for cardboard</li> </ul>	

3.

Goal: Decrease volume of glass, metal and plastic recyclables shipped off-site in bulk trash		
Timeline	By August 2010	
Goal summary	Objective	Increase amount of metal, glass and plastic bottle recycling in dining services and by the entire campus community
	Metrics for success	Weight/volume of glass, metal and plastics shipped out/picked up for recycling. May coordinate with students and teachers to assess recyclables in trash in certain areas over time
	Baseline	Use 2008-09 Annual Recycling Report as part of Executive Order 4.
	Costs & Funding	TBD
	Implementing agents	NYPIRG NYC Department of Sanitation (DOS) Communications and Marketing Office Facilities Staff Metropolitan Foods Allied Recycling
Actions to be taken	<ul style="list-style-type: none"> <li>Engaging NYPIRG, faculty and students to establish a baseline measurement of recyclable materials that have ended up in bulk waste. Place recycling bins on every floor of each building as per New York State code</li> <li>Purchase and install exterior metal can, plastic and glass recycling bins for placement on the Central and West Quads. Ensure their consistency with pre-existing campus aesthetics (they must be metal, match the current color scheme, and be appropriately labeled)</li> <li>Work with Facilities and DOS to establish a system to monitor quantity of recycled material</li> <li>Set aside a section of the Roosevelt dock to store bottles and cans recycling for Sanitation pick-up</li> <li>Increase recycling in Boylan cafeteria by placing several bottle and can recycling containers. Coordinate with Metropolitan Foods to drop off bottles/cans bags at Roosevelt dock</li> <li>Coordinate with Allied Recycling to obtain figures on recycling they pickup for Metropolitan (obtain percentage breakdown of total waste vs. recycling)</li> </ul>	

4.

Goal: Decrease volume of recyclable bulk metal shipped off-site in bulk trash		
Timeline	By August 2010	
Goal summary	Objective	Increase recycling of bulk metal furniture and other large items
	Metrics for success	Weight/volume of recycling shipped offsite
	Baseline	2008/09 Annual Recycling Report
	Costs & Funding	TBD
	Implementing agents	Facilities Staff Nonprofit (TBD) NYC Department of Sanitation
Actions to be taken	<ul style="list-style-type: none"> <li>Establish a 30-yard container for scrap metal and old furniture, including shelves, desks and cabinets.</li> <li>Whenever possible Coordinate with a nonprofit to recycle/donate metal furniture slated for disposal on campus</li> <li>In partnership with Department of Sanitation, remove Freon from decommissioned air conditioners and refrigerators and then recycle them as scrap metal</li> </ul>	

5.

Goal: Reduce volume of general bulk waste shipped off-site		
Timeline	By August 2010	
Goal summary	Objective	Increase recycling of larger items and (hazardous) materials through education and policy
	Metrics for success	Volume shipped off site
	Baseline	2008/09 Annual recycling report
	Costs & Funding	TBD
	Implementing agents	CUNY Dormitory Authority of the State of NY New York State ITS Property Management Environmental Health and Safety
Actions to be taken	<ul style="list-style-type: none"> <li>Seek to incorporate more sustainable recycling and waste disposal procedures in capital construction and renovation sites on campus (in partnership with CUNY, DASNY and NYS)</li> <li>Recycle/return delivery pallets to vendors/shippers</li> <li>Recycle old computers and other electronic waste and whenever possible donate these, along with used furniture and other items slated for disposal, to non-profit organizations or public schools</li> <li>Recycle used batteries and all florescent bulbs, including compact fluorescents</li> <li>In compliance with the Environmental Protection Agency, collect, recycle or dispose of all hazardous chemical waste through a licensed company to ensure that no illegal effluents are discharged into the NYC sewer system</li> <li>Collect cooking oil from dining services and sell as bio-diesel fuel</li> <li>Use “green” bags that dissolve in landfills for bulk waste collection and recyclables, with the exception of paper recycling, which does not require a bag. Ensure compliance of custodial staff.</li> </ul>	

6.	Goal: Decrease amount of organic waste disposed in bulk waste		
Timeline	Sept 2010 – August 2013		
Goal summary	Objective	Expand Composting on Campus	
	Metrics for success	TBD	
	Baseline	TBD	
	Costs & Funding	Determine costs of purchasing storage bins if necessary and transportation of organic material to compost site.	
	Implementing agents	Health and Nutrition Sciences Department Facilities Staff Partner with Department of Sanitation, Floyd Bennett Field and/or Botanic Gardens to transport and dispose of campus landscaping waste	
Actions to be taken	<ul style="list-style-type: none"><li>• Coordinate with Health and Nutrition Department to continue composting organic food waste on and off campus.</li><li>• Research expanding composting program to include transporting landscaping and other organic waste from campus, with pest-management in mind.</li><li>• The College has been mulching lawn waste on-site, but does not have the capacity to chip or shred shrubs, trees and other gardening waste. Investigate expanding composting/mulching on campus to include additional landscaping/gardening items</li></ul>		

