



**Office of Institutional Research,  
Assessment and Planning**

**MEMORANDUM**

To: Mr. Brian Cohen  
Vice Chancellor and University Chief Information Officer

From: Dr. Richard Fox  
Vice President for Institutional Effectiveness

Re: Kingsborough 2017-2018 Student Technology Fee Plan

Date: April 6, 2017

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Attached please find Kingsborough Community College's Student Technology Fee Plan for 2017-2018 as approved by the President's Advisory Committee. We believe it complies with the guidelines set for this process, and for the plan.

I would like to express my appreciation to the members of the committee for their thoughtful contributions. If there any questions regarding the plan, please let me know.

c. President Farley Herzek  
Provost Joanne Russell  
Vice President Ed Rios  
Mr. Asif Hussain, AVP/CIO  
Technology Fee Advisory Committee



Kingsborough Community College  
Student Technology Fee Plan  
2017-2018

April, 2017

**Kingsborough Community College  
Student Technology Fee Plan  
2017-2018**

**Overview:**

Kingsborough Community College’s Student Technology Fee Plan for 2017-2018 was designed by the President’s Advisory Committee with input from faculty, students, and administrators and prioritizes the delivery of instruction via investments in student network infrastructure, desktop and mobile platforms, classroom and laboratory settings, innovative instructional pedagogies, assistive technologies, and related instructional supports.

The main objectives of this plan are in alignment with a major theme identified in the College’s Strategic Priorities, which considers technology as integrated into other functional priorities: Developmental education, academic programs, and student support.

Additionally, the areas identified in the Student Technology Fee Plan 2017-2018 reflect the vision of the College’s Information Technology Services Strategic Plan, which calls for efforts to “Expand the use of instructional technologies with continued investment in smart classrooms, tools such as lecture capture, and growth in mobile support for instruction.” This plan is in the process of being updated.

This document reviews the accomplishments achieved during the 2016-2017 year, providing accountability for the funds expended, and presents the priorities for anticipated expenditures for the 2017-2018 year.

**Committee Members: 5 of the 15 members (33%) are students.** While they are still well-represented, the proportion of committee members who are students is a little lower this year, because we added additional faculty to the committee, at their request. This included the faculty director of the recently created Kingsborough Center for e-Learning.

Dr. Richard Fox – Committee Chair, Vice President for Institutional Effectiveness

Professor Deborah Berhanu – Department of Physical Sciences

Professor Gail Larkin – Department of Nursing

Mr. Mark Vilc – Student Government Representative

Professor Tanya Johnson – Department of Tourism and Hospitality

Mr. Ed Rios – Vice President for Finance and Administration

Mr. Asif Hussain – Assistant Vice President / Chief Information Officer

Ms. Lanasia Vernau – Student Government Representative

Mr. Olalekan Shonowo – Student Government Representative

Ms. Janine Palludan – Office of Academic Affairs

Ms. Shareen Thomas – Student Government Representative

Ms. Raquel Aviva – Student Government Representative

Mr. Mark Eaton –Library Department

Professor Loretta Taras – Department of Biological Sciences and Director of Kingsborough Center for e-Learning

Professor Shawna Brandle – Department of History, Philosophy, and Political Science

## **Overview of Projects and Initiatives Supported for 2017-2018:**

[Details and budgets are shown starting on pg. 31 \[ctrl-click here to jump to details\]](#)

- Augmentation / Maintenance of Networking Infrastructure
- Augmentation of Connectivity
- Assistive Technology Augmentation
- Blackboard – Mobile
- Business Continuity
- Class Capture System and Online Video Depository
- Computerization of Classrooms
- E-Portfolio (Digication)
- Instructional Software Upgrades
- Library Databases and eBooks
- Print Management Solution (Pharos)
- Replacement of Computers in Labs
- Replacement of Printers
- Replacement of Servers
- Smart Class Rooms
- Smart Labs
- Upgrade – Expansion and Enhancement of Labs
- Tablets / Laptops for Students
- Video in Class Rooms and Labs
- Virtual Desktop Initiative
- Wireless Expansion and Upgrade
- Wireless Printing

# ACCOMPLISHMENTS -TECHNOLOGY FEE 2016-2017

The following section reviews the plans put forward for 2016-2017 and provides a summary of progress we have made on each project **in blue highlighting**.

## **Augmentation /Maintenance of Networking Infrastructure Project (Proj # 1)**

The number of devices (whether BYOD or from installation base) is increasing at the rate of 25% per year; the infrastructure setup six years ago, though still reliable, is showing signs of strain. We plan for the coming year to increase our installed base by another 6 percent just in thin clients in class room. We need to replace out-of-warranty switches and upgrade them to 10 GB backbone. Due to the fact that we now have additional bandwidth we need to remove bottlenecks in the network to ensure the benefit of increased bandwidth is directed to the end points.

**The budget allocation for this project is \$ 48,000.**

### **1. Switch Hardware changed/upgraded to allow for additional network interfaces and/or PoE+ capability for Wireless access point upgrades:**

- T306
- E Cluster
- F Cluster
- V220
- V215
- V224 (Hosts V223/225)
- L103
- L502
- L702
- M224
- U219
- G202
- A201
- M242
- M424

### **2. Switch Closet Uplinks moved to X8 (increased bandwidth) that host podium machines, thin clients, and wireless access points:**

- C Cluster
- D Cluster
- F Cluster
- A204
- M108
- S211
- T306
- T8108
- V220

-P101  
-M224  
-M242

### **Augmentation of Connectivity Project (Proj # 2)**

In order to augment the internet connectivity Kingsborough is leveraging alternate access to the internet. This provides us with direct connection to internet as well as bigger and faster access.

**The budget allocation for this project is \$ 78,000.**

### **Bandwidth utilization.**

### **Blackboard Mobile Project (Proj # 3)**

Blackboard Mobile Central is a comprehensive suite of campus services targeting students, faculty, administrators, alumni and our broader community on both native and mobile web platforms. The architecture was designed with scalability in mind. Considering that it is impossible to truly plan for the vast array of devices to come in the future, we have built a central service to house data in a way that can be repurposed across all platforms/devices. In this way iPhone®, Android® and forthcoming mobile operating systems will access the Blackboard Mobile Central application through the same central service on the backend. The first set of apps was released in January 2013; we will be adding additional apps and continue to maintain current apps.

