



# Henry Ford Community College

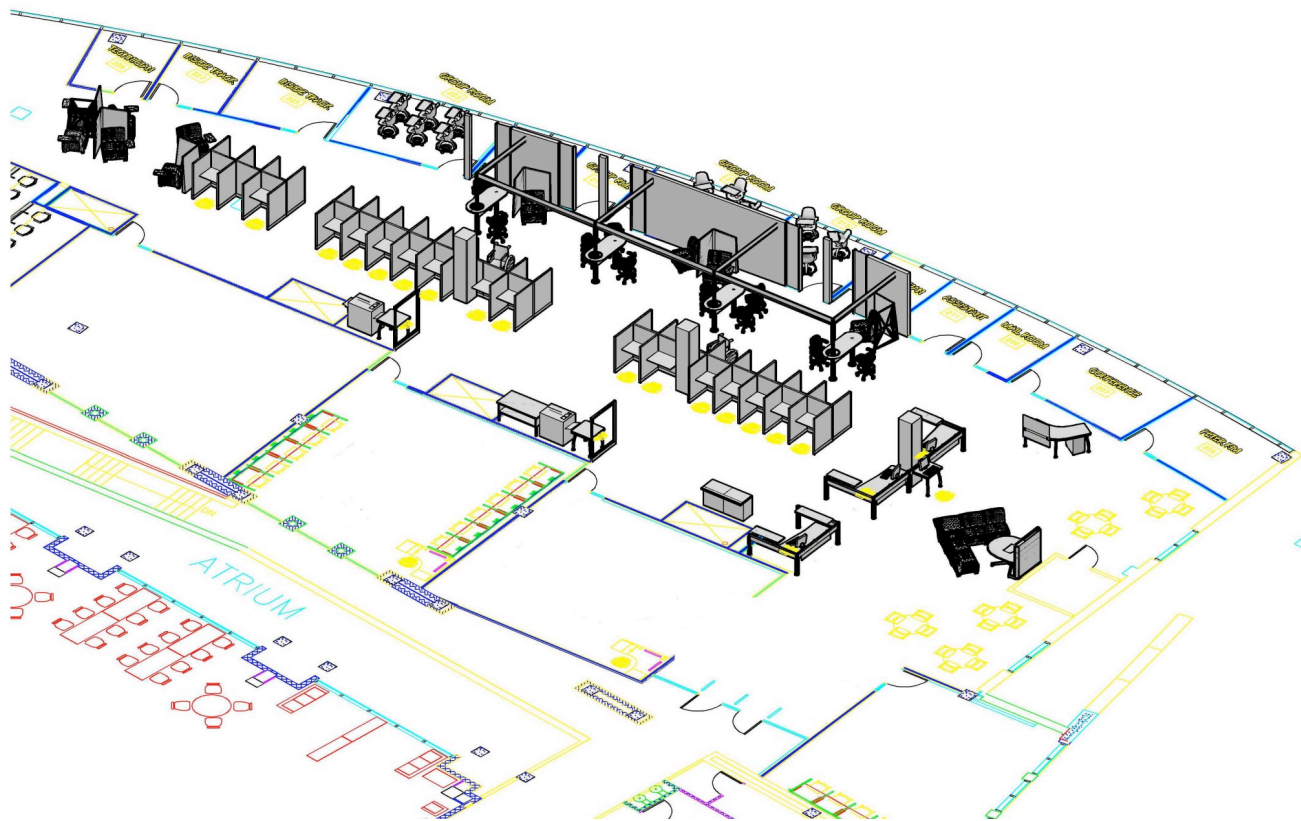
## Technology Investment Fund

### Progress Summary

NAME OF PROJECT DIRECTOR		DEPARTMENT/DIVISION
Peter Kim		Learning Lab/ TLSS
CURRENT DATE	SEMESTER GRANT AWARDED	PROGRESS REPORT STATUS
09/08/2014	Winter 2013	

[ ] Interim [x] Final

**PROJECT DESCRIPTION:** *A brief summary of the project.*



This project sought to expand and centralize the Learning Lab's technology-based learning support services while adding innovations to facilitate future improvements and expansion by: strategically replacing 50 workstations (see chart below), creating improved check-in stations, adding innovative learning spaces, such as laptop plug-in stations with portable whiteboards, adding a MediaScape laptop/tablet conference station, adding four more printer stations, including one for color print jobs, adding a second kiosk for providing students on-demand exam study materials, and ultimately, providing reliable and consistent access to existing and new services for students. In addition, this project sought to improve data collection, tracking of students and their academic progress relative to learning supports, and implement appointment-based services. The overall goal of the project was to develop learning spaces that help students get the quickest and most efficient access to the resources they need, in particular providing technical and infrastructure support for the comprehensive centralization of tutoring services. As the above layout redesign shows, students would have clearer pathways to the services they seek while permitting staff to collect important usage data.

