

Green Spaces

How they can benefit you

Students for Campus Life Improvement
Dennis, Mohammad, Kendrick, Isaias

Importance of Green Spaces

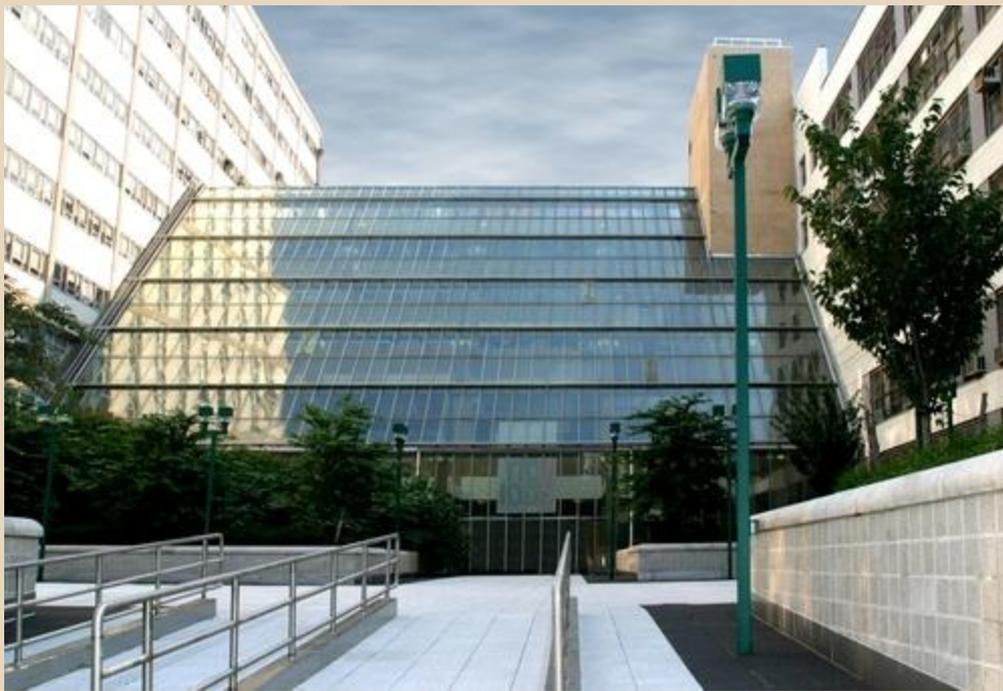
- Students who used the campus green spaces more frequently perceived their quality of life as higher when compared with those students who used green spaces less frequently.
- Undergraduate student use of campus green spaces was correlated with the individual areas of overall quality of life, the affective domain of quality of life of university students, and, specifically, the total positive affective dimension and the interaction with students dimension.
- Results suggest campus green spaces and their availability could potentially be a contributing factor in student retention, particularly among students new to the university (i.e., freshmen).
- Student use of campus green spaces did not appear to benefit any particular gender or ethnic group more than others.

The Relationship between Student Use of Green Spaces and Perceptions of Quality of Life

- We have found that students' perception of their overall academic experience and the campus environment is related to academic accomplishment.
- Additionally, we found that the designed environment of the university can influence the degree of stress students may feel. The main objective of our group is to investigate the relationship between undergraduate university student use of campus green spaces and their perceptions of quality of life at New York City College of Technology.

Green Spaces





Entrance to the Atrium Building

- Mostly empty
- Used for events
- Known to all students

http://colleges.usnews.rankingsandreviews.com/img/college-photo_8094.jpg

Opportunities



http://colleges.usnews.rankingsandreviews.com/img/college-photo_8094..jpg

Entrance to the Voorhees Building

- Clear gathering spot
- Highly visible
- Improves surrounding areas

Opportunities

Possible trees for outdoor spaces

Red Oak

http://upload.wikimedia.org/wikipedia/commons/4/47/Image_Northern_Red_Oak_Dresden06.JPG



