IT News
INFORMATION TECHNOLOGY @ WILLIAM PATERSON UNIVERSITY

New Teaching and Learning Tools: Adobe Design Premium and Blackboard Collaborate!

Now faculty, staff and students will find **Adobe Design Premium** in all the public labs on campus. Managers of Departmental labs who need the program(s) below, may request it through the Help Desk.

Faculty and staff will be able to have a copy at their desktop at work or at home as well! We recently graduated to a full site license for these products.

- Adobe Design Premium CS5.5
  - Adobe Bridge CS5.1
  - Adobe Device Central CS5.5
  - Adobe Dreamweaver CS5.5
  - Adobe ExtendScript Toolkit CS5.5
  - Adobe Extension Manager CS5.5
  - Adobe Fireworks CS5.1
  - Adobe Flash Catalyst CS5.5
  - Adobe Flash Professional CS5.5
  - Adobe Illustrator CS5.1
  - Adobe InDesign CS5.5
  - Adobe Media Encoder CS5.5
  - Adobe Photoshop CS5.1 (64 Bit)
  - Adobe Pixel Bender Toolkit 2.6
- Adobe LiveCycle ES2

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Contact IRT
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www.wpunj.edu/irt

Wireless Network Access Has Expanded To All Campus Buildings!

The Information Systems Department at William Paterson University is pleased to announce that the Network and Hardware Service (NHS) unit has completed the final deployment phase of wireless access on campus. State-of-the-art 802.11n ("N" Standard) technology is now available in all classrooms, building public areas, residence hall rooms, the library and the University Commons. This project, already in progress for a few years, was fast tracked to attain campus-wide deployment by the end of this fiscal year. The goal was reached earlier thanks to the hard work of the NHS staff.

The new wireless network has enhanced coverage signal, faster speeds, excellent security, and streamlined authentication for easy access. It also boasts a total of 515 wireless "N" access points and averages about 2100 authenticated users at any point in time. During peak hours, 2600 concurrent users is not uncommon. By far this is one of the most scalable and advanced wireless networks in the NJ area.

For more information on wireless access visit the following link:
http://www.wpunj.edu/is/network/wireless/

WILLIAM PATERSON UNIVERSITY

Announcing the new Center for Teaching and Learning Technology!

Focused on integrating technology with teaching and learning, the new center will feature:

- New faculty orientation
- Common hour roundtables
- Pedagogy seminars
- Instructional design mentorship

The center will be housed in Atrium 113 and will be staffed by the Academic Technology Team: Assistant Director Robert Harris, Lead Instructional Designer Jae Kim, and Instructional Designer Housen Maratouk. The Center's activities will debut in the Fall Semester of 2012, but coming events will be advertised throughout the summer.

For more information please contact:
Robert Harris – Atrium 109 - harrisr@wpunj.edu – 973.720.2451

New WPUNJ Security Center

The University has chosen Genetec's Security Center as the unified security platform to be implemented for surveillance cameras, access control and intrusion alarms. The need for a unified platform became evident when we experienced multiple failures of disparate, departmentally purchased security systems across the campus. Genetec Security Center facilitates scalable management of multiple security and safety systems and thousands of endpoints. It leverages our IP network providing end-to-end connectivity to all major system components and provides the University Police with an intuitive interface to monitor all aspects of the system.

Academic buildings will be the first to receive the various components of the system. Installations are almost complete in the Science Complex and Hobart Hall. Raubinger and Shea will see installations over the summer as part of renovations in those spaces followed by Ben Shahn, Power Arts and the Atrium. Conversion of existing systems in 1600 Valley Road and the University Commons will also occur during the next fiscal year.

In conjunction with Hospitality Services, new ID cards will be issued beginning in the fall. The new cards will permit access by swipe or proximity. As Security Center implementation progresses, new access control readers that accommodate the use of proximity cards will be installed on external building doors and at the parking gates. A new gate was recently installed at Access Road (between Lots #6 and #7) and a new gate along with a Guard Booth is in progress at entry #2 by Morrison Hall. Surveillance cameras will also eventually be installed at every parking gate and throughout the parking lots.

The Office of Telecommunications and Physical Security Technologies is responsible for the overall implementation and ongoing support of the Genetec Security Center for the University Police and Public Safety department.

