Henry Ford Community College
Technology Investment Fund
Progress Summary

NAME OF PROJECT DIRECTOR		DEPARTMENT/DIVISION
Sandro Silvestri		DVC
CURRENT DATE	**SEMESTER GRANT AWARDED**	**PROGRESS REPORT STATUS**
July 11, 2012	Winter 2011	[ ] Interim [X] Final

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

- Upgrade the campus wireless network (installed in 2004) with a state of the art wireless infrastructure.
- Replace the wireless controller, which went to end-of-life in 2008.
- Build in controller redundancy in order to maintain maximum service levels.
- Replace the campus access points that are at 802.11b and support bandwidth up to 11 Mbp with Aps that support 802.11n standards that supports bandwidth up to 100 Mbp and multiple signals.
- Expand wireless coverage in all buildings so as to service existing dead zones.

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

- Perform building wireless coverage surveys
- Redundant wireless controllers system survivability
- Powered switches
- Wireless Access Points
- Software licensing
- Building cabling
- Installation and configuration services
  - **Total $267,225**

Note: The total amount allocated by TIF was $250,000. The overage of $17,225 is 6.8% above the targeted amount, but within the 10% guideline.

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

The expected outcome was a stable, secure, high speed wireless environment that would support multiple types of devices.

The overage occurred as a result of the wireless survey of all campus buildings. While the initial expectation was that the project could be completed with 100 APs. The survey showed that implementing 100 APs would result in dead spots where wireless service would not be available. This was a big problem in the Fine Art, Liberal Arts, Patterson Technical, and Dearborn Heights buildings. As brick and concrete structures, the wall blocked the wireless signal and required the installation of additional APs. The 30 additional APs cost $21,392.

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 project was evaluated by measuring signal strength in every building to ensure proper coverage. Also, wireless network usage was tracked to see if there was an increase in usage. To date, wireless bandwidth has more than doubled. As a result, we had to upgrade our Comcast bandwidth and put in more robust firewalls and proxy servers. We will continue to track usage to ensure that existing internet bandwidth is sufficient.

Note that the wireless infrastructure for Nursing, Old and New Science, and the Welcome Center were not covered by this project and funded by other sources. Bandwidth, firewall, and proxy server upgrades were covered by DVC budget.