**The total budget allocation for this is \$46,500.**

### **Business Continuity Project (Proj # 4)**

In order to support 24/7 operations and to reduce downtime we have embarked on a project to augment the infrastructure and provide redundancy and increase fault tolerances where possible. We are adding UPS to support the network switches in labs. The cost includes equipment and redundant fiber connectivity to IDF closets. We need to ensure that all our labs and IDF which support instructional technology are dual homed and can continue operation irrespective of loss of a core switch or data center.

**The total Budget allocation is \$ 50,000.**

#### **1. New UPS installed in the following cabinets:**

M224  
M114

#### **2. New UPS webcards installed in UPS:**

M109  
M110

M111  
M114  
M115  
M125  
M159  
L304

3. New Battery installed in the following classrooms:

M111  
L103  
L116  
L304

**Class Capture System (Proj # 5)**

After looking at various systems Yuja was selected as the system of choice for class capture. We would be extending this offering to more faculty and use it as a DR solution as well so that in case of emergency, recorded classes can be published for student use. The Yuja software can also be used for streaming live content which provides the opportunity to use it for more than class capture.

**Total Budget Allocation is \$15,000.**

**Computerization of Classrooms Project (Proj # 6)**

In order to meet the growing need for computers labs and using computers for instructional purposes, we have embarked on a project to deploy computers in classrooms. We are planning on adding over 50 wireless thin clients and tablets. The total budget allocation for this project including hardware, electrical work, deployment of furniture and construction needed to convert the current lecture style classrooms to dual-purpose rooms and installation is \$150,000.

The following rooms are to be part of this project.

<u>Room</u>	<u>Existing Seats*</u>
T-4111	65
T-4206	50

\*Seat count  
may change  
with  
modifications

1) Both rooms in T4 have been outfitted with new furniture and thin clients

### **E-Portfolio (Digitation) Project (Proj # 7)**

- E-Portfolios are platforms for students, teachers, alumni, and professionals to showcase their work and ideas. They are archives of learning, discovery, progress, achievement, and reflection. A few uses of E-Portfolios include assessment, admissions, interactive resumes, student galleries, teacher resource sites, collaborative project portfolios, and research presentations. KCC plans on using Digitation for 1,100 students and faculty. **Total Budget allocation is \$9,000.**

### **Instructional Software Upgrade Project (Proj #8)**

- Upgrade Adobe software to the latest version in all labs.
- Upgrade Animation software to the latest version in MAC graphic labs.
- Upgrade AutoCAD software to the latest version in all Labs.
- Upgrade Tandberg software in Language Lab L-102G.
- Upgrade Virtualization software for academic servers.
- Upgrade Culinary Science Software in U-118 and M-246 labs.
- Upgrade NetOp Software in all labs.
- Upgrade Deepfreeze software in all labs.

**Total budget allocation is \$75,000.**

#### Windows 10 Upgrade

All of the Academic Labs in the MAC building, science building, academic village building, testing center, and all open labs where Pharos printing is utilized have had the operating systems upgraded to Windows 10. Open labs include but are not limited to L100ABCD, L200, L300, L218, L304, L516, and the CyberLounge.

Windows 10 experience for people who use the same technologies at home and in their daily lives. It takes advantage of the boost in performance on specialized software packages.

#### Netop Upgrade

All machines with Windows 10 have had this upgrade as it was required by the publisher to support Windows 10.

Collaboration is regular among teachers and students, which takes place inside within this software. The upgraded software makes better use of newer Windows 10 security settings to facilitate a better classroom learning experience.

### Autocad Upgrade

The Academic Sciences labs S214 and S225 have been upgraded to include Autocad 2016. S214 has had Autodesk inventor added in as a request from a professor.

To keep up with the latest in demand market version, the upgrade provides students with a newer interface, increased rendering speed, and an easier user environment.

### Student File Server for MCB

The radio station will have a shared work space for its students to work on shared files among them and the professor.

### Inside

Yuja implementation is being used as a class capture application to provide KBCC students the opportunity to use the professors referred content, helping studying to be more efficient.

A newly designed tutorial appointment and recordkeeping application is an initiative for spring 2017 that will have KBCC students book tutorial services for courses being provided by the Tutorial & Academic Support Center.

College discovery is an application that will be providing incoming Kingsborough freshman students the opportunity to use the inside portal to book appointments with counselors and seek academic assistance.

### **Library Databases and eBooks (Proj # 9)**

Procuring various titles for library databases as requested by Academic Services.

**Total budget allocation \$ 30,000.**

<b>LIBRARY DATABASES TO BE PAID FROM TECH FEE MONEY</b>		<b>2-Sep-16</b>	<b>\$30,000.00</b>
<b>VENDOR:</b>	<b>Database Title</b>	<b>Cost</b>	<b>Renewal Term</b>
<b>Gale/CENGAGE</b>	<i>Master order</i>	<b>\$29,305.00</b>	
<b>Learning</b>	Literary Criticism online		Standing Order*
	Lit. Crit. Handling Fees		Standing Order
	Dictionary of Literary Biography		Standing Order
	Gale Digital Collection Hosting fee		1/31/17-1/30/18
	19th Century Literary Criticism		Standing Order

	20th Century Literary Criticism		Standing Order
	Short Story Criticism		Standing Order
	Nursing Resource Center		9/1/2016-8/31/2017
	Smithsonian Magazine Current		3/11/2017-3/10/18
	Smithsonian Hosting Fee		Standing Order
<b>Career Cruising</b>	Career Cruising <i>Single Requisition</i>	<b>\$695.00</b>	1/1/17-12/31/17
*Standing orders are automatically updated in our database and invoiced as they are published.			

**Print Management Solution (Pharos) Project (Proj # 10)**

- Support for the recently deployed pay-for-print system with support for workstation reservations to additional open labs. Expansion of remote printing from home and wireless stations. Expanding reservation facilities to other areas.
- **Total budget allocation \$ 10,000.**

**Replacement of Computers in Labs (Proj # 11)**

- Replace 357 computers in the labs based on 4-year refresh cycle.
- Replace 66 MAC computers in Graphic Labs based on 4-year refresh cycle.

