

INFORMATION TECHNOLOGY UPDATE



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BOT Business Affairs Committee Presentation
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INFORMATION TECHNOLOGY UPDATE

- Banner and Ancillary Software
- Infrastructure
- Education and Research
- Staffing and Reorganization
- Information Security

BANNER AND ANCILLARY SOFTWARE

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ENTERPRISE APPLICATIONS CRITICAL PROJECTS

Active

- InfoEd (Research)
- Preferred Name (Registrar/HR)
- Oracle ExaData Migration
- Budgeting Analysis Solution/Anaplan (Finance)
- DegreeWorks Upgrade (Registrar)
- DegreeWorks Rollout
- Banner Self Service 9 Student

Active

- Account Provisioning upgrades (Enrollment Management)
- Blackbaud Award Management (Advancement)
- Banner-ARMS Interface (Athletics)
- Blackboard Genius (DEEL)

* This partial list shows critical projects only

ENTERPRISE APPLICATIONS CRITICAL PROJECTS

Pending

- Terra Dotta (International Travel)
- Data Upload (Financial Aid)
- Student Education Planner (Registrar)
- Banner Reporting Structure
- Conflict of Interest Forms (HR)
- Graduway (Advancement)
- Identity Management Upgrades

Efficiency Projects

- ITS is working with other divisions to identify initial efficiency projects

INFRASTRUCTURE

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INFRASTRUCTURE UPGRADES

- Residential network upgrades
- Campus network upgrades
- Core network upgrades
- Perimeter network upgrades
- Network control and monitoring

RESIDENTIAL NETWORK UPGRADES

- New wired network switches and WIFI 6 (802.11ax) wireless access points (APs)
- Goals
 - > Support more wireless devices and improve connectivity
 - > Increase speed of wireless network
- Wireless AP installation is underway
 - > Target completion by mid November
 - > Three buildings completed
- Wired installation is pending delivery of equipment
- Issue: Some buildings have old category 3 cabling

STUDENT NETWORK SUPPORT

- Satellite Help Desk in the Student Center
- Roving Help Desk visits to each residence hall
- Both operational week of October 3rd

CAMPUS NETWORK UPGRADES

- New wired network switches and wireless APs
- Goals
 - > Support more wireless devices and improve connectivity
 - > Increase speed of wireless network
 - > Leverage fabric networking to improve security
- Status
 - > Delivery of wired switches has started
 - > Delivery of APs pending
 - > Architectural planning has started

CORE NETWORK UPGRADES

- New core switches and firewalls
- Goals
 - > Increase core network speed
 - > Implement faster switches and additional redundancy
 - > Leverage firewalls as internal intrusion prevention (IDS)
- Status
 - > Core switches and firewalls are powered up and online
 - > Architectural planning has started

PERIMETER NETWORK UPGRADES

- New firewalls
- Goals
 - > Segment public facing equipment
 - > Replace older virtual private network (VPN) technology
- Status
 - > New firewalls are powered up and online
 - > Cutover of existing firewalls planned for October

NEW NETWORK CONTROL AND MONITORING

- New systems now in place
- Network Access Control (NAC)
- Network discovery and vulnerability scanning
- Network performance monitoring
- NextGen Antivirus/Endpoint Detection and Response (EDR)
- Security Information and Event Management (SIEM)

EDUCATION AND RESEARCH

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APPLE MOBILE PROGRAM – UNLIMITED POSSIBILITIES (AMP-UP)

- Project designed to explore the impact of iPads on teaching and learning
- ITS Responsibilities
 - > iPad configuration, security, and coordinating distribution
 - > Faculty develop
- Spring iPad Distribution
 - > Students: 3,747, Fall: 254
- Fall iPad Distribution
 - > Students: 2,656, Fall: 145

CLASSROOM TECHNOLOGY UPDATES FY21

- Merrick Hall – 123, 124, 125, 222, 223, 322, 323, and 327
- Craig Hall – 111, 112, 133, 134, 212, 236, 237, 316, 333, 334, and 335
- Noble Hall – 210, 308, 311, 313, 314, 315, and 326
- 26 classrooms
- **All completed**
- Had been delayed due to supply chain issues

CLASSROOM TECHNOLOGY UPDATES FY22

- Carver – 100, 201, 213
- Corbett – 101, 102, G-03
- Crosby – 102, 103, 104, 105, 110, 113, 201, 203, 204, 205, 206, 209, 210, 215, 301
- GCB – 103, 105, 106 , 107, 108, 109, 111, 116, 201, 202, 205, 208, 211, 218, 310
- Gibbs – 109, 110, 123A, 204, 214, 216, 242, 307, 315, 317, 318, 337
- Sockwell – 104, 114
- Webb – 100, 203, 204, 205, 208, 209, 217
- Benbow – 101, 107, 109, 200, 201, 203, 206, 207, 208
- Proctor – 111, 112, 114, 160, 211, 212, 214, 261, 262, 311, 312, 314
- NSB – 115
- Marteena – 215, 233
- 81 Classrooms
- Delayed due to supply chain issues

COMPUTER LAB UPGRADES FY23

- To replace old computers and support reaccreditation
- College of Arts, Humanities and Social Sciences
- College of Science and Technology
- Ordering is underway

COMPUTER LAB MANAGEMENT

- All labs will use an ITS base image
- All labs will be part of the university Active Directory domain
 - > College of Agriculture and Environmental Sciences pending
- College of Engineering
 - > ITS has assumed management of 25+ COE labs
 - > Moved to the university's Active Directory domain

COMPUTER REPLACEMENT CYCLE

- Four-year replacement cycle
- Managed centrally
- All faculty and staff office computers
- Standardize on laptop, dual monitors, docking station, mouse and keyboard
- Rollout to begin later this semester

STAFFING AND REORGANIZATION

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ITS REORGANIZATION STATUS

- Filled
 - > Associate Vice Chancellor for Data Governance and Business Intelligence
 - > Director, IT Project Management and Business Operations
 - > Director, Network and System Administration
 - > Director, Enterprise Application Services
 - > Interim Associate Vice Chancellor and Deputy Chief Information Officer
- Vacant
 - > Associate Vice Chancellor and Deputy Chief Information Officer
 - > Director, Client Technology Services

INFORMATION SECURITY



NEW NETWORK CONTROL AND MONITORING

- New systems now in place
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OVERLAPPING NETWORK SECURITY LAYERS

- Segment computers into functional groups
- Isolate by limiting communication between groups
- Use endpoint tools to manage device security
- Use tools between segments to detect malicious traffic
- Use regular scanning to identify problematic computers
- Aggregate logs to identify problematic patterns and respond to specific events

Questions?