7.	Goal: Decrease amount of recyclable materials that end up in bulk waste through education and awareness-raising		
	Timeline	By August 2010	
	Goal summary	Objective	Conduct education, awareness-raising, PR and training for the campus community to recycle paper, cardboard, glass, metal and plastic bottles and properly dispose of waste
		Metrics for success	Weight/volume of recycling shipped offsite
		Baseline	Use 2008-09 Annual Recycling Report
		Costs & Funding	TBD
		Implementing agents	Communications and Marketing Office Library staff NYC Department of Sanitation NYPIRG Faculty and Students Center for the Study of Brooklyn
	Actions to be taken	<ul style="list-style-type: none"><li>• Engage NYPIRG, faculty and students to establish baseline measurements of recyclable materials that end up in bulk waste.</li><li>• Coordinate between the Facilities Department and NYPIRG to encourage use of bins that are already around campus, ensure that recycling bins are properly labeled and to distribute educational material and monitor cooperation in administrative offices</li><li>• Instruct students and faculty to remove and recycle paper from hard-covered books that would otherwise be thrown out</li><li>• Work with Office of Communications and Marketing and Center for the Study of Brooklyn to gather compelling data and disseminate information to campus community</li><li>• Communicate with Department of Sanitation about acquiring signs, stickers, and various other PR materials to post around campus</li></ul>	



8.	Goal: Reduce Paper Usage	
Timeline	By August 2010	
Goal summary	Objective	Educate and enact policy targeting the general campus community (staff, faculty and students) to reduce paper use
	Metrics for success	Paper expenditure
	Baseline	2008-09 Purchasing records
	Costs & Funding	
	Implementing agents	Purchasing Office ITS Communications and Marketing NYPIRG Academic Information Technologies
Actions to be taken	<ul style="list-style-type: none"> <li>• Encourage electronic distribution of flyers, memos, reports, purchase orders, obituaries and brochures.</li> <li>• Encourage re-use of scrap paper in all printers and for note taking. Investigate dedicating one tray for reuse of scrap paper in all large printers.</li> <li>• Encourage printing on letterhead paper only as needed; use electronic letterhead whenever possible.</li> <li>• Discourage reckless printing and copying by requiring use of an account/password</li> <li>• Encourage (mandate?) the campus community to include the following “green” message as part of a standard email signature; “Brooklyn College is Going Green. Please consider the environment before printing this email”</li> <li>• Encourage increased use of Blackboard as a paper-free resource</li> <li>• Reduce paper towel waste in bathrooms by replacing all crank-style dispensers with push-style dispensers. Recycle or donate any equipment that is replaced.</li> </ul>	

9.	Goal: Reduce Paper Usage	
Timeline	Sept 2010 – August 2013	
Goal summary	Objective	Encourage changes in habits regarding paper use amongst faculty and staff, change default settings, and conduct trainings and monitoring to ensure compliance in all administrative operations
	Metrics for success	Paper expenditure
	Baseline	2008-09 Purchasing records
	Costs & Funding	May require purchasing new printers/copiers/software
	Implementing agents	Will need agreement of professors, provost, etc regarding suggested changes to student assignments ITS Center for the Study of Brooklyn Brooklyn College Sustainability Council Academic Information Technologies Purchasing Office Communications and Marketing Office NYPIRG
Actions to be taken	<ul style="list-style-type: none"> <li>• Coordinate with ITS/AIT to distribute (an) email(s) with detailed instructions, including “screen shots” on how to change settings on computers, copiers, faxes, printers.</li> <li>• Organize ITS/AIT trainings for faculty and staff on paper reduction policy and coordinate with them to be available for answering questions.</li> <li>• Work with ITS/AIT to ensure that all offices have changed settings on computers, copiers, faxes, printers, etc. in compliance with paper reduction policy.</li> <li>• Work with NYPIRG and/or ITS to conduct a survey as the paper reduction protocol rolls out.</li> <li>• Establish duplex (two-sided) printing as standard in administrative offices and for student assignments with an eye towards full electronic submission, comments, grading and return</li> <li>• Continue digitizing forms and administrative processes, replacing paper-based distribution of documents including meeting handouts.</li> <li>• Test and evaluate widespread adoption of print management / print-saving software (e.g. GreenPrint).</li> <li>• Phase out fax machines and replace with electronic faxing (research applicable technology/software such as Winfax or E-fax).</li> <li>• Phase out fax cover pages.</li> <li>• Increase electronic archiving and record keeping; work with Purchasing, Personnel, Professors and/or Student Records to define and identify target areas.</li> <li>• Encourage all administrative and academic departments to use the services of catalogchoice.org to stop receiving superfluous catalogues</li> <li>• Investigate replacing paper towels with air dryers in all bathrooms and conduct research and cost analysis to determine the relative benefit of air dryers.</li> <li>• Network all printing to shared copiers/printers and phase-out stand-alone printers where possible.</li> <li>• Work with Purchasing Office to convert Purchase Orders for small expenditures to electronic form. Research “electronic signatures” for larger POs</li> <li>• Encourage modification (drafting and editing) of documents on desktop to reduce printed pages.</li> <li>• Investigate reducing default margin settings and use single-spaced formatting.</li> </ul>	