Room	# of PC's	Model	Warranty End Date	Type of warranty	PC	Apples
L-100-A	2	DELL Optiplex 755	06/2013		2	
L-100-D	1	DELL Optiplex 760	01/2015		1	
L-102-G	1	DELL Optiplex 760	08/2013	Next Business Day Support	1	
L-118-E	9	DELL Optiplex 780	4/2011	Next Business Day Support	9	
L-118-E	1	DELL OptiPlex 790	5/2016	Next Business Day Support	1	
L-219-S	8	HP Z210 - XM856AV	03/2017*	Next Business Day Onsite, excl. external / HWM Onsite	8	
L-304	30	DELL Optiplex 760	Multiple dates all expired*	Next Business Day Support	30	
L-705	7	DELL OptiPlex 790	5/2016	Next Business Day Support	7	
M-101	15	DELL Optiplex 760	6/2014	Next Business Day Support	15	
M-108	36	DELL Optiplex 760	6/2014	Next Business Day Support	36	
M-118	31	HP Z210 - XM856AV	11/2016		31	
M-149	7	DELL Optiplex 760	08/2014	Next Business Day Support	7	
M-322	30	HP Z210 - XM856AV	03/2017		30	
M-350	2	DELL Optiplex 760	8/2013 & 8/2014	Next Business Day Support	2	
	1	DELL Optiplex 755	6/2013	Next Business Day Support	1	
S-135	7	DELL Optiplex 780	12/2015	Next Business Day Support	7	
S-160	1	21.5 ", Mid 2011	Expired			1
	1	21.5-inch, Mid 2010	Expired			1
	4	DELL Optiplex 780	12/2015	Next Business Day Support	4	

T-236	33	DELL Optiplex 760	8/2013 & 8/2014	Next Business Day Support	33	
T-4159	27	DELL Optiplex 760	Multiple dates all expired*	Next Business Day Support	27	
T4264	12	DELL Optiplex 780	12/2016	Next Business Day Support	12	
T-505	1	Apple 21.5-inch, Late 2012	12/2016			1
T-506	2	Apple 21.5-inch, Late 2012	12/2016			2
	2	Apple 21.5-inch, Late 2013	09/2017			2
T-508	1	Apple 21.5-inch, Late 2012	12/2016			1
	3	Apple 21.5-inch, Late 2013	09/2017			3
T-516	26	Apple 21.5-inch, Late 2012	12/2016			26
T-522	25	Apple 21.5-inch, Late 2012	12/2016			25
T-550	1	Apple 21.5-inch, Late 2012	12/2016			1
T-551	2	Apple 21.5-inch, Late 2012	12/2016			2
T-551	1	Apple 27" Late 2013	09/2017			1
T-7212-A	10	DELL Precision T5400	4/2014	Next Business Day Support	10	
T-7220	3	DELL Optiplex 780	3/2016	Next Business Day Support	3	
V-201	24		3/2017	Next Business Day Onsite, excl. external / HWM Onsite	24	
V-223	28	HP Z210 - XM856AV	3/2017	Next Business Day Onsite, excl. external / HWM Onsite	28	
V-225	28	HP Z210 - XM856AV	11/2016 & 3/2017	Next Business Day Onsite, excl. external / HWM Onsite	28	
					357	66

- Replacement of 35 existing podium computers.
- Upgrading computers under warranty which have 4 GB of ram to 8 GB and upgrading them to 64 bit image.

**Total Budget allocation for this Project based on current pricing is \$ 346,800**

**1. Podium PC's memory and system upgrades as needed to support Windows 10**

2. All Labs with the exception of STEM and the Math Skills lab have been upgraded to Windows 10. The STEM Lab and Math Skills lab are in process and should be completed this semester.
3. Windows laptops have been prepped to be reallocated to replace the old media center student loan laptops (we are waiting on new batteries to complete this transaction).
4. Apple laptops have been reallocated and prepped to add to the media center student loan pool to afford the students a choice of operating systems.
5. V205 outfitted with new furniture and thin clients.
6. Nexus Tablets were procured, set up, cataloged, and distributed to EMT/Paramedic Students for class use.
7. T215 (Taxi Lab) received new furniture and thin clients.
8. M108 Upgraded computers to HP Elite desk computers.
9. Reconfigured and upgraded the Veterans lounge and added a printer for student use there.
10. Furniture change and redesign of V223 and V225 and upgraded memory as needed.
11. T6 upgraded PC to HP Elite desks.

The original project was to upgrade 35 Podium computers but in view of the roll out of Windows 10 it was determined that we needed to upgrade 167 podium computers. The list is shown below:

Name	Description	Manufacturer	Model
C110-PPC	Podium	HP	EliteDesk 800 - L1G76AV
C111-PPC	Podium	HP	EliteDesk 800 - L1G76AV
C112-PPC	Podium	HP	EliteDesk 800 - L1G76AV
C214-PPC	Podium	HP	EliteDesk 800 - L1G76AV
C215-PPC	Podium	HP	EliteDesk 800 - L1G76AV
C216-PPC	Podium	HP	EliteDesk 800 - L1G76AV
C217-PPC	Podium	HP	EliteDesk 800 - L1G76AV
C319-PPC	Podium	HP	EliteDesk 800 - L1G76AV
C321-PPC	Podium	HP	EliteDesk 800 - L1G76AV
C322-PPC	Podium	HP	EliteDesk 800 - L1G76AV

D110-PPC	Podium	HP	EliteDesk 800 - L1G76AV
D111-PPC	Podium	HP	EliteDesk 800 - C8N26AV
D112-PPC	Podium	HP	EliteDesk 800 - L1G76AV
D214-PPC	Podium	HP	EliteDesk 800 - L1G76AV
D215-PPC	Podium	HP	EliteDesk 800 - L1G76AV
D216-PPC	Podium	HP	EliteDesk 800 - L1G76AV
D217-PPC	Podium	HP	EliteDesk 800 - L1G76AV
D319-PPC	Podium	HP	EliteDesk 800 - L1G76AV
D321-PPC	Podium	HP	EliteDesk 800 - L1G76AV
D322-PPC	Podium	HP	EliteDesk 800 - L1G76AV
<b>D333-PPC</b>	<b>Podium</b>	<b>DELL</b>	<b>Optiplex 9020</b>
E111-PPC	Podium	HP	EliteDesk 800 - L1G76AV
E112-PPC	Podium	HP	EliteDesk 800 - L1G76AV
E113-PPC	Podium	HP	EliteDesk 800 - L1G76AV
E114-PPC	Podium	HP	EliteDesk 800 - L1G76AV
E205-PPC	Podium	HP	EliteDesk 800 - L1G76AV
E215-PPC	Podium	HP	EliteDesk 800 - L1G76AV
E216-PPC	Podium	HP	EliteDesk 800 - L1G76AV
E217-PPC	Podium	HP	EliteDesk 800 - C8N26AV
E218-PPC	Podium	HP	EliteDesk 800 - L1G76AV
E319-PPC	Podium	HP	EliteDesk 800 - L1G76AV
E321-PPC	Podium	HP	EliteDesk 800 - L1G76AV
F319-PPC	Podium	HP	EliteDesk 800 - L1G76AV