**HFCC - Learning Lab Computer Key**

**Class Room D**

6818-31	instructor				
	6818-4	6818-3	6818-2	6818-1	
6818-10	6818-9	6818-8	6818-7	6818-6	6818-5
	6818-14	6818-13	6818-12	6818-11	
6818-20	6818-19	6818-18	6818-17	6818-16	6818-15
6818-26	6818-25	6818-24	6818-23	6818-22	6818-21
	6818-30	6818-29	6818-28	6818-27	

**Class Room C**

			instructor	9417-15	9417-1
			9417-16	9417-14	9417-2
			9417-17	9417-13	9417-3
			9417-18	9417-12	9417-4
			9417-19	9417-11	9417-5
9417-24	9417-23		9417-20	9417-10	9417-6
9417-25	9417-22		9417-21	9417-9	9417-7
					9417-8

**Class Room B**

	7419-5	7419-4	7419-3	7419-2	7419-1
				check in	974-24
instructor					
7903-2					8265-13
	7419-11	7419-10	7419-9	7419-8	7419-7
					3006-25

**Class Room A**

cascade	cascade	cascade	cascade	cascade	cascade
					6862-4
				check in	4789-45
instructor					
7903-1					
	6675-14	6675-13	6675-12	6675-11	6675-10

**Testing Room**

cascade	cascade	cascade	cascade	cascade	cascade
6675-15					test clerk
6675-16					
6675-17					
6675-18					
6675-19					

**Offices**

office #	new PC	229	Instructional Tech (FT) - Ed Hills
5894-4	5894-5	227	Inside Track
1080-2	2643-2	225	Inside Track
6675-1	223	Bone Room	
new PC	221	Instructional Tech (PT) - Kristen Humbles	
6675-4	6675-5	217	Bio & Chem
new PC	215	Administrative Assistant - Kim Kaier	
new PC	213	Instructional Tech (PT) - Lauren Tisot	
new PC	211	Instructional Tech (FT) - Rick Michalski	
timeclock	3436-1	209	Student Employee Room
		207	Student Lounge
reception	new PC	205	Learning Lab Coordinator - Dr. Kim

**Key**

- ? = sticker missing from PC
- new PC
- new station
- PCs to be replaced/cascaded

**ITEMS PURCHASED:** *Please indicate how you spent the funds allocated to you. Where are items purchased currently being used? (Attach separate sheet if necessary.)*

Description	Project	Reference Number	NDate	Amount
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**FY 2013**

Business Machine Security Michigan	553	V0476207	20130610	6,334.20
Canton Computers Inc	553	V0471801	20130509	434.80
Enertron	553	V0471900	20130513	4,912.00
Innovative Interfaces Inc	553	V0476698	20130619	3,000.00
Peter Basso Associates Inc	553	V0476925	20130625	2,132.40
Sehi Computer Products Inc	553	V0476963	20130625	1,538.00
Sentinel Technologies Inc	553	V0475646	20130531	572.00
Sentinel Technologies Inc	553	V0478959	20130630	15,853.00
Total				34,776.4

**FY 2014**

Lincoln Office Solutions	553	V0479933	20130726	30,638.01
Lincoln Office Solutions	553	V0479934	20130726	64,412.67
Business Machine Security Michigan	553	V0480053	20130730	840.00
Troxell Communications	553	V0480620	20130815	997.00
Enertron	553	V0493013	20131030	4,000.00
Canton Computers Inc	553	V0495012	20131125	43,822.50
Business Machine Security Michigan	553	V0495945	20131217	1,400.00
DeMaria Building Co Inc	553	V0516383	20140530	49,467.49
Correct BPO #4882. Incorr acct	553	J022084	20140530	-49,467.49
Total				146,110.18

Total TIF awarded	240,556.00
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Total TIF funds reconciled	180,886.58
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Unused TIF	59,669.42*
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\*Power panel and electrical building upgrade originally in budget was deemed unnecessary once project commenced.