## Water

10

Goal: Reduce potable water usage and discharge of effluent/storm water to the NYC sewer system		
Timeline	Sept 2010 – August 2013	
Goal summary	Objective	Change behavior around on-campus water use and perform equipment upgrades
	Metrics for success	Research and extrapolate theoretical reduction in water use and discharge by proposed upgrades
	Baseline	Collaborate with NYPIRG, faculty and other student groups to conduct a water survey. This will include researching the status of the College's retrofitting of plumbing with touch-less, low-flow devices and aerators, determining cost and carbon impact and calculating how much "old" plumbing is still in use.
	Costs & Funding	Research possible funding and maintenance costs and training involved
	Implementing agents	Communications and Marketing Office NYPIRG Faculty and Students Facilities Staff
Actions to be taken	<ul style="list-style-type: none"> <li>• Post signs in bathrooms indicating who should be called if someone spots a leak or other problem</li> <li>• Investigate installation of aerators and auto-detect flushing and sink faucets in all bathrooms</li> <li>• Use new sprinklers in the Central and West Quads and use them only at night</li> <li>• Reduce burden of storm water discharge on city sewer system by mandating installation of storm water detention system on all new campus construction projects such as the library, performing arts center, West Quad and Roosevelt science complex.</li> <li>• Investigate feasibility of converting existing storm water discharge systems to storm water detentions system.</li> </ul>	

Goal: Reduce potable water usage and discharge of effluent/storm water to the NYC sewer system		
Timeline	By 2017	
Goal summary	Objective	Change behavior around on-campus water use and perform equipment upgrades
	Metrics for success	Research and extrapolate theoretical reduction in water use and discharge by proposed upgrades
	Baseline	Collaborate with NYPIRG, faculty and other student groups to conduct a water survey. This will include researching the status of the College's retrofitting of plumbing with touch-less, low-flow devices and aerators, determining cost and carbon impact and calculating how much "old" plumbing is still in use.
	Costs & Funding	Research possible funding and maintenance costs and training involved
	Implementing agents	Facilities Staff
Actions to be taken	<ul style="list-style-type: none"> <li>• Explore creating "grey water" systems for new construction or the collection of rainwater in cisterns for irrigation and other "grey water" uses such as flushing toilets</li> <li>• Evaluate upgrading campus wide toilets, sinks, showers and urinals to low-flush type fixtures.</li> </ul>	

Goal: Reduce campus carbon foot print through drinking water interventions		
Timeline	Sept 2010 – August 2013	
Goal summary	Objective	Reduce use of bottled water and increase use of drinking water fountains
	Metrics for success	TBD by research
	Baseline	TBD by research
	Costs & Funding	TBD by research. Possible cost of upgrading fountains vs. monetary cost of purchasing bottled water and “carbon price” of transportation
	Implementing agents	Faculty, Staff, and Students Facilities Staff Environmental Health and Safety Office Purchasing Office
Actions to be taken	<ul style="list-style-type: none"> <li>• Have Brooklyn College drinking water tested and establish a periodic schedule for updating and communicating results to the college community</li> <li>• Investigate upgrading water fountains, equipping them with filters and dispensers that pour water from the top to fill bottles, in addition to the drinking dispenser</li> <li>• Sell empty refillable water bottles in vending machines</li> </ul>	