F321-PPC	Podium	HP	EliteDesk 800 - L1G76AV
G213A-PPC	Podium	HP	EliteDesk 800 - L1G76AV
G213-PPC	Podium	HP	EliteDesk 800 - L1G76AV
L139-PPC	Podium	HP	EliteDesk 800 - L1G76AV
L141-PPC	Podium	HP	EliteDesk 800 - L1G76AV
<b>M103-PPC</b>	<b>Podium</b>	<b>DELL</b>	<b>Optiplex 9020</b>
M128-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M129-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M130C-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M140-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M146-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M147-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M153-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M154-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M208-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M209-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M210-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M305-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M306-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M313-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M314-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M326-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M330-PPC	Podium	HP	EliteDesk 800 - L1G76AV

M333-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M336-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M337-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M338-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M339-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M342-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M345-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M349-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M358-PPC	Podium	HP	EliteDesk 800 - C8N26AV
M366-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M367-PPC	Podium	HP	EliteDesk 800 - L1G76AV
<b>M378-PPC</b>	<b>Podium</b>	HP	EliteDesk 800 - L1G76AV
M379-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M380-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M385-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M389-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M394A-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M394-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M395-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M396-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M397-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M406-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M411-PPC	Podium	HP	EliteDesk 800 - L1G76AV

M414-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M425-PPC	Podium	HP	EliteDesk 800 - L1G76AV
M428-PPC	Podium	HP	EliteDesk 800 - L1G76AV
S113-PPC	Podium	HP	EliteDesk 800 - L1G76AV
S136-PPC	Podium	HP	EliteDesk 800 - L1G76AV
S157-PPC	Podium	HP	EliteDesk 800 - L1G76AV
S158-PPC	Podium	HP	EliteDesk 800 - L1G76AV
S159-PPC	Podium	HP	EliteDesk 800 - L1G76AV
S162-PPC	Podium	HP	EliteDesk 800 - L1G76AV
S163-PPC	Podium	HP	EliteDesk 800 - L1G76AV
S213-PPC	Podium	HP	EliteDesk 800 - L1G76AV
S237-PPC	Podium	HP	EliteDesk 800 - L1G76AV
S238-PPC	Podium	HP	EliteDesk 800 - L1G76AV
S245-PPC	Podium	HP	EliteDesk 800 - L1G76AV
S246-PPC	Podium	HP	EliteDesk 800 - L1G76AV
S313-PPC	Podium	HP	EliteDesk 800 - L1G76AV
S336-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T216-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T225-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T227-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T229-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T238-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T241-PPC	Podium	HP	EliteDesk 800 - L1G76AV

T246-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T247-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T248-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T249-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T250-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T252-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T262-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T264-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T268-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T271-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T277-PPC	Podium	HP	EliteDesk 800 - L1G76AV
<b>T279-PPC</b>	<b>Podium</b>	<b>DELL</b>	<b>Optiplex 9020</b>
T302-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T303-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4101-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4103-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4104-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4107-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4111-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4112-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4124-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4126-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4135-PPC	Podium	HP	EliteDesk 800 - L1G76AV

T4136-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4137-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4201-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4205-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4206-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4207-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4210-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4211-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4212-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4213-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4214-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4215-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4220-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4223-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4224-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4225-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4226-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4227-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4230-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4232-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4233-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T4251-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T515-PPC	Podium	HP	EliteDesk 800 - L1G76AV

T8105-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T8106-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T8205-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T8207-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T8210-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T8211-PPC	Podium	HP	EliteDesk 800 - L1G76AV
T8212-PPC	Podium	HP	EliteDesk 800 - L1G76AV
V204-PPC	Podium	HP	EliteDesk 800 - L1G76AV
V205-PPC	Podium	HP	EliteDesk 800 - L1G76AV
V208-PPC	Podium	HP	EliteDesk 800 - L1G76AV
V209-PPC	Podium	HP	EliteDesk 800 - L1G76AV
V210-PPC	Podium	HP	EliteDesk 800 - L1G76AV
V213-PPC	Podium	HP	EliteDesk 800 - L1G76AV
V214-PPC	Podium	HP	EliteDesk 800 - L1G76AV

### Replacement of Printers Project (Proj # 12)

- Replace 6 out-of-warranty network printers in labs.  
**Total budget allocation \$12,500.**

**Replaced 6 printers**

### Replacement of Servers Project (Proj # 13)

- Replace 1 out-of-warranty server supporting the labs. This also would allow for virtualization of blade servers and stand-alone servers, as well as addition of memory and processors to existing servers.  
**Total budget allocation \$30,000.**

**An additional server was added as a Vmware host and supports 24 standalone VM's**

**Smart Class Room Project (Proj # 14)**

- The Smart classroom project would be implemented in 3 additional class rooms. Approximately 40 out-of-warranty projection systems will be replaced.

**Total budget allocation including installation will cost \$125,000.**

A total of 49 out-of-warranty projectors were replaced as part of the Smart Class Room project.

<b>F-321</b> Ext. 4315	Epson Projector and Digital Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>G-213</b>	Epson Projector and Porcelain Display Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>G-213A</b> Ext. 4494	Epson Projector and Porcelain Display Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>L-102G</b> Ext. 5046	Epson Projector and Dry Erase Board (Epson PowerLite 580 Projector)		<b>Language Lab</b>
<b>L-304</b> Ext. 4495	Epson Projector with Dry Erase Board (Epson PowerLite 580 Projector)		<b>Computer Lab</b>
<b>M-103</b> Ext. 4221	Epson Projector and Digital Board (Epson PowerLite 580 Projector)		<b>Rehearsal Studio</b>
<b>M-155</b> Ext. 4473	Epson Projector with Dry Erase Board (Epson PowerLite 580 Projector)		<b>Computer Lab</b>

<b>M-313</b> Ext. 4021	Epson Projector and Digital Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>M-322</b> Ext. 4446	Epson Projector and Dry Erase Board (Epson PowerLite 580 Projector)		<b>Computer Lab</b>
<b>M-330</b> Ext. 4302	Epson Projector and Digital Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>M-336</b> Ext. 4305	Epson Projector and Digital Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>M-338</b> Ext. 4305	Epson Projector and Digital Board (Epson PowerLite 480 Projector)		<b>Classroom</b>
<b>M-339</b> Ext. 4305	Epson Projector and Digital Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>M-342</b> Ext. 4480	Epson Projector and Digital Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>M-345</b> Ext. 4480	Epson Projector and Digital Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>M-349</b> Ext. 4480	Epson Projector and Dry Erase Board (Epson PowerLite 580 Projector)		<b>Classroom/ Computer Lab</b>

