

# WVSU

## Status of Information Technology

### Information and Issues

#### BANNER enterprise system

- Enterprise application using an ORACLE database supporting several modules.
  - Software modules are current with respect to updates.
  - IT is working with IR to improve data entry accuracy.
  - A project is underway to improve use of the Finance module.
  - WVSU is part of a statewide project to implement degree audit.
- Now planning for hardware replacements and upgrades. Funding will be needed.
  - Outsourcing or cloud computing are not yet economically attractive.

#### Collaboration and Learning Environment (CLE)

- A Center for Instructional Technology (CIT) project.
- Transition from WebCT to Sakai CLE
  - Course Management Systems (CMS)
  - Learning Management Systems (LMS)
  - Virtual Learning Environments (VLE)
  - Sakai is a Java-based, service-oriented application suite. (Service orientation requires loose coupling of services with operating systems.) Sakai is in production at over 150 institutions. UC, Davis & Elkins, Shepherd, Alderson Broaddus, VT, UVA, Duke, MIT, etc.
  - Sakai supports document distribution, a grade book, discussion, live chat, assignment uploads, and online testing and is also intended as a collaborative tool for research and group projects. It includes a wiki, mailing list distribution and archiving, and an RSS reader.
  - Sakai also supports ePortfolios, will showcase selected work and support teaching and learning and will collect evidence for assessment and accreditation.
- Faculty and student training on CLE.
- Support for student and faculty using CLE.
- Content ownership, copyright and fair use questions.

#### Classroom Technology

- Classroom technology and classroom modernization.
  - Need smart boards or projection systems in classrooms.
- Faculty computers.
  - Current plan is for 20% replacement each year.
- Classroom technology training (LMS, A/V, lecture capture).
- Lecture Capture System.
  - Used to capture classroom-based activities in a digital format and then make available for download or consumption over the internet (iPod and MP3 players).

# **Status of Information Technology**

## **Educational Technology Center (ETC)**

- Audio and video production, audio and video studios, content streaming.

## **Instructional and Research Platforms**

- High Performance Computer (HPC), visualization equipment.
  - Grant funded HPC has been ordered from ATC (9 nodes w/ 24GB 1 node w/ 96GB. 2 CISC Cores and 448 CUDA Cores per node).
  - HPC and Visualization equipment to be located in the library for maximum exposure to students and to support the effort to establish the library as a meeting place for intellectual community activities.

## **Telecommunications Network**

- Currently in the process of moving to Voice Over Internet Protocol (VOIP) from an old Private Branch Exchange (PBX) system. Current ratio is about 110 new to 925 old telephones.
  - Funding is a major issue. \$637 for each new telephone on average.
  - Cost per telephone installation can vary widely due to the need to upgrade the network in some areas to support VOIP, thus the high cost per telephone.
- We have completed work funded by a grant to expand network bandwidth to 10GB/sec between the Science Building, Administration Building, Library, and Wallace Hall.
- We are obtaining spare parts for the old PBX telephone system from Marshall and the Rehab center.
- We need to:
  - Expand wireless connectivity on campus.
  - Expand the network filtering and protection environment.

## **FUNDING**

- WVSU needs to increase funding for technology by at least \$150,000 per year, but twice that would be better.
  - WVSU requested \$3,210,000 from the state legislature last year. That was not funded, but all the projects envisioned under that request remain. In addition to items already discussed, that request included:
    - Connect the campus network to Bioplex, ball fields and stadium.
      - Allowing games to be televised on cable television.
    - New ID system.
    - Vending and pay to print equipment using new IDs.
    - Expand HEOA compliance efforts to protect Financial Aid status.
    - Enhanced Video Security System.
    - Update Public Safety ARMS system.
  - The funding target is based on what current staff could implement in a year. More funding would be difficult to use to best stewardship standards with existing staff levels; though it would be a wonderful challenge to have.