## Energy

13.	Goal: Reduce all energy use (gas/fuel and electric) on campus through education and awareness raising		
	Timeline	Sept. 2010 – August 2013	
	Goal summary	Objective	Achieve overall savings by conducting education/awareness raising campaign encouraging the campus community to conserve energy
		Metrics for success	TBD
		Baseline	Obtain an estimate of how many light bulbs are on campus and determine how many are efficient
		Costs & Funding	TBD
		Implementing agents	Communications and Marketing Office ITS NYPIRG
	Actions to be taken	<ul style="list-style-type: none"> <li>• Work with Communications and Marketing office to design stickers to place near light switches reminding people to turn them off when not in use</li> <li>• Periodically send around a general campus email regarding energy savings and updates</li> <li>• Send email announcements to the college community on peak energy usage days (a “flashy” notice with colorful graphics could generate attention and encourage people to use less energy on these days)</li> <li>• Work with Communications and Marketing to design and roll-out a PR campaign advertising Brooklyn College’s efforts to “go green” in energy</li> <li>• Work with Communications and Marketing office to raise awareness amongst the campus community about keeping windows closed</li> </ul>	

14.	Goal: Reduce all energy use (gas/fuel and electric) on campus		
	Timeline	Completed by 2017	
	Goal summary	Objective	Reduce energy overuse and achieve overall savings through equipment upgrades and alternative HVAC design
		Metrics for success	TBD
		Baseline	TBD
		Costs & Funding	TBD
		Implementing agents	Economics Dept (Robert Bell) NYPA, CUNY and DASNY
	Actions to be taken	<ul style="list-style-type: none"> <li>• Work with Robert Bell to explore Passive House technology to provide cooling and heating cheaply in Whitehead. Determine feasibility and estimate savings.</li> <li>• With NYPA, CUNY and DASNY: retrofit fume hoods and ventilation equipment in the science facilities, convert them to newer low-flow hoods and modify the air velocity into the hoods</li> <li>• Obtain Gold or Platinum LEED certification for the Tow Performing Arts Center that is currently being designed.</li> <li>• Explore capital renovation options to reduce electric and fuel energy use.</li> </ul>	

15.	Goal: Reduce electrical consumption		
	Timeline	By Aug 2010	
	Goal summary	Objective	Activities and interventions in Admin/operations and Heating, Ventilating, and Air Conditioning (HVAC)
		Metrics for success	TBD
		Baseline	Obtain an estimate of how many window A/C units are on campus and determine how many are energy efficient
		Costs & Funding	TBD
		Implementing agents	Facilities NYPA CUNY DASNY Purchasing Office
	Actions to be taken	<ul style="list-style-type: none"> <li>• Work with ITS to ensure that all computers are shut down at night/on automatic sleep mode during the day</li> <li>• Institute policy to upgrade all existing window ACs with “Energy Star” efficient ACs and recycle all the old A/Cs)</li> </ul>	

16.	Goal: Reduce electrical consumption		
	Timeline	Sept 2010 – August 2013	
	Goal summary	Objective	Activities and interventions in Heating, Ventilating, and Air Conditioning (HVAC) and lighting
		Metrics for success	TBD
		Baseline	<ul style="list-style-type: none"> <li>• Obtain an estimate of how many windows are on campus, how many are energy efficient and how many are not (energy efficient windows and/or blinds have been installed in Library, Whitehead, James, and Ingersoll Extension. West Quad and New Performing Arts Center will get them. Conduct an inventory of this)</li> <li>• Obtain an estimate of how many light bulbs are on campus, how many are energy efficient and how many are not</li> <li>• Work with CUNY and NYPA to evaluate our campus load</li> </ul>
		Costs & Funding	TBD
		Implementing agents	Facilities NYPA CUNY DASNY Purchasing Office
	Actions to be taken	<ul style="list-style-type: none"> <li>• Research timers to connect with ACs so they’re not on all night</li> <li>• Work with NYPA, CUNY and DASNY to change all inefficient light fixtures/bulbs and motors on campus to efficient equipment</li> <li>• Work with NYPA, CUNY and DASNY to change all light switches to motion sensor/infrared (whatever is most updated technology). Conduct research to determine locations and detailed savings estimate</li> </ul>	

17	Goal: Reduce demand on the grid by generating electricity onsite		
	Timeline	By 2017	
	Goal summary	Objective	Generate energy on campus
		Metrics for success	Research to estimate savings
		Baseline	TBD
		Costs & Funding	Federal stimulus funding to install solar panels on government buildings in NYC
		Implementing agents	NYPA Engineering Consultants CUNY Brooklyn College
	Actions to be taken	<ul style="list-style-type: none"> <li>Explore installation of photovoltaic panels on flat roofs of West Quad, James, Library and Ingersoll Extension . Research possibility of selling the extra power that is generated by photovoltaic panels back to the grid.</li> </ul>	