<b>M-358</b> Ext. 4476	Epson Projector and Digital Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>M-366</b> Ext. 4476	Epson Projector and Digital Board (Epson PowerLite 480 Projector)		<b>Classroom</b>
<b>M-367</b> Ext. 4476	Epson Projector and Digital Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>M-379</b> Ext. 4022	Epson Projector and Digital Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>M-380</b> Ext. 4022	Epson Projector and Digital Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>M-385</b> Ext. 4430	Epson Projector and Digital Board with DVD/VCR (Epson PowerLite 480 Projector)		<b>Nursing Lab</b>
<b>M-389</b> Ext. 4477	Epson Projector and Dry Erase Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>M-394</b> Ext. 4023	Epson Projector and Digital Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>M-394A</b> Ext. 4023	Epson Projector and Dry Erase Board (Epson PowerLite 580 Projector)		<b>Classroom</b>

<b>M-395</b> Ext. 4477	Epson Projector and Digital Board with DVD/VCR (Epson PowerLite 480 Projector)		<b>Classroom</b>
<b>M-396</b> Ext. 4477	Epson Projector and Digital Board (Epson PowerLite 480 Projector)		<b>Classroom</b>
<b>M-397</b> Ext. 4023	Epson Projector and Digital Board with DVD/VCR (Epson PowerLite 480 Projector)		<b>Classroom</b>
<b>M-406</b> Ext. 4347	Epson Projector and Digital Board (Epson PowerLite 480 Projector)		<b>Classroom</b>
<b>M-411</b> Ext. 4332	Epson Projector and Digital Board (Epson PowerLite 580 Projector)		<b>Lecture Hall/ Computer Lab</b>
<b>M-414</b> Ext. 5108	Epson Projector and Digital Board (Epson PowerLite 480 Projector)		<b>Nursing Computer Lab</b>
<b>M-415</b> Ext. 5108	Epson Projector and Digital Board (Epson PowerLite 480 Projector)		<b>Nursing Computer Lab</b>
<b>M-425</b> Ext. 4332	Epson Projector and Digital Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>M-428</b> Ext. 4332	Epson Projector and Digital Board (Epson PowerLite 480 Projector)		<b>Classroom/ Computer Lab</b>

<b>S-245</b> Ext. 4333	Epson Projector and Dry Erase Board (Epson PowerLite 580 Projector)		<b>Classroom/ Computer Lab</b>
<b>S-336</b> Ext. 4334	Epson Projector and Digital Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>T-225</b>	Epson Projector and Dry Erase Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>T-248</b> Ext. 4475	Epson Projector and Digital Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>T-249</b> Ext. 4474	Epson Projector and Digital Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>T-268</b>	Epson Projector and Dry Erase Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>T-309</b>	Epson Projector and Dry Erase Board (Epson PowerLite 580 Projector)		<b>Laboratory</b>
<b>T-4107</b> Ext. 4364	Epson Projector and Dry Erase Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>T-4111</b> Ext. 4359	Epson Projector and Digital Board (Epson PowerLite 580 Projector)		<b>Classroom/ Computer Lab</b>

<b>T-4112</b> Ext. 4043	Epson Projector and Dry Erase Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>T-4124</b> Ext. 4050	Epson Projector and Dry Erase Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>T-4136</b> Ext. 4479	Epson Projector and Display Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>T-4206</b> Ext. 4458	Epson Projector and Digital Board (Epson PowerLite 580 Projector)		<b>Classroom/ Computer Lab</b>
<b>T-4210</b> Ext. 4053	Epson Projector and Dry Erase Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>T-4211</b> Ext. 4053	Epson Projector and Dry Erase Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>T-4220</b> Ext. 4325	Epson Projector and Dry Erase Board (Epson PowerLite 580 Projector)		<b>Classroom</b>
<b>T-4230</b> Ext. 4371	Epson Projector and Dry Erase Board (Epson PowerLite 580 Projector)		<b>Classroom/ Computer Lab</b>
<b>T-4232</b> Ext. 4336	Epson Projector and Display Board (Epson PowerLite 580 Projector)		<b>Classroom/ Computer Lab</b>

### **Smart Labs Project (Proj # 15)**

Additional ceiling mounted projection systems will be installed in three labs. The replacement of five out-of-warranty projectors will also take place.

**Total budget allocation \$15,000 including installation and Pixie controls, speakers.**

### **Upgrade-Expansion and Enhancement of Labs (Proj # 16)**

- In the last fiscal year a project was started to upgrade the labs by replacing the existing makeshift desks with industry-standard furniture that provides a better learning environment and allows for versatile use of this space. In addition to replacing the furniture, the project, in collaboration with Facilities is embarking on sprucing up the labs with new paint jobs and the repair of ceiling tiles and flooring. The project includes adding capacity where possible by reconfiguring the rooms and adding an access card system to allow faculty to open the doors based on scheduled room usage rather than waiting for the ITS department. The following labs have been earmarked for next fiscal year: F-206, L-102G. .

**Total budget allocation for this project \$100,000.**

The Language Lab L-102G has been upgraded with new software, furniture, additional memory and room layout to better facilitate the learning experience there.

For the following rooms with computer technology door access is being added to facilitate access by faculty and staff with ITS staff or security help and also secure the assets in these rooms from theft and vandalism during off hours:

E113, L117, L118B, M224, M349, S245, T216, T4103, T4111, T4206, T4212, T230, T4232, T7117, T7119, T7221, T7222, V205

### **Tablets/Laptops for Students Project (Proj # 17)**

- Replacement of out-of-warranty wireless laptops based on a four-year refresh cycle. As the use of tablets in instructional areas has increased, and there is a cross section of Kingsborough students without such devices, we will be replacing and adding systems that can be used both as tablets and laptops. We plan on adding 75 such devices.

**Total Budget allocation \$56,000.**

**Two laptop carts were upgrades for the Student Wireless Laptop lending project**

### **Video in Class Rooms and Labs (Proj # 18)**

- In order to meet need for video collaboration in instruction, six labs will have HD camera installation to work with Blackboard Collaborate, Skype, Radvision or any other video conferencing system. Labs to be added this fiscal year would be M-220A, M-223, M-214, M-125 and M-322.