Turnitin (Tii) Now Integrated With Blackboard

Turnitin is a plagiarism detection software program that faculty can use to compare student papers with a bank of over 200 million archived student papers, 17 billion web pages and close to 100,000 journals, periodicals, and books. Now integrated with Blackboard (Bb) it is a powerful tool for uncovering plagiarism. Faculty can choose to direct students to submit papers to Tii through the Blackboard interface or may directly submit only those papers which appear to be suspicious. Turnitin shows how much of the student's paper matches content from their databases so instructors can quickly understand how much of a paper is – or isn't -- original. Matched text and sources are color-coded for easy detection. The instructor can fine-tune the detection parameters to filter out bibliographic sources or quotes. The resource is completely online and available 24/7 through a standard web browser.

For more information about the data bank against which papers are compared, go to http://turnitin.com/en_us/products/content. Support documents for students and faculty can be found in the respective support tabs on the Bb interface as well as directly on the Tii website (http://turnitin.com).
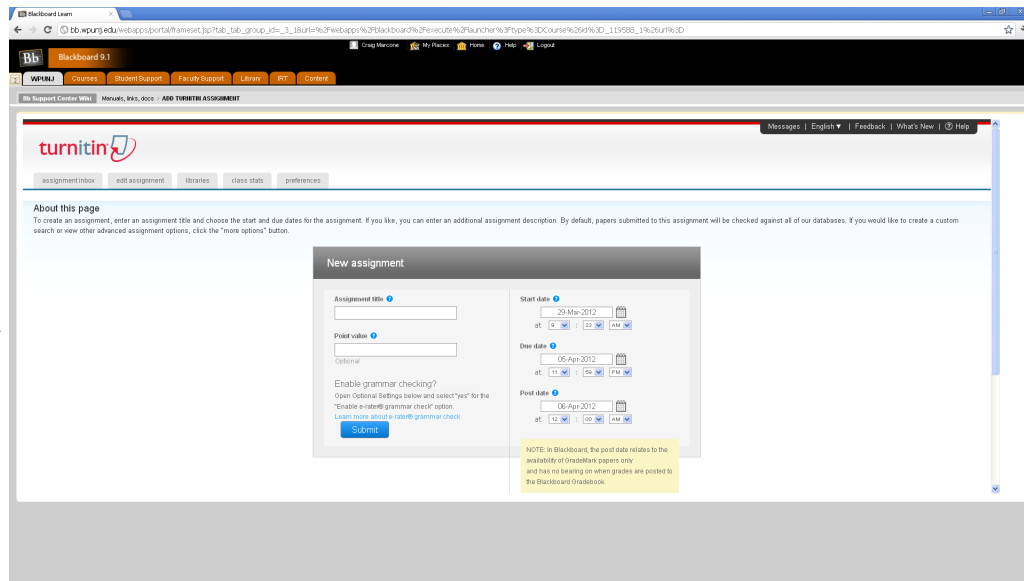
Cheng Library Webpage Gets a New Look and Added Features!

New Library Web Page

The Cheng Library website will have a new look beginning in mid-May. A long process of design review, content analysis and usability studies has resulted in the new front page, which features a less cluttered appearance and tabbed main navigation. Users will also appreciate a dynamic left-side menu and increased prominence of the most-used features and links. The Library website was created in 1995 and has had major redesigns approximately every 6 years since. The Library page as it appeared 13 years ago (1999) can be seen at http://bit.ly/KwCHmN. It's expected that the new Library site will be available on Monday, May 14, 2012.

Next-Generation Library Catalog

Coordinated with the release of the new Library website will be the inauguration of a new Library catalog search interface. The new search tool uses VUFind, an open-source application developed at Villanova University. It features faceted search results, which is the dynamic clustering of results into categories. Users can easily sort and drill down into results by any category. Users will find that the interface closely resembles the search and selection experience of e-commerce websites. VUFind represents a drastic improvement over the current interface and will greatly improve the findability of Library materials. Experience it yourself at http://oxford.wpunj.edu/vufind.

Cheng Library Mobile

With funding from a $2,500 award from LibraryLinkNJ, a New Jersey State Library funded NJ library cooperative, the Cheng Library will shortly put a mobile application into production. The app will be available in the Apple App Store for iOS devices, Google Play for Android devices, and will also have versions available for Blackberry, Windows Mobile and mobile web. Cheng Mobile will feature a library catalog search, access to electronic books, Library hours, news and contact information as well as quick access to other popular resources. Cheng Mobile will be coordinated with other WPUNJ mobile projects and will be cross-linked to create a unified WPUNJ mobile presence.
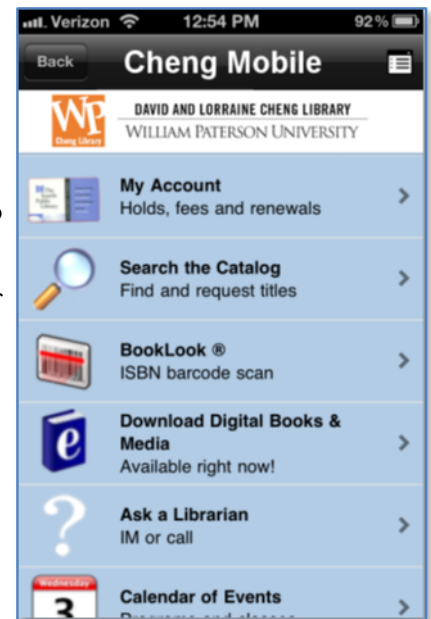
New Teaching and Learning Tools cont'd.