18.	Goal: Reduce gas and fuel consumption		
	Timeline	By August 2010	
	Goal summary	Objective	Conduct activities and interventions in Heating, Ventilating, and Air Conditioning (HVAC)
		Metrics for success	Meter readings
		Baseline	2005 levels reporting
		Costs & Funding	TBD
		Implementing agents	CUNY/DASNY/NYPA/NYSERDA
	Actions to be taken	<ul style="list-style-type: none"> <li>Complete campus-wide steam trap/radiator valve project</li> <li>Explore installation of window blinds or shades (manual and/or automatic) and conduct research to determine locations and estimate savings. Old Roosevelt and Whitman, for example, need them</li> <li>Evaluate and upgrade water treatment equipment</li> </ul>	

19.	Goal: Reduce gas and fuel consumption		
	Timeline	Sept 2010 – August 2013	
	Goal summary	Objective	Conduct activities and interventions in Heating, Ventilating, and Air Conditioning (HVAC)
		Metrics for success	Meter readings
		Baseline	2005 levels reporting and result of campus window inventory
		Costs & Funding	TBD
		Implementing agents	CUNY/DASNY/NYPA/NYSERDA
	Actions to be taken	<ul style="list-style-type: none"> <li>Upgrade/replace inefficient/nonfunctioning burner controls</li> <li>Explore installation of ceiling/wall mounted fans and conduct research to determine locations and estimate savings</li> <li>With NYPA, CUNY and DASNY: replace single pane windows in Whitehead with thermal panes</li> </ul>	



## Procurement

20.

Goal: Purchase biodegradable, recycled or reusable products		
Timeline	By August 2010	
Goal summary	Objective	Increase quantity of “green” products purchased
	Metrics for success	Increase in spending on “Green” products
	Baseline	2008/09 purchasing baseline data
	Costs & Funding	TBD
	Implementing agents	Purchasing Office Faculty, Staff and Students
Actions to be taken	<ul style="list-style-type: none"><li>• Purchase copy/computer paper made entirely or partially from post-consumer/recycled materials</li><li>• Purchase post-consumer/recycled restroom paper products (hand towels, tissue paper and toilet paper)</li><li>• Purchase janitorial cleaning accessories, such as buckets, pails, mops, etc made from post-consumer/recycled components.</li><li>• Purchase “green” bags (that dissolve in landfill) from the Industry of the Blind and use them for bulk waste collection and recyclables with the exception of paper</li><li>• Purchase only “green” cleaning chemicals and paint</li></ul>	

21.

Goal: Conduct awareness raising/education campaign around Green Purchasing/procurement		
Timeline	Sept. 2010 – August 2013	
Goal summary	Objective	Increase quantity of “green” products purchased
	Metrics for success	Increase in spending on “Green” products
	Baseline	2008/09 purchasing baseline data
	Costs & Funding	TBD
	Implementing agents	Purchasing Office Communications and Marketing office Faculty and Staff
Actions to be taken	<ul style="list-style-type: none"><li>• Target the campus community to reduce waste by purchasing items that do not come in/with extra packaging. Request no extra packaging whenever possible.</li><li>• Compile a directory of green-vendors, suppliers, contractors, etc and encourage the campus community to use them whenever possible.</li><li>• Work with Communications and Marketing to design and roll-out a periodic PR campaign to advertise Brooklyn College’s efforts to “go green” in procurement</li></ul>	

## Food and Nutrition

22.	Goal: Enhance campus-wide health, Reduce BC's carbon footprint and reduce waste		
	Timeline	August 2010	
	Goal summary	Objective	Promote sustainable operations in Campus Dining and Vending Services
		Metrics for success	TBD
		Baseline	TBD
		Costs & Funding	TBD
		Implementing agents	Metropolitan Foods BC Committee that monitors Metropolitan Foods
	Actions to be taken	<ul style="list-style-type: none"> <li>• Implement recycling of cooking oils to Bio-Diesel vender</li> <li>• Install a microwave in the cafeteria that can be used to heat the food that people bring in, and keep it clean and maintained</li> <li>• Encourage Dining Services to purchase local/sustainably grown foods</li> <li>• Research and monitor ongoing opportunities to offer locally supplied and grown, health and fresh campus food options (vegetarian and organic foods, healthy oils and whole grains) through continual improvements in Dining Services</li> <li>• Enhance the ability of students, staff and faculty to communicate suggestions, and critiques to Dining Services (i.e. by prominently displaying onsite/online suggestion boxes)</li> <li>• Establish a smoothie bar featuring natural, fat-free and low fat yogurt, fresh fruit and a non sugar base</li> </ul>	