**Total Budget allocation is \$10,000.**

**Video system is being added in M-246 culinary kitchen for streaming of food preparation to the whole class so it can be viewed by everybody in full detail.**

#### **Virtual Desktop Initiative (Proj # 19)**

- A pilot project using VMware Horizon to provide 30 students concurrent access to fashion design software via tablets, laptop and handhelds was initiated in last fiscal year. The virtual lab would allow students who lacked the ability to practice and use this software outside the physical lab that has the fashion design software installed. It also ameliorates the need for additional licenses for the open labs while allowing students to do homework assignments. In the Fiscal Year 2016-2017 an additional 60 concurrent student access licenses will be added.

**Total Budget allocation is \$60,000**

**An additional 60 concurrent student access licenses are being added which will allow Lab 225 to be virtualized and allow additional 30 concurrent connections for faculty and students of other disciplines.**

#### **Wireless Expansion and Upgrade Project (Proj # 20)**

- We will continue the process of adding access points in class rooms and exterior areas to accommodate wireless use through thin clients and mobile devices. The project entails replacing 200 access points.

**Total Budget Allocation \$60,000 for Access Points, \$15,000 for additional Node licenses and \$15,000 for cabling/enclosures.**

**Total budget allocation: \$90,000**

1. Upgraded firmware on the TCRM controller to 8.2.2 which will support Wave 2 access points.
2. Upgraded the following classroom wireless access points from AP320 to AP832e:

AP-437-V215-V205

AP-438-M224-M349

AP-442-S246-S255

AP-444-T4-T4230

AP-445-T4-T4232

AP-448-L132-L219

AP-451-T217-T279

AP-461-WAC E-E319\_1

AP-462-WAC E-E319\_2  
AP-34-WAC F-F319\_2  
AP-35-WAC F-F319\_1  
AP-466-M242-M130-2  
AP-465-M242-M130-1  
AP-38-T7121-T7117  
AP-39-T7121-T7221  
AP-40-T7121-T7221  
AP-41-T7121-T7119  
AP-42-T7121-T7119  
AP-44-T4-T4103  
AP-45-T4-T4103  
AP-46-T217-T216  
AP-47-T4166-T4111  
AP-48-T4166-T4206

3. Upgraded firmware on the TCRM controller to 8.2.2 which will support Wave 2 access points

4. Upgraded the following infrastructure wireless access points from AP320 to AP-U421EV

:

AP-77-S263-2FL  
AP-76-S211-2FL  
AP-38-V109-1FL  
AP-37-V220-2FL  
AP-28-U219-2FL  
AP-11-M242-2FL  
AP-10-M224-2FL  
AP-9-M212-2FL  
AP-8-L132-1FL  
AP-7-L103-1FL  
AP-110-AS246-3FL  
AP-109-S211-1FL  
AP-108-AS211-1FL  
AP-107-AS211-1FL  
AP-106-S211-1FL  
AP-105-S211-2FL  
AP-104-AS211-2FL  
AP-103-AS211-3FL  
AP-98-M242-3FL  
AP-97-M242-2FL

AP-96-M424-4FL  
AP-95-M424-4FL  
AP-94-M424-4FL  
AP-93-M242-2FL  
AP-92-M224-EXTR  
AP-91-M242-2FL  
AP-90-M242-3FL  
AP-89-M242-1FL  
AP-88-M224-3FL  
AP-87-M212-3FL  
AP-86-M212-2FL  
AP-85-M224-3FL  
AP-84-M224-2fL  
AP-83-M212-2FL  
AP-82-M212-3FL  
AP-81-M224-3FL  
AP-80-M224-2FL  
AP-79-M224-3FL  
AP-75-L302-3FL  
AP-74-L302-3FL  
AP-73-L502-5FL  
AP-72-L700-5FL  
AP-71-L700-6FL  
AP-70-L700-6FL  
AP-69-L700-8FL  
AP-68-L700-8FL  
AP-67-T5-EXTR  
AP-66-T5-EXTR  
AP-65-T5-1FL  
AP-64-T5-EXTR  
AP-63-T5-EXTR  
AP-62-T5-1FL  
AP-61-T5-1FL  
AP-60-T5-1FL  
AP-59-M242-EXTR  
AP-58-M242-1FL  
AP-57-M242-1FL  
AP-56-M242-1FL

AP-55-M224-1FL  
AP-54-M242-1FL  
AP-53-M224-1FL  
AP-52-M212-1FL  
AP-51-M212-EXTR  
AP-50-M212-EXTR  
AP-49-M212-EXTR  
AP-48-M212-EXTR  
AP-47-M212-EXTR  
AP-46-WAC D-2FL  
AP-45-WAC C-2FL  
AP-44-WAC C-2FL  
AP-43-WAC D-2FL  
AP-42-WAC E-2FI  
AP-41-WAC D-2FL  
AP-40-WAC C-2FL  
AP-39-WAC F-2FL  
AP-36-WAC D-EXTR  
AP-35-WAC D-EXTR  
AP-34-WAC F-EXTR  
AP-33-WAC E-EXTR  
AP-32-U219-2FL  
AP-31-U219-2FI  
AP-30-U219-2FL  
AP-29-U219-2FL  
AP-27-U118-1FI  
AP-26-U118-1FI  
AP-25-U118-1FL  
AP-24-U118-1FL  
AP-22-U203-2FL  
AP-20-L200-2FL  
AP-19-L200-2FL  
AP-18-L302-2FL  
AP-17-L132-1FL  
AP-16-L132-1FL  
AP-15-L103-1FL

**Wireless Printing Project (Proj # 21)**

- Currently we do not have the capability to allow students to print from their mobile devices. By adding this functionality we will expand this service by starting with students who use KCC assigned hardware and second phase BYOD devices.

**Total Budget Allocation \$ 7,000**

**Wireless printing has been added to laptop carts for the Journalism program.**

# TECHNOLOGY FEE- Projects 2017-2018

## **Augmentation /Maintenance of Networking Infrastructure Project (Proj # 1)**

The number of devices (whether BYOD or from installation base) is increasing at the rate of 25% per year; the infrastructure setup six years ago, though still reliable, is showing signs of strain. We plan for the coming years and increasing our install base by another 6 percent just in thin clients in class rooms we need to replace out of warranty switches and upgrade them to 10 GB backbone. Due to the fact that we now have additional bandwidth we need to remove bottlenecks in the network to ensure the benefit of increased bandwidth is directed to the end points.

**The budget allocation for this project is \$ 71,634.**

## **Augmentation of Connectivity Project (Proj # 2)**

In order to augment the internet connectivity Kingsborough is leveraging alternate access to internet, this provides us with direct connection to internet as well as bigger and faster access.