Black Ash

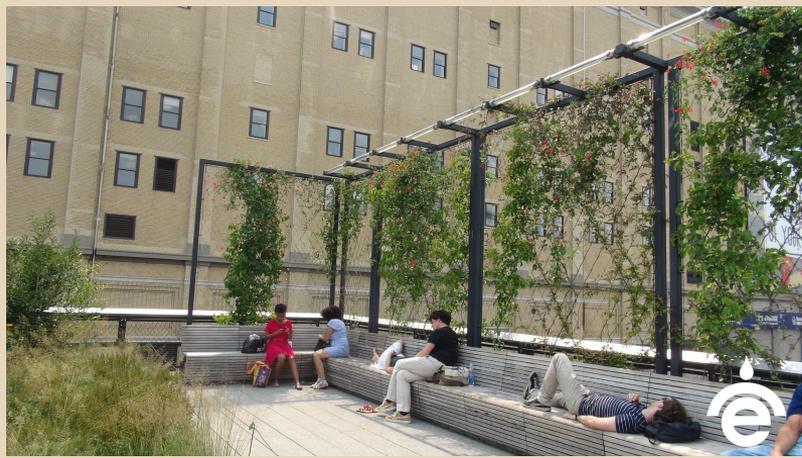
<http://www.nyis.info/images/5110042.jpg>



American Holly

https://store.speedtree.com/site-assets/uploads/2013/11/140_AmericanHolly_Shrub.jpg





Non-Invasive option

Green Walls

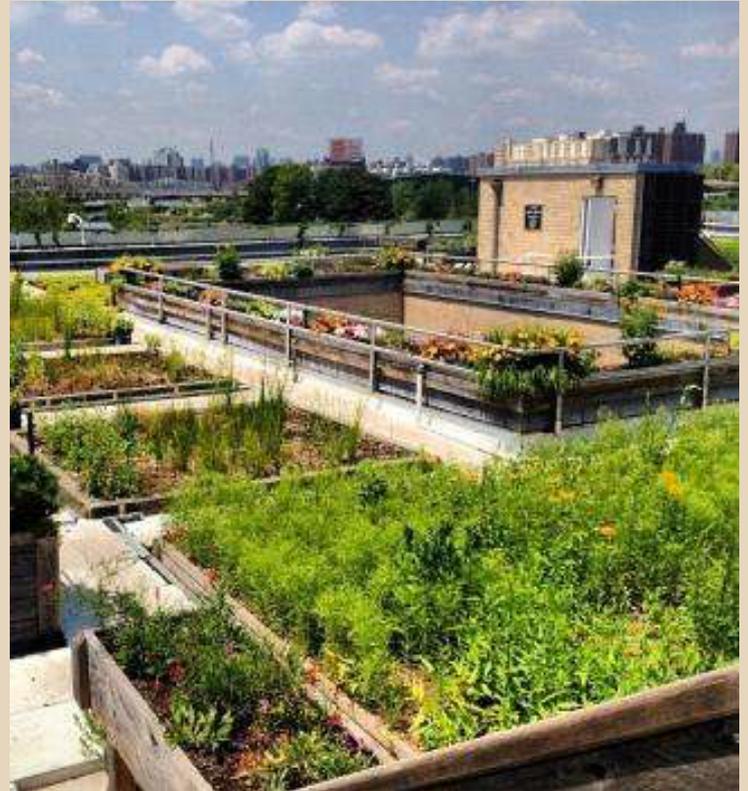
- Fills up barren walls
- Self-contained
- Requires only once a year check ups
- Has it's own irrigation system that requires specialized check-ups
- Price range : \$100- \$300

Some Companies

- LiveWall
- Gsky
- The Living Wall Company
- Sage Vertical Gardens

Roof Gardens

- Can be added on top of existing roofs
- Reduces stormwater runoff
- Government subsidies
- Green roofs cool the surrounding air and thereby reduce the temperature of the mass of hot air that hovers over cities during the summer. When the temperature outside is 90° F, a conventional black roof's surface temperature is over 150° F, while a green roof's temperature will vary from 90- 95° F
- Green roofs reduce the transmission of noise by 5 to 45 decibels



Costs

Plants

- Aloe Vera: \$9.99 per plant
- Ficus Pandurata Bush: \$16.98 per plant
- Paddie Plant: \$15.98 per plant
- Spathiphyllum Peace Lily: \$12.98 per plant

