

# Technology & Communication Infrastructures

A look at eWaste, security, and cell towers  
at SUNY Purchase

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One  
eWaste & Security

Two  
Security Systems

Three  
Cell Towers



# eWaste & Security

There are two main issues when upgrading technology; How to dispose of it and how to protect stored security. When SUNY Purchase upgrades to new technology, the old computers, servers, and other tech are recycled. This eWaste, is then shipped to Freeport, NY (Long Island).

SUNY Purchase pays eWorks to properly dispose of their eWaste. eWorks is a nonprofit that creates employment opportunities for people with developmental and intellectual disabilities.

eWorks either resales the technology in its entirety or disassembles it, so the parts can be sold whole sale (see photo on opposite page). A portion of these profits are also sent back to each respective client. They take serious precautions to protect security by erasing every hard drive three times, using two different methods.

eWorks not only serves the tri-state but the entire nation, with one of their largest clients being Cablevision and Comcast. They also serve local police enforcement agencies, hospitals, banks, and other universities.

eWaste is an increasing large problem and eWorks is solving that problem and they're doing it domestically, whereas most eWaste is sent internationally to be processed dangerously.



Technology is kept organized by always being bundled and labeled to ensure that data and privacy are protected the whole time they are being processed.





Computers that can be resold are wiped three times of all data and are tested for quality.



Google servers, identical to the yellow one below, are becoming obsolete as Google phases them out and requires companies and organizations to use Google's own data centers. Even SUNY Purchase will be sending their Google server here shortly.





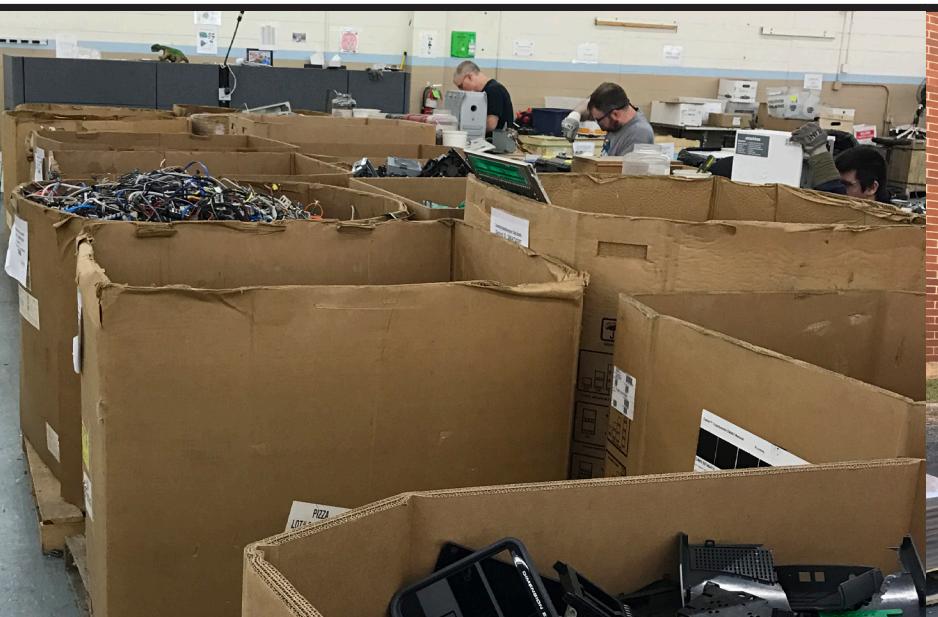
(Above) Cablevision's "Optimum WiFi" routers.

(Below) Workers sort various components into cardboard bins to be sold wholesale.



(Above) Apple computer components are incredibly valuable and sell very quickly.

(Below) TVs, flat and traditional, are not very valuable and mostly get recycled for plastic. Plastic is bundled together as seen below, to the right of the traditional TVs.



# Security Systems

Communication plays a large role in the security infrastructure on campus.

The following collage shows pictures of security cameras in various areas around campus.

The footage from these cameras is looked at only when an incident has been reported, and can only be accessed by the campus police.

According to an inside source, more locations on campus are to have security cameras installed in the near future.

The cameras on the right hand side are color coded and grouped according to location. Their corresponding locations are written on the left-hand side.

There is something quite satisfying about taking and looking at pictures of a security camera. These devices are meant to be thought of as watching us all the time and documenting our every move.

However, in this field guide we are the ones recording and documenting them.



Music  
Building

Gym 2002

Outside  
LIU  
Hudson  
Building

Gym 2001

Campus  
Technology  
Services

Social science  
building hallway  
Floor 1

Social science  
lecture hall  
Floor 1

Basement  
staircase of  
social science

Library  
Entrance

Humanities  
Building  
Floor 1

Library  
Hallway

Student  
Services  
Roof  
  
Student  
Services  
Inside Roof  
Left

Student  
Services  
Floor 1

Student  
Services  
Inside Roof  
Right

On the Purchase College campus, the two locations that have functioning digital card security systems are the Campus Technology Center staff hallway and the humanities building classrooms.

In the Humanities Building, all the systems are connected to each other. New members can automatically be added and recognized by all devices in the system. However, the CTS system is not all connected. Each new member will have to be manually added to each device.

Fort Awesome is another building that was given a digital card swipe system, however it is not currently functional and thus will be omitted from this guide.

The Humanities Building system requires only a card swipe at the door.



The Campus Technology Center offices require a card swipe and an identification number, plus a regular key.