23	Goal: Enhance campus-wide health, Reduce BC's carbon footprint and reduce waste		
	Timeline	Sept. 2010 - August 2013	
	Goal summary	Objective	Promote sustainable operations in Campus Dining and Vending Services
		Metrics for success	Determine the relative environmental impact of cafeteria products made of paper, ceramic, and other materials vs. current use of plastic and Styrofoam
		Baseline	TBD
		Costs & Funding	TBD
		Implementing agents	Metropolitan Foods Communications and Marketing Department Health and Nutrition Sciences BC Committee that monitors Metropolitan Foods
	Actions to be taken	<ul style="list-style-type: none"> <li>• Review Food service Contract in relation to campus sustainability issues and include in next bid document the minimum sustainable operational criteria that must be met by the successful bidder/vender</li> <li>• Offer/supply reusable mugs and refills for a discounted price with a portion of the proceeds benefiting a non-profit.</li> <li>• Investigate cafeteria policy that would allow people to bring in their own drink containers for a discounted price on beverages</li> <li>• Review, evaluate and modify foods and drinks selections in dining services and vending machines to offer more healthy, fresh, low-fat and natural items</li> <li>• Investigate and encourage Dining Services to reduce/replace use of plastic and Styrofoam</li> </ul>	

24.

Goal: Enhance campus-wide health through nutritional education		
Timeline	Sept. 2010 - August 2013	
Goal summary	Objective	Educate the campus community about natural foods, nutrition and caloric content
	Metrics for success	TBD
	Baseline	TBD
	Costs & Funding	Costs associated with providing nutritional and caloric content TBD by research
	Implementing agents	Metropolitan Foods Communications and Marketing Office Health and Nutrition Sciences BC Committee that monitors Metropolitan Foods
Actions to be taken	<ul style="list-style-type: none"> <li>• Work with Metropolitan Foods and the Communications and Marketing Department to produce signage communicating where food comes from, how it's prepared, caloric content and other nutritional information</li> <li>• Work with Metropolitan Foods, HNS and Communications and Marketing Department to produce a brochure made available in the cafeteria encouraging students to choose healthier foods</li> <li>• Indicate with signage where organic products are featured in the dining hall (the salad bar for example).</li> <li>• Provide health and nutrition activities and classes on campus</li> </ul>	

## Transportation

25.	Goal: Reduce carbon footprint by promoting alternate transportation options		
	Timeline	August 2010	
	Goal summary	Objective	Raise awareness and educate the college community about BC's efforts to "green" our fleet and promote sustainable transportation to and from the campus
		Metrics for success	Reduction in standard fuel usage
		Baseline	Annual Reporting on fuel volume purchased (2005)
		Costs & Funding	TBD
		Implementing agents	Purchasing Office Public Safety Facilities Staff Communications and Marketing Department
	Actions to be taken	<ul style="list-style-type: none"> <li>• Work with Public Safety to promote a pedestrian-friendly and bike-friendly campus through education, awareness raising, and events</li> <li>• Work with Communications and Marketing to design and roll-out a PR campaign advertising BC's efforts to "go green" in transportation</li> <li>• Make sure that the campus community is aware that motorcycles take up much less space, in addition to being more fuel-efficient and less polluting, and motorcycle parking permits cost \$50, about 1/3 of a car parking permit.</li> </ul>	

26.	Goal: Reduce Carbon/fuel emissions of the college fleet by utilizing alternative fuel/hybrid technology vehicles		
	Timeline	August 2010	
	Goal summary	Objective	Purchase/convert/utilize alternative fuel/hybrid technology vehicles
		Metrics for success	Reduction in standard fuel usage
		Baseline	Annual Reporting on fuel volume purchased (2005)
		Costs & Funding	TBD
		Implementing agents	Public Safety Facilities Brooklyn College Administration CUNY NYSERDA
	Actions to be taken	<ul style="list-style-type: none"> <li>• Purchase alternate fuel/Hybrid vehicles when replacing on road vehicles</li> <li>• Purchase 9 electric cart and 4 electric Mega Vans as alternate use off road vehicles for facilities operations, central routing and ITS</li> <li>• Look into city agencies that operate E85 Ethanol provision service and seek to develop partnerships with them.</li> <li>• Investigate procedure to acquire/install "Alternate Fuel" fueling station on campus</li> </ul>	

27.