For interior spaces

Grass

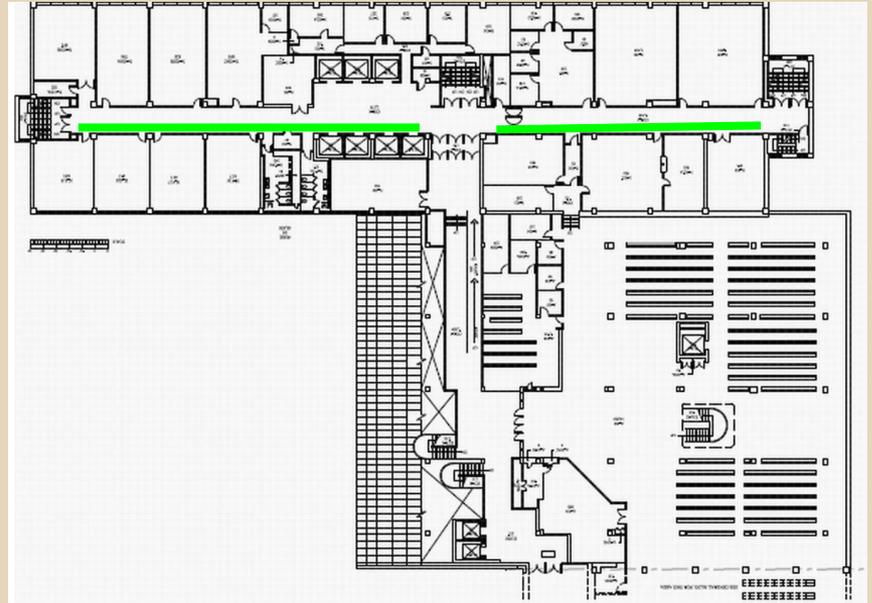
- Hydroseed: \$.50-1.00 per sq.ft
- Sod: \$3.50 per sq.ft
- Artificial turf: \$8-\$12 per sq.ft
- Backyard putting greens: \$14 per sq.ft
- Sprinkler systems for turf: \$2 per sq.ft

For exterior spaces

Possible Locations for Interior Green Spaces

Interior Green spaces do not need to take up a lot of space. If placed in a row in between doors on one wall, it will be sufficient.

- Easiest manner in which to integrate into an urban environment
- Improves air quality in a highly transited area
- only needs to be on one side
- Minimal maintenance
- Can be placed in same locations on each floor



Possible Locations for Interior Green Spaces

Staircases in the Namm building are highly used, and have little to no air circulation despite this. In order to improve this, plants can be placed on the window sills, and in that manner keep the flow of circulation constant

- Helps air quality
- Not-Invasive
- Low maintenance



Planters spread out through the Campus floors

- Improves air quality
- Unused space occupied efficiently
- Brightens space up



Taken by Mohammad Hassan.

Opportunities

Maintenance

The Greenspace Management Division oversees the daily maintenance of New York City College of Technology esplanades, green spaces, and urban forest. The division also maintains greenspace for certain city facilities, including New York Public Libraries and Health Department Multi-Service Centers.

The services/branches we would use are :

- Grounds Maintenance
 - Crews are responsible for grass mowing, brush clearing, litter removal and the maintenance of COH parkland and greenspace. All parks are de-littered on a 3 day cycle.
- The Horticulture Section
 - Crews oversee and maintain the flower beds and gardens located on H.P.A.R.D. properties. Horticulturists operate the Memorial Park Greenhouse to cultivate plants for use in park flower beds.
- Water consumption increases depending on the plant that is used

Costs

Although there will be high starting costs, the prices will eventually even out. ONce initial installation occurs, the only real cost for the interior spaces will be the occasional watering of the plants, based on the plant chosen.

The option of plants we have provided can be easily replaced, and are able to survive in an urban environment. For example, Aloe Vera only needs to be watered when the soil feels dry, which may take a few days in order for this to occur.

Overall Benefits

- Better air quality
- Increases property value
- Improves the quality of living
- The plants on a green roof convert atmospheric carbon dioxide, a greenhouse gas, into organic compound by using energy from sunlight
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