**The budget allocation for this project is \$ 76,550.**

## **Assistive Technology Augmentation (Proj # 3)**

In order to ensure that students with special needs have the right kind of furniture in labs we will be replacing 30 desks so they are Adjustable to accommodate wheel chairs of different heights.

**The budget allocation for this project is \$ 47,215.**

## **Mobile Project (Proj # 4)**

Blackboard Mobile Central is a comprehensive suite of campus services targeting students, faculty, administrators, alumni and our broader community on both native and mobile web platforms. It was architecture with scalability in mind. Considering that it is impossible to truly plan for the vast array of devices to come in the future, we have built a central service to house data in a way that can be repurposed across all platforms/devices. In this way iPhone®, Android® and forthcoming mobile operating systems will access the Blackboard Mobile Central application through the same central service on the backend. The first set of apps was released in January 2013, we will be adding additional apps and continue to maintain current apps.

**The total budget allocation for this is \$25,000.**

## **Business Continuity Project (Proj # 5)**

In order to support 24/7 operations and to reduce downtime we have embarked on a project to augment the infrastructure and provide redundancy and increase fault tolerances where possible. We are adding UPS to support the network switches in labs. The cost includes equipment and redundant fiber connectivity to IDF closets. We need to ensure that all our labs and IDF which support instructional technology are dual homed and can continue operation irrespective of loss of a core switch or data center.

**The total Budget allocation is \$ 10,000.**

**Class Capture System and Online Video Depository (Proj # 6)**

Class capture system, after looking at various systems Yuja was selected as the system of choice for class capture, we would be extending this offering to more faculty and use it as a DR solution as well so that in case of emergency recorded classes can be published for student use. The Yuja software can also be used for streaming live content which provides the opportunity to use it for more than class capture.

**Total Budget Allocation is \$26,400.**

**Computerization of Classrooms Project (Proj # 7)**

In order to meet the growing need for computers labs, conversion to computer based testing and using computers for instructional purposes, we have embarked on a project to deploy computers in classrooms. We are planning on adding over 30 wireless thin clients and tablets. Total budget allocation for this project including hardware, electrical work, deployment of furniture and construction needed to convert the current lecture style classrooms to dual-purpose rooms and installation is

Following rooms are to be part of this project.

<u>Room</u>	<u>Existing Seats*</u>
M-425	30

**Total Budget allocation is \$65,800.**

**E-Portfolio (Digication) Project (Proj # 8)**

- E-Portfolios are platforms for students, teachers, alumni, and professionals to showcase their work and ideas. They are archives of learning, discovery, progress, achievement and reflection. A few uses of E-Portfolios include assessment, admissions, interactive resumes, student galleries, teacher resource sites, collaborative project portfolios, and research presentations. KCC plans on using Digication for 1,100 students and faculty.
- Total Budget allocation is \$4,990.**

**Instructional Software Upgrade Project (Proj #9)**

- Upgrade Adobe software to the latest version in all labs.
- Upgrade Animation software to the latest version in MAC graphic labs.
- Upgrade AutoCAD software to the latest version in all Labs.
- Upgrade Tandberg software in Language Lab L-102G.
- Upgrade Virtualization software for academic servers.
- Upgrade Culinary Science Software in U-118 and M-246 labs.

- Upgrade NetOp Software in all labs.
- Upgrade Deepfreeze software in all labs.

**Total budget allocation is \$73,335.**

**Library Databases and eBooks (Proj # 10)**

Procuring various titles for library databases as requested by Academic Services.

**Total budget allocation \$ 30,030.**

**Print Management Solution (Pharos) Project (Proj # 11)**

- Support for recently deployed pay-for-print system with support for workstation reservations to additional open labs. Expansion of remote printing from home and wireless stations. Expanding reservation facilities to other areas.
- **Total budget allocation \$ 6,316.**

**Replacement of Computers in Labs (Proj # 12)**

- Replace 304 computers in the labs based on 4-year refresh cycle.
- Replace 66 MAC computers in Graphic Labs based on 4-year refresh cycle.

Room #	Quantity	Make	Model #
L 118B	10	OPT	780 & 790
L 131	11	27" MACs	27"MACs
L 202	6	HP	Z210
L 219S	8	HP	Z210
L 705	7	DELL	790
M 109	30	HP	Z220
M 111	28	HP	Z210
M 118	32	HP	Z210
M 149	7	DELL	Optiplex 760
M 200A	36	HP	Z210& Z220
M 223	34	HP	Z210
M 302	8	DELL	Optiplex 760
M 322	31	HP	Z210
S 135		DELL	Optiplex 780

	8		
T 7212A	10	DELL	T5400
T 7220	3	DELL	Optiplex 780
U 227A	21	DELL	Optiplex 9010
U 227B	6	DELL	Optiplex 9010
<b>TOTAL</b>	<b>290</b>		

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- Replacement of 15 existing out of warranty podium computers.

**Total Budget allocation for this Project based on current pricing is \$ 276,437**

**Replacement of Printers Project (Proj # 13)**

- Replace 6 out of warranty network printers in labs.  
**Total budget allocation \$12,500.**

**Printers to be replaced in Labs**

<b>Room #</b>	<b>Model #</b>
M322	HP P4015
M155	HP P4015
M149	HP P4015
M114	HP P4015
M109	HP P4015
M101	HP P4015
S214	HP P4015
V-201	HP P4015

**Replacement of Servers Project (Proj # 14)**

- Replace 1 out of warranty servers supporting the labs. Also would allow for virtualization of blade servers and stand-alone servers. Addition of memory and processors to existing servers is part of the project.  
**Total budget allocation \$25,000.**

**Smart Class Room Project (Proj # 15)**

- The Smart classroom project would be implemented in 1 additional class rooms. We will be replacing 40 out of warranty projection systems will be replaced.

