A brief look at some of the things we’ve been working on this past year.
Financial Information System

- A move to a new Financial Information System is necessitated by issues related to support of current mainframe based FIS within 3–5 years
- UCSB is committed to a solution that is a collaborative partnership with one or more other UC campuses
- Current viable options are UCLA Financial System partnership and UC Kuali Financial System partnership
Updated Communications Infrastructure Standards

A campus-wide committee spent more than a year developing a standards-based approach for deployment of communications infrastructure in new and renovation building projects.

Highlights of Changes include:

• Increased port density of 1 drop per 75 square feet.
• Accommodations for compatible low voltage services, e.g., fire alarm systems, building monitoring & control systems, key access systems, video camera systems, and security alarm systems.
• Accommodations for standby power.
• Definition of the standard communications cabling package connecting telecommunications rooms and leaving a spare conduit between TRs.
• No longer allowing drops to be back-to-back or daisy-chained off the same conduit.
Updated Communications Infrastructure Standards

Highlights of Changes continued:

• Copper cabling specifications:
  – For new buildings and building renovation projects that will be completed prior to January 1, 2015, all installed horizontal cable and components **should** be at least Category 5e.
  – For new buildings and building renovation projects that will be completed on or after January 1, 2015, all installed cable and components **must** be at least Category 6a.

• Fiber cabling specifications:
  – Moving from 62.5 µm core diameter multimode fiber to 50/125 µm OM3 multimode fiber.
  – Fiber Optic Cable Connectors: ST for 62.5 multimode, LC for 50/125 µm OM3 multimode, and SC for single mode.
  – Disallowed use of hybrid singlemode and multimode cables of a common size.
Network Backbone Upgrade

- Current: 1Gb core of 6 partially-meshed Cisco 6506 switches
- Over 300 VLANs
- Upgrade core to 10Gb using Cisco Nexus 7010 switches
- Expect 7010 to provide 40G/100G path
- Departments to self-fund 10Gb upgrade to individual building
- Fiber plant limits: Hops between buildings, limited single mode
- New cabinets for 7010
- Better cabling and airflow
- 7010 is ~400lbs and ~38" deep
Campus Wireless Upgrade

- Current wireless is Cisco, using WiSM controller in 6506 core
- Migrating to standalone Cisco 5508 controllers
- Upgraded WCS wireless management software
- Over 200 A/B/G APs, expect significant growth this year
COLLABORATE: Instructional Technologies @ UCSB
College of Letters and Science

- Coordinating and enhancing technologies in support of instruction:
  - Online tools and materials
  - Classroom display and interaction
  - Computer-based instructional labs
  - Online student support and advising

- In coordination with existing distributed services, supporting >90% of all instruction at UCSB.

- Funded via a student course materials fee of $2.50/unit for L&S courses.
### North Hall Data Center Renovation

<table>
<thead>
<tr>
<th></th>
<th>Currently</th>
<th>After Renovation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Available space</td>
<td>2653 sq ft</td>
<td>4500 sq ft</td>
</tr>
<tr>
<td>Transformer Capacity</td>
<td>916 kVA</td>
<td>2500 kVA</td>
</tr>
<tr>
<td>UPS Capacity</td>
<td>360 kW</td>
<td>360 kW</td>
</tr>
<tr>
<td>Generator</td>
<td>None</td>
<td>400 kW</td>
</tr>
<tr>
<td>Chilled Water</td>
<td>None</td>
<td>8” stub to campus loop</td>
</tr>
<tr>
<td>Fire Suppression</td>
<td>None</td>
<td>Dry Pipe Pre-action</td>
</tr>
<tr>
<td>Security System</td>
<td>Motion Alarm</td>
<td>Card key / Digital Video</td>
</tr>
</tbody>
</table>
GauchoSpace Course Management System

- GauchoSpace is in its fourth year serving as the Course Management System for UCSB
- Based on Moodle 1.9.5 (upgrading to 1.9.9 on August 1 2010)
- Courses using GauchoSpace comprise of 40% of all student enrollments
- Significant enhancements with course site provisioning, automatic group synchronization
- Group synchronization code shared with UCLA
- GauchoSpace continues to operate with no permanent budget beyond a single programmer
Molecular, Cellular, and Developmental Biology Spring 2010 Courses

