Course Title: CSC/IST202 Systems Design and Analysis

Course Leader: Trudy Gift

Expected Learning Outcomes for Course
- Analyze business information needs to develop an appropriate strategy to address these areas using proven industry analysis and design techniques
- Work in teams to determine the requirements and design of an information system and then orally present it to peers and professionals

Assessment
(How do students demonstrate achievement of these outcomes?)
- Assigned projects and examinations emphasize critical thinking are from an industry standards approved textbook and are graded based on an industry standard rubric
- A capstone project is done where an organization is interviewed about an existing problem. Students (as a team) will work through the life cycle development for a solution up to the deployment stage.
- Work developed for the Capstone is actually used by the non-profit organization.

Validation
(What methods are used to validate your assessment?)
When searching for a valid project for this course, I went the IST Advisory Committee for help. They suggested using non-profits. If I couldn't find a non-profit organization, they would volunteer their companies.

The business/non-profit group will evaluate the outcome and it usefulness. The final project will, hopefully, be used by the organization.

Results
(What does the data show?)
This course was offered as a tutorial to one student. Assignments included: setting up email accounts and electronic calendar, learning/creating manual/training two people for two types of software, updating a database. The non-profit was extremely satisfied with the student's work. This is the second time this same organization was used and the student built on the success of the spring 2012.

More time than was required of the class was put in by the student. However, she didn't complain. As she stated, "It is great to see something I designed, coded, and deployed actually put into use. Normally in a traditional class, you only get to design and code. This was very rewarding".

Assignments from the organization are much more realistic than anything that could come from a textbook.

Follow-up
(How have you used the data to improve student learning?)

Comments from the student were extremely positive. They enjoy interacting with an organization that had an actual problem. They enjoyed sharing their input and having their suggestions implemented. I will continue to use this type of outside validation for this course. The non-profit that I used for this semester was extremely thankful for the IT help since their funding is extremely limited. They are continuing to utilize the projects completed by this student.

In the Spring of 2014, this course will be changing since it will be cross-listed with MIS. I am going to try and continue with the Capstone project from an outside non-profit organization. That will be dependent on the size of the class and the time period it is offered. Currently this course is offered in the evening.

Budget Justification
(What resources are necessary to improve student learning?)
To this point, no additional software is necessary.