	<b>ROOM</b>	<b>Room Type</b>	<b>Projector Installed</b>
1	C-319	Classroom	Boxlight BL X25NU Projector
2	E-112	Classroom	Boxlight BL X25NU Projector
3	E-114	Classroom	Boxlight BL X25NU Projector
4	E-216	Classroom	Boxlight BL X25NU Projector
5	L-137	TV Studio	SCP 716 Projector
6	L-139	Classroom	Boxlight BL X25NU Projector
7	M-108	Registrar Lab	Boxlight X35N Projector
8	M-306	Classroom	Boxlight BL X25NU Projector
9	M-326	Classroom	Boxlight BL X25NU Projector
10	M-333	Classroom	Boxlight BL X25NU Projector
11	M-337	Classroom	Boxlight BL X25NU Projector
12	S-113	Classroom	Boxlight BL X25NU Projector
13	S-114	Science Lab	DMS 800 Projector
14	S-213	Classroom	Boxlight BL X25NU Projector
15	S-246	Classroom	Boxlight BL X25NU Projector
16	S-313	Classroom	Boxlight BL X25NU Projector
17	T-227	Classroom	DMS 800 Projector
18	T-229	Classroom	DMS 800 Projector
19	T-238	Classroom	SCP 712 Projector
20	T-241	Classroom	SCP 716 Projector
21	T-246	Classroom	DMS 800 Projector
22	T-247	Classroom	DMS 800 Projector
23	T-250	Classroom	DMS 800 Projector
24	T-262	Classroom	DMS 800 Projector
25	T-264	Classroom	DMS 800 Projector
26	T-269	Classroom	DMS 800 Projector
27	T-277	Classroom	Boxlight BL X25NU Projector
28	T-303	Classroom	3M SCP716
29	T-4101	Classroom	DMS 800 Projector
30	T-4103	Classroom/Lab	DMS 800 Projector
31	T-4104	Classroom	DMS 800 Projector
32	T-4137	Classroom	3M SCP716
33	T-4201	Classroom	3M SCP716
34	T-4205	Classroom	3M SCP712
35	T-4213	Classroom	3M SCP716

36	T-4214	Classroom	3M SCP716
37	T-508	Art Room	Boxlight Seattle X35N Projector
38	V-205	Classroom	Boxlight BL X25NU Projector
39	V-210	Classroom	Boxlight BL X25NU Projector
40	V-213	Classroom	Boxlight BL X25NU Projector

### **Smart Labs Project (Proj # 16)**

Additional ceiling mounted projection systems will be installed in one lab. The replacement of four out of warranty projectors will also take place.

M-108, M-109, M-114, M-223

**Total budget allocation for Project # 15 and Project # 16 including installation will be \$ 125,000.**

### **Uplift-Expansion and Enhancement of Labs (Proj # 17)**

- In last fiscal year a project was started to uplift the labs by replacing the existing makeshift desks with industry-standard furniture that provides a better learning environment and allows for versatile use of this space. In addition to replacing the furniture the project, in collaboration with Facilities is embarking on sprucing up the labs with new paints jobs and the repair of ceiling tiles and flooring. The project includes adding capacity where possible by reconfiguring the rooms and adding an access card system to allow faculty to open the doors based on scheduled room usage rather than waiting for the ITS department. Following labs have been earmarked for next fiscal year.

**Total budget allocation for this project \$68,000.**

### **Tablets\Laptops for Students Project (Proj # 18)**

- Replacement of out of warranty wireless laptops based on a four-year refresh cycle. As the use of tablets in instructional areas have increased and there is a cross section of Kingsborough students without such devices we will be replacing and adding systems that can be used both as tablets and Laptops. We plan on adding 60 such devices.

**Total Budget allocation \$30,000.**

### **Video in Class Rooms and Labs (Proj # 19)**

- In order to meet need for video collaboration in instruction six labs will have HD camera installation to work with Blackboard Collaborate, Skype, Radvision or any other video

conferencing system. Labs to be added this fiscal year would be M-125, S-214, S-225, V-223, V-225 and M-246

- **Total Budget allocation is \$7,000.**

#### **Virtual Desktop Initiative (Proj # 20)**

- A pilot project was initiated using VMware Horizon product to provide 30 students concurrent access to fashion design software via tablets, laptop and handhelds was initiated in last fiscal year. The virtual lab would allow students who were lacking the ability to practice and use this software outside the Physical Lab that has the Fashion Design Software installed. It also ameliorates the need for additional licenses for the open labs while allowing students to do homework assignments. In the Fiscal Year 2016-2017 an additional 30 concurrent student access licenses will be added.  
**Total Budget allocation is \$20,000**

#### **Wireless Expansion and Upgrade Project (Proj # 21)**

- We will continue the process of adding access points in class rooms and exterior areas to accommodate wireless use through thin clients and mobile devices. The project entails replacing 150 access points.  
**Total Budget Allocation \$ 90,000 for Access Points, \$ \$25,000 for Maintenance and support and \$5,000 for cabling/enclosures.**

**Total budget allocation: \$115,000**

#### **Wireless Printing Project (Proj # 22)**

- Currently we do not have the capability to allow students to print from their mobile devices by addition this functionality we will be able to serve to start with students who use KCC assigned hardware and second phase BYOD devices.

**Total Budget Allocation \$ 16,000**

KINGSBOROUGH CC – TECHNOLOGY FEE BUDGET SUMMARY 2017-2018

		2017/2018
<b>Staff Costs</b>	(List each position, title, salary and fringes)	
	College Assistants (Lab Support)	600,000
	Fringe Benefits	60,000
<b>Sub-Total</b>		<b>660,000</b>
<b>Consulting-Smart Class Room\Smart Labs-Computerization of Class Rooms &amp; Re-configuration of Labs</b>		<b>66,000</b>
<b>Sub-Total</b>		
<b>Hardware, Networking, Peripherals</b>		
Personal Computers/Servers/Laptops		Quantity
PCs	305	283,000
Laptops	30	20,000
Tablets	30	10,000
Servers	1	25,000
Projection Device	40	50,000
Printers/Scanners		
Printers	8	12,500
Routers/Hubs/Wiring		71,634
Infrastructure		25,000
Wireless		115,000
<b>Sub-Total</b>		<b>612,134</b>
<b>Instructional Software &amp; Other Projects</b>		
(Provide product name and estimated cost, if known)		
Other		
Please see project narrative		
<b>Sub-Total</b>		<b>352,831</b>
<b>Library Electronic Databases</b>		
		30,030
<b>Sub-Total</b>		
<b>Furniture</b>		
		69,000
<b>Sub-Total</b>		
<b>Construction</b>		
<b>Sub-Total</b>		
<b>Faculty Development and Training</b>		
<b>Sub-Total</b>		
<b>Miscellaneous</b>		
Paper for Student Printing		13,500
Computer supplies (Includes MISC items for various projects)		67,500
Equipment Maintenance		180,000
<b>Sub-Total</b>		<b>261,000</b>
<b>Assistive Technology</b>		
<b>Sub-Total</b>		<b>47,215</b>
<b>Enterprise Initiatives (Blackboard, Email, Academic Advisement, Etc.)</b>		
Blackboard		
Symantec		
STI		260,633
<b>Sub-Total</b>		
<b>TOTAL</b>		<b>2,358,843.00</b>