- MCDB 149 (100) - MARICULTURE - Spring 2010
- MCDB 101B Honors Discussion Spring 2010
- MCDB 126C (100) - BASIC PHARMACOLOGY - Spring 2010
- MCDB 109L (100) - LAB IN BIOCHEMISTRY - Spring 2010
- MCDB 595BG (100) - BACTERIAL GENETICS - Spring 2010
- MCDB 108C (100) - GEN BIOCHEMISTRY - Spring 2010
- MCDB 140L (100) - RECOMBINANT DNA - Spring 2010
- MCDB 21 (100) - IMMUNE SYSTEM/AIDS - Spring 2010
- MCDB 138 (100) - MEDICAL IMMUNOLOGY - Spring 2010
- MCDB 194X (100) - CELL BIOLOGY - Spring 2010
- MCDB 153 (100) - DEVELOP NEUROBIO - Spring 2010
- MCDB 118 (100) - PLANT DEVELOPMENT - Spring 2010
- MCDB 20 (100) - CONCEPTS OF BIOLOGY - Spring 2010
- MCDB 194DT (100) - CELL CYCLE REG - Spring 2010
- MCDB 187 (100) - PHARMACOLOGY COLLOQ - Spring 2010
UCSB Security Program

- Developed and delivered on-line security awareness training
- Selected and delivered scanning software
- Evaluating Encryption solutions
- Assessed compliance with IS-3 (reported to UCOP)
- Presidents request for SSN review (reported to UCOP)
- Surveyed use of SSNs (reported to state committee)
- Implementing new HIPAA/FERPA rules & regulations
- Implemented Red Flags procedures
- Establishing new controls for disposal of e-waste (copiers, printers, fax machines and computers)
- Participating in:
  - Campus Enterprise Risk Management assessment and guidance
  - Campus Emergency Response planning and testing
  - New Campus financial systems
  - Campus identity management project
  - System wide revisions to privacy policy (ECP)
  - System wide Payroll project
  - System wide security training
IT_UCSB.EDU

IT_UCSB.EDU is a launch pad to the information technology organizations that provide infrastructure, applications, and services to support academic and business activities at UCSB.

The site was built with Drupal v. 6, with the following configuration: Server: Virtual machine running under Windows 2010; VM OS: Windows Server 2003; Web/Database servers: Acquia-Drupal DAMP stack; Base installation: Acquia-Drupal package, including core modules plus CCK, Views, Date/Time, Taxonomy, image handling, more

Other contributed modules include:
- LDAP Authentication
- LDAP Sync
- Secure Pages
- Organic Groups and related modules
- Backup and Migrate
- Pathauto
- Messaging and Notifications
- Wysiwyg API
- LinkChecker
- RealName

File system: Private Downloads
Cron scheduler: MoodleCron
Search: Apache Solr search with Apache Solr Attachments (requires Apache Solr 1.4, Java SE Development Kit, Tomcat, Tika)
Core Router Equipment Arrived, Installation Notes
July 6, 2010 - 10:39am — Kevin P. Schmidt

The new Nexus 7010 core routers arrived last week. These boxes are large and heavy, weighing around 400lbs and approximately 37" tall and 38" deep.

10Gb core upgrade equipment ordered
June 24, 2010 - 11:02am — Kevin P. Schmidt

Equipment has been ordered for the core router upgrade. The upgrade primarily consists of seven Cisco Nexus 7010 switches, as well as small switches for out-of-band management and some spare parts. The new switches should arrive during the first half of July, and we're actively working on site preparation issues at the current core locations.

Campus Infrastructure Standards Move Forward
May 28, 2010 - 10:22am — Glenn T. Schiffrin

With the minor changes suggested by the ITB members, the CIS document that went through the BEG and ITPG was approved by the ITB, COT, and Communications Services are now funding additional documents to be used by campus, that reflect the CIS. The first is a Summary Document that will provide important information to campus Project Managers as they work on renovations and new construction. PlantNet (the outside consultants) are working with the revised CIS to produce this document. It is expected to be available from the for review by June 14th.

Campus Operator Service Hours Change
May 28, 2010 - 9:11am — Bruce A. Miller

Communications Services announces a change in campus operator service hours. Effective Tuesday, June 1, 2010, the new hours are 8:00 a.m. to 5:00 p.m. (Monday through Friday), excluding weekends and university holidays.
For further information about any of these items, please email your questions to Elise.Meyer@ucsb.edu

Thank you!