Look for these under Start ->All Programs.

If you are a faculty or staff member who needs a copy of Adobe Design Premium on your desktop or laptop at work, contact the Help desk at ext. 4357. If you would like it for your home computer or laptop, go to WPconnect to get the information for work at home. It's under Employee Applications -> Employee Services. Please note that Adobe allows one key per lifetime. That is one copy, regardless of platform, so you will have to choose either PC or Mac.

Students get special pricing. We have partnered with our bookstore and JourneyEd to offer Adobe software at special pricing. JourneyEd will be offering Adobe products under our agreement at a minimal charge to William Paterson University students. To place the order, students can visit the e-store at www.journeyed.com/select or they may contact their representative, Amrita Sethi at 800.876.3507, Ext 12507 or asethi@journeyed.com to facilitate the order.

Another exciting new teaching and learning tool is web conferencing software for synchronous collaboration online. This is great for both an online class and a face-to-face class that needs to meet outside the classroom. Set up group work, conduct mini-webinars, conduct meetings, and more.

The web conferencing software that won the bid award is **Blackboard Collaborate**.

Bb Collaborate integrates fully into your Blackboard course website. It allows you to set up and conduct online meetings with your students, your students with each other, to meet with colleagues outside of the campus, and to record those sessions, if desired, for future reference. Bb Collaborate offers you a chance to share a whiteboard, websites, documents, Powerpoints, animations, and videos. You can poll your students from time-to-time to ensure their engagement in your discussion (similar to clickers in the face-to-face classroom). There are many more features, too. For more information, contact IRT at x2659.

Toolkit Software Upgrades and Updates—Be Prepared!

Windows 7 – Coming to student labs summer 2012

We are excited to announce that all labs will be upgraded to Windows 7 for the Fall 2012 semester.

Beginning during the week of June 4th 2012, computer labs across campus will start to be upgraded with all labs expected to be completed no later than September 1st 2012. Due to the large volume of lab computers, the upgrade rollout will be performed in a staged installation with public labs being prioritized first.

Key changes in Windows 7:
- Internet Explorer 9.0
- Support for 64-bit software applications
- Significantly improved startup/boot time (compared with XP/Vista)
- Windows DVD Maker
- Thumbnail previews when hovering over an icon on the taskbar
- Aero Peek button (on the taskbar to the right of the time) allows users to see the desktop
- Native support for various video formats (AVI, WAV, MP4)

As each lab is upgraded, all previously licensed and supported applications will be reinstalled. Any questions or concerns can be directed to the Helpdesk at x4357 or help@wpunj.edu.

Office 2010 Update

In order to maintain current versions of the university's standard software toolkit, IS will begin on May 1st 2012 to require a Microsoft Office 2010 upgrade for all faculty and staff that have not yet upgraded. This update will provide the latest Office features and security enhancements as well as prepare office desktop PCs to provide the best Outlook experience for our scheduled email system upgrade (May 2012). Currently, over 50% of the university has Office 2010 and all new PCs will come with the new version. The Helpdesk staff will be contacting individuals who have not yet upgraded to schedule and assist you with installing it on your office PC.

Any questions or concerns related to this update can be directed to the Helpdesk at x4357 or email at Help@wpunj.edu.

University Faculty/Staff Email System Upgrade

In continuing to provide reliable and robust messaging services to the University's faculty and staff, we will be upgrading our Microsoft Exchange Messaging System near the end of May, 2012. The new system will provide a number of enhancements including:
- Increased mailbox storage. No more need for .pst archive files
- Enhanced virus, spam, and malware protection
- A new web access interface (email.wpunj.edu) with an improved user experience
- Improved availability and performance

During this upgrade you will be required to close out of your email for a period of time to ensure a smooth migration. We will be migrating individuals in groups of users/departments, preferably during off hours. The Helpdesk will be in contact to give advanced notification with an anticipated migration time of about one day per group. No email information will be lost, and all incoming mail will be queued and accessible once the migration for the group has completed.

Any questions or concerns related to this update can be directed to the Helpdesk at x4357 or email at Help@wpunj.edu.