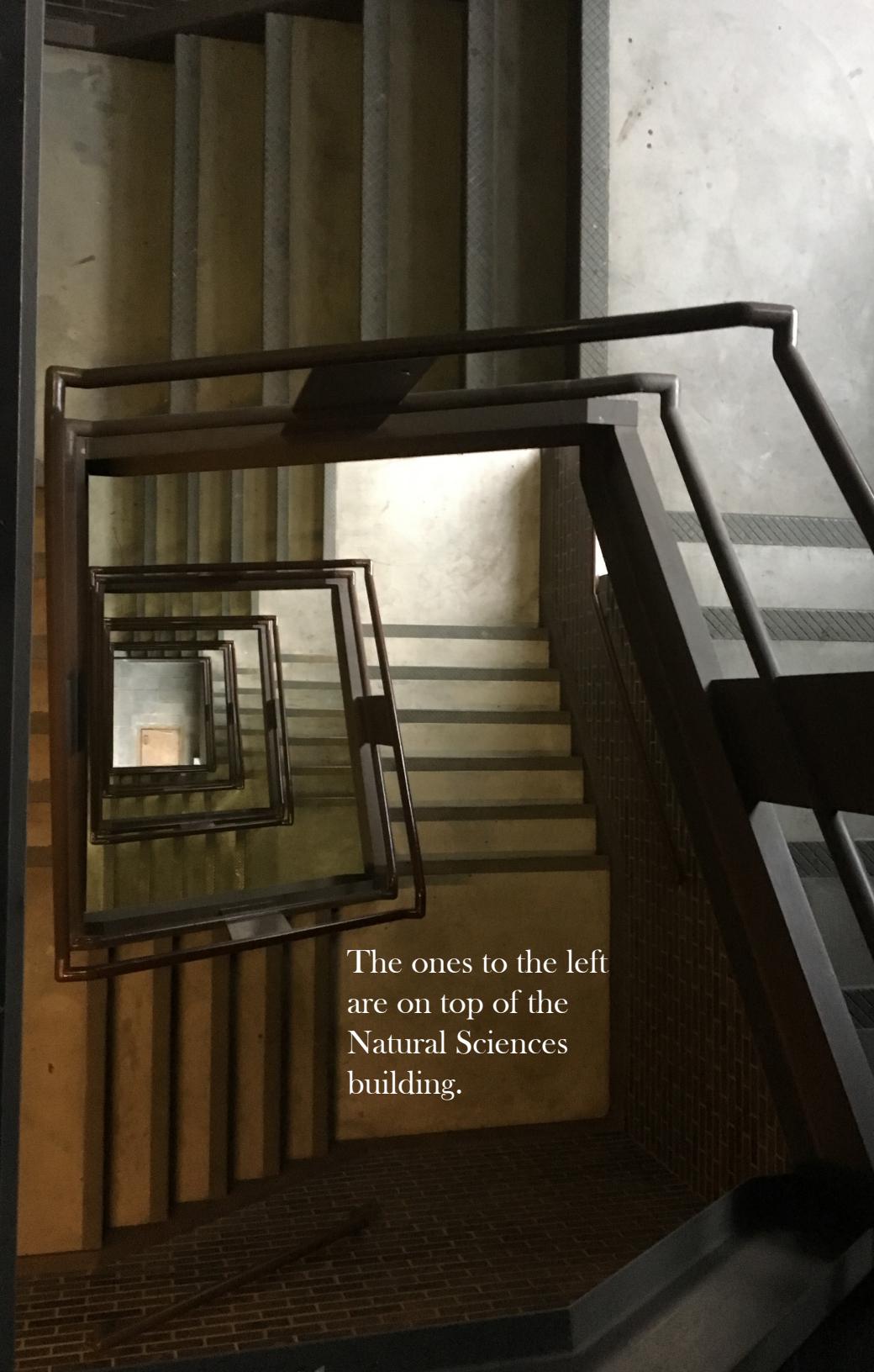


Have you seen these around?



## Cell Towers

SUNY Purchase has 3 cell towers (Verizon, AT&T, and Sprint) & 3 antennas on campus ( 1 UPD and 2 Chartwells).



The ones to the left  
are on top of the  
Natural Sciences  
building.

# INFORMATION

This is a Verizon Wireless

Antenna Site

42(Ny)-14(W.Nyack)-244(Purchase College)  
PURCHASE COLLEGE

Site ID: \_\_\_\_\_

For information, call:

**800-264-6620**



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Scan this QR code with your smartphone to reorder SKU SK12V/SID



It's also owned by Verizon and can be dangerous!

## GUIDELINES FOR WORKING IN RADIOFREQUENCY ENVIRONMENTS

- ⚠ All personnel should have electromagnetic energy (EME) awareness training.
- ⚠ All personnel entering this site must be authorized.
- ⚠ Obey all posted signs.
- ⚠ Assume all antennas are active.
- ⚠ Before working on antennas, notify owners and disable appropriate transmitters.
- ⚠ Maintain minimum 3 feet clearance from all antennas.
- ⚠ Do not stop in front of antennas.
- ⚠ Use personal RF monitors while working near antennas.
- ⚠ Never operate transmitters without shields during normal operation.
- ⚠ Do not operate base station antennas in equipment room.

This gorgeous “tree”, owned by T-Mobile, can be seen on the nearby Hutchinson River Parkway.

Photo courtesy of Flickr