Goal: Reduce fuel/carbon emissions by encouraging use of Public Transit		
Timeline	Sept. 2010 - August 2013	
Goal summary	Objective	Reduction in carbon emissions
	Metrics for success	TBD
	Baseline	TBD
	Costs & Funding	TBD
	Implementing agents	CUNY Central MTA Faculty, students, staff
Actions to be taken	<ul style="list-style-type: none"> <li>• In partnership with the MTA and CUNY Central, investigate: <ul style="list-style-type: none"> <li>◦ Offering free or discounted transit passes to college students (similar to NYCDOE's high school transit pass program) and Pretax Transit Checks to CUNY Employees</li> <li>◦ Increasing efficiency and regularity of service of subway and bus service,</li> <li>◦ Providing additional fuel efficient buses (each bus presumably takes about 40 cars off the road)</li> <li>◦ Getting the express subway lines B and D to stop at Ave H</li> </ul> </li> <li>• Investigate/evaluate operating a BC run shuttle service between BC, Kingsborough and Medgar Evers</li> <li>• Investigate/evaluate providing/operating a fuel efficient BC shuttle/bus service around campus perimeter to include Newkirk subway stop and new residence hall</li> <li>• Investigate/evaluate possibility of enhancing/adding access to public transit in the area by possibly utilizing local MTA train tracks currently being used for freight shipments only.</li> </ul>	

28

Goal: Reduce fuel/carbon emissions by encouraging/enhancing bicycling access through on-campus interventions		
Timeline	August 2010	
Goal summary	Objective	Reduction in Fuel Emissions through increase in bicycling
	Metrics for success	Biking/bike rack usage survey
	Baseline	Initial bike rack usage/biking survey Fall of 2010
	Costs & Funding	TBD
	Implementing agents	Transportation Alternatives Excelsior and Kingsman Communications and Marketing Department
Actions to be taken	<ul style="list-style-type: none"> <li>• Encourage bicycling by adding and maintaining bicycle racks in safe, well-lit, accessible locations that are easily monitored by security officers.</li> <li>• Conduct outreach and safety awareness raising by placing ads on TV screens, ads/articles in Excelsior and Kingsman papers.</li> <li>• Partner with city-wide/Brooklyn community organizations/nonprofits to conduct on-campus workshops, information referrals, online links and signage concerning bike safety education.</li> <li>• Update Campus site maps located in the metal kiosks around campus to reflect current accurate bike rack locations</li> <li>• Train and inform campus security officers to know where all back racks are located.</li> <li>• Explore developing a bike-sharing program.</li> </ul>	

29.	Goal: Reduce fuel/carbon emissions and increase bicycling through partnerships with off-campus entities		
	Timeline	Sept. 2010- August 2013	
	Goal summary	Objective	Encourage/enhance bicycling access to and from campus
		Metrics for success	Biking/bike rack usage survey
		Baseline	Initial bike rack usage/biking survey Fall of 2010
		Costs & Funding	TBD
		Implementing agents	Transportation Alternatives NYC Department Of Transportation CUNY Central Public Safety office Brooklyn Borough President's Office Brooklynbybike.com Bicyclesafe.com
	Actions to be taken	<ul style="list-style-type: none"> <li>• Partner with Transportation Alternatives to promote bike riding to and from the college</li> <li>• Work with NYCDOT to designate a “protected” bike lane on Bedford Ave.</li> <li>• Partner with city-wide/Brooklyn community organizations/nonprofits to enhance bike safety education.</li> </ul>	

30.	Goal: Reduce Carbon/fuel emissions through carpooling		
	Timeline	Sept. 2010 - August 2013	
	Goal summary	Objective	Encourage and enhance carpooling to and from the campus
		Metrics for success	Parking/carpooling survey
		Baseline	Initial Parking/ carpooling survey Fall of 2010
		Costs & Funding	
		Implementing agents	Human Resources Office ITS
	Actions to be taken	<ul style="list-style-type: none"> <li>• Set up a car-pooling page on the BC website making it easier for people to find carpool partners (similar to what was done during the transit strike).</li> <li>• Investigate use of technologies such as Twitter or Texting to keep people informed.</li> <li>• Examine incentives provided to the campus community for carpooling (i.e. reduced parking fee)</li> </ul>	

## Outreach and Education

31.	Goal: Enhance student engagement, training in and awareness of sustainability issues on and off campus and green jobs.	
Timeline	By August 2010	
Goal summary	Objective	Increase number of students participating in “green jobs” career counseling, job fair, internships, etc,
	Metrics for success	Numbers of students participating/placed at internships
	Baseline	TBD
	Costs & Funding	TBD
	Implementing agents	Magner Center College NOW Provost’s Task Force on Sustainability Business Economics Department Small Business Center at SUBO Student Affairs NYPIRG Brooklyn College Student Sustainability Club Government and Community Relations Community Board
Actions to be taken	<ul style="list-style-type: none"> <li>Correlate college-wide Sustainability-related coursework with focused internships and career counseling.</li> <li>Enable students to explore sustainability issues in the workplace through “green” internships and public service identified and facilitated by the Magner Center. Educate students through events, workforce development and facilitating relationships with “green” businesses.</li> <li>Support networking of high school and college students around critical awareness of sustainability-related issues through College Now and other Brooklyn College Departments/programs and events.</li> </ul>	

32.