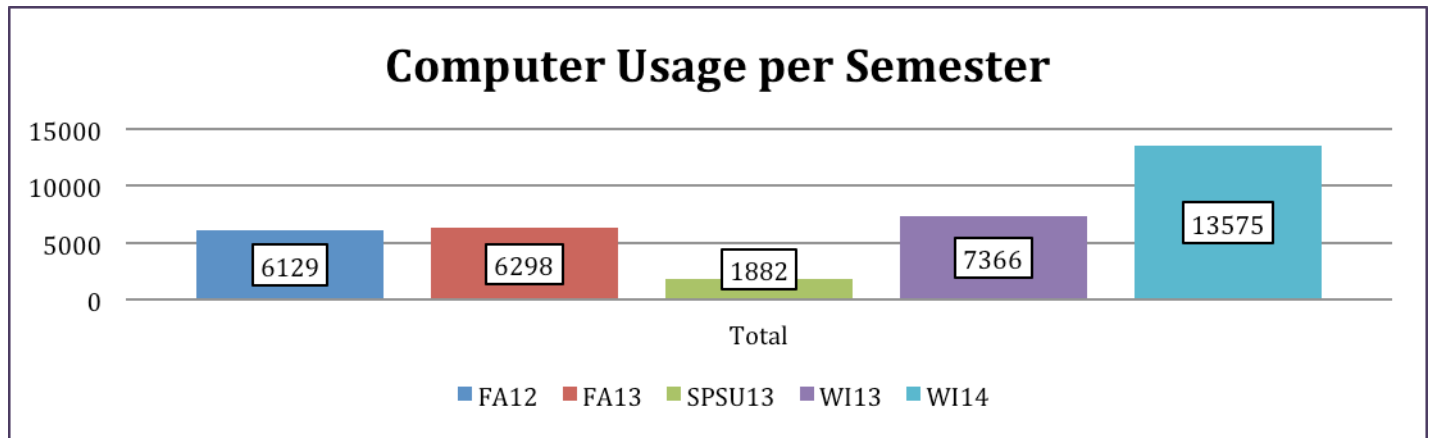
**OUTCOMES EXPECTED:** *What were the outcomes/goals expected from the project as listed in your original proposal?*

*As a result of this project, service to students will be improved through:*

- Improved access to Learning Lab services of tutoring, testing, and reference and media.
- Technology-based support for innovative instructional pilots like Accelerated Learning
- Expanded and improved access to more audiobooks and e-books
- Collaborative learning spaces

**PROJECT EVALUATION:** Please summarize how the project was evaluated and the result of that evaluation. What evidence do you have that the outcomes/goals were or were not met? Please include data collected--questionnaire results, etc. Were there any benefits you may not have expected? Any liabilities? Please share any strength and weakness of the proposed project--your honesty will be of help to others.

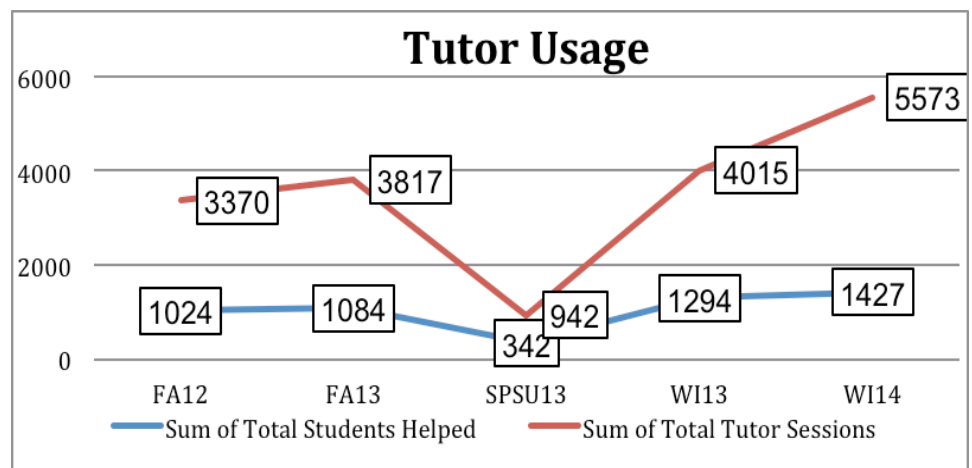
The TIF project improved access to computers and to tutoring services as evident in the data below.



#### Anatomy & Physiology Tutors

With the addition of Anatomy and Physiology models and tutors, biology tutoring increased from 35 students in winter 2013 to 289 students in winter 2014. The numbers are expected to continue to grow as the service grows.

Access to tutoring services also improved as evident in the number of students being tutored, which averaged a 26% increase in tutoring overall.



#### Math Course Redesign of MATH 074

As of this Fall 2014, the Learning Lab is able to provide the infrastructure and technical support for HFC Mathematics Department's Developmental Math Redesign pilot, offering new pathways of success for students who place into developmental Math. In addition to the existing developmental/pre-college program where students are expected to progress within each course at a set pace, two new differentiated modular approaches are available. For students who intend to pursue careers in science, technology, engineering and mathematics (STEM) fields, 12 mastery-learning flexible paced online modules help meet students where they are and progress them to the competencies needed for college-level math.

#### Flaws?

One design flaw in the semi-private workstations made by SteelCase for the open computer lab was the trim. Repeatedly, the trim would pop off, sometimes while students were working. Apparently, the edges of the trim can catch on chairs or clothing, and when pulled, would come off, especially after repeated instances. The vendor had tried multiple fixes until finally changing the design of the trim itself by adding rubber clips and Velcro to hold them in place. Thus far they have held. In addition, the SteelCase MediaScape station was installed just before the model changed; the new model permits programming the display wirelessly. Programming the station installed in the Learning Lab required a laptop, installing the display software, a display adapter, and removing the shell of the MediaScape unit. The unit is now programmed to play slides continuously from a USB flash drive, as well as to toggle between Mac or PC.