Goal: Enhance student engagement, training in and awareness of sustainability issues on and off campus and green jobs.		
Timeline	Sept. 2010 - August 2013	
Goal summary	Objective	Increase student interest and involvement in “green projects.”
	Metrics for success	Amount of money raised and number of projects funded
	Baseline	TBD
	Costs & Funding	TBD
	Implementing agents	Magner Center College NOW Provost’s Task Force on Sustainability Business Economics Department Small Business Center at SUBO Student Affairs NYPIRG Brooklyn College Student Sustainability Club Government and Community Relations Brooklyn Navy Yard Community Board
Actions to be taken	<ul style="list-style-type: none"> <li>Investigate awarding students honors credits for exchanges, partnerships and collaborations with entities outside Brooklyn College (such as the Parks Department, for example) whose sustainability goals align with those of the College.</li> <li>Evaluate initiating a student-run/student-led sustainability grant program through which students can pick “green” proposals to fund (for example, neighborhood outreach on recycling).</li> </ul>	

33.

Goal: Encourage professional development and learning about innovations in sustainability		
Timeline	Ongoing	
Goal summary	Objective	Increase understanding and application of best sustainable practices on campus
	Metrics for success	TBD
	Baseline	TBD
	Costs & Funding	TBD
	Implementing agents	Sustainability Coordinator(s), Campus Liaisons, and other campus stakeholders
Actions to be taken	<ul style="list-style-type: none"> <li>Encourage students, staff and faculty to attend sustainability-related events and conferences on and off campus</li> <li>Develop a way to share findings and best practices with other students, staff and faculty on campus</li> </ul>	



34.	Goal: Enhance Awareness through campus outreach about Brooklyn College’s activities to “go green”. Provide ongoing support to initiatives included in CUNY’s 10-Year sustainability mandate.		
Timeline	By August 2010		
Goal summary	Objective	Students, Faculty and Staff more aware and educated about sustainability in general and efforts on Brooklyn College Campus specifically	
	Metrics for success	Surveys?	
	Baseline	Surveys?	
	Costs & Funding	TBD	
	Implementing agents	Communications and Marketing Office Film Department TV/Radio Department	
Actions to be taken	<ul style="list-style-type: none"><li>• Hold “Brown Bag Lunches” to incorporate Sustainability into classes and to conduct various activities</li><li>• Work with Communications and Marketing to design and roll-out a sustainability PR campaign</li><li>• Establish a Brooklyn College Sustainability website as a central clearinghouse for all sustainability-related activities, events, classes and research happening on campus. Establish the site as a resource for information, links and tips on sustainability generally.</li></ul>		

35.	Goal: Enhance Awareness through campus outreach about Brooklyn College’s activities to “go green”. Provide ongoing support to initiatives included in CUNY’s 10-Year sustainability mandate.		
Timeline	August 2010		
Goal summary	Objective	Students, Faculty and Staff more aware and educated about sustainability in general and efforts on Brooklyn College Campus specifically	
	Metrics for success	Survey	
	Baseline	Survey	
	Costs & Funding	TBD	
	Implementing agents	Communications and Marketing Office Film Department TV/Radio Department	
Actions to be taken	<ul style="list-style-type: none"><li>• Invite students/interns from Communications and Marketing, Film, TV, or Radio to engage in awareness-raising campaigns on campus</li><li>• Coordinated with the Center for the Study of Brooklyn and Brooklyn College’s Sustainability Council to convene Brooklyn College’s Sustainability Visioning Session series, engaging more than 100 students, staff and faculty to brainstorm on greening the College’s campus.</li><li>• Investigate establishing a Full Time Sustainability Coordinator to manage Sustainability efforts on Brooklyn College’s campus.</li><li>• Investigate establishing a paid internship to assist with Sustainability efforts on Brooklyn College’s campus.</li></ul>		

36.

Goal: Enhance and promote sustainability in curriculum and faculty research.		
Timeline	Sept. 2010 - August 2013	
Goal summary	Objective	Support and monitor new and ongoing activities in Sustainability-related curriculum and faculty research. Ensure that students, faculty and staff are aware of the mandate and the College's plan and are "bought in"/engaged with the ongoing process and subsequent implementation
	Metrics for success	TBD
	Baseline	TBD
	Costs & Funding	TBD
	Implementing agents	Provost's Task Force on Sustainability Center for the Study of Brooklyn Brooklyn College Sustainability Coordinator(s) Brooklyn College Sustainability Liaisons
Actions to be taken	Convene Provost's Task Force on Sustainability to plan events, compile an inventory of curriculum and faculty teaching or researching on sustainability, and evaluate existing academic programs in an effort to enhance sustainability education on campus	