7 Things You Should Know About… PROJECTING FROM MOBILE DEVICES

Scenario

Katie, a junior in Music History, plays keyboard on Mondays and Wednesdays in a performance session with her jazz ensemble. On Mondays the group meets with their conductor, Dr. Kerwyn. Their ensemble was one of three chosen to experiment with reading music from iPads. Dr. Kerwyn, who conducts from a score displayed on his own iPad, projects his copy of the score wirelessly onto an LCD TV screen, which is useful for tracking cues. For example, when instruments have dropped out for a number of rests, seeing the conductor's score gives band members a heads-up when the conductor is about to cue their parts. When Dr. Kerwyn gives instructions, he zooms in on a section of the score or circles it to draw class attention to it. If his comments are directed to the guitarist, for instance, he might change the projector feed, pulling it in from the guitarist's iPad to show only the music score for guitar.

This week their group has been working on an original score that Dr. Kerwyn has been writing. Using a whiteboard application that allows him to draw on the iPad with a stylus, he periodically stops the music to write in changes as the music is projected where the ensemble can see it. Students can download to their iPads any changes that affect their parts of the score. Occasionally when they play a newly changed passage, Dr. Kerwyn is dissatisfied and makes other changes. Katie enjoys the live feeling of playing music as it is built, particularly because Dr. Kerwyn has twice asked her opinion on a musical phrase.

On Wednesdays, the ensemble works with Dr. Kerwyn's graduate assistant, Dave. Katie's favorite part of these sessions is the improvisation game Dave conducts. Using a whiteboard app that can project a blank score, Dave draws in the tempo and a starting chord. Then he specifies the chord they will resolve after a specified number of measures. Sometimes he also changes the time signature. With only the count and a few specified chords, the ensemble had some tangles, a few of which were so complete, they ended in laughter. But as the semester approaches midterm, they have far fewer stumbles—even though Dave keeps trying to chal-

1. What is it?

As professionals in the academic community increasingly leave their laptops behind in favor of tablets and similar tools, the pressure mounts for instructional and collaborative spaces to accommodate projection from such mobile devices. Typical projection systems—with their cables, remotes, and data controllers—can be the antithesis of a lightweight, intuitive mobile device. Getting these two technologies to work well together can be harder than it looks, but the rewards are considerable. Mobile projection can provide the equivalent of a low-cost, interactive whiteboard, where diagrams, handwritten observations, and equations can be entered as needed to support class discussion. With a few clicks, the tablet might present lecture slides, interactive maps, or a video about the current topic. Where mobile projection offers wireless control, the instructor can manipulate these changes from anywhere in the room, allowing students to participate in activities using the mobile device. Currently the iPad leads the field in controlling mobile projection, but manufacturers of other tablets are expected to have similar options available soon.

2. How does it work?

There are several ways to control a classroom projector with a mobile device. One requires an iPad, a VGA or HDMI cable, and an LCD TV or projector. This is perhaps the least attractive of the options, however, because it requires cables to connect the iPad to the projector and because, depending on the specific versions of hardware and software being used, another application layer might be required to have true projector mirroring of all types of content being displayed. A second method is to use an iPad to wirelessly control a classroom laptop or desktop that is attached to the projector. In this way, remote connection software such as iTeleport, Doceri, Reflections, or SplashTop can be used to remotely control the connected Windows or Mac computer from the iPad. A third option, inviting in its relative simplicity, is to connect an iPad with an LCD TV or projector using Apple TV. No special software is required to achieve wireless control, with exact mirroring of iPad content. Another emerging technology in mobile projection is small, handheld (or "pico") projectors. Although they have limitations relative to standard projection systems, they offer another option for projecting from tablets and other mobile devices.

3. Who's doing it?

Mobile projection technology has not been available long, and many instructors, departments, and colleges are still experimenting with ways to use it most effectively. In a language course at Smith College, for example, the professor uses a whiteboard app on her iPad to write Korean characters that are projected through Apple TV. She passes the device around to students, who use the stylus to enter questions, responses, and demonstrations for the class. Elsewhere at Smith, Apple projection is used for document sharing—multiple participants, each equipped with an iPad, can work on a single projected document. Similar collaborative efforts using iPad projection can be seen in a University of Tennessee class in environmental and soil sciences. The classroom is set up to accommodate four teams working collabora-

tively on separate parts of a larger class problem. Each team has its own projection and viewing area where Mac Minis drive the display technology and iPads (or laptops) are used to control presentation. Near the end of class, the work of all four teams is combined as the class works to resolve the larger issue.

4. Why is it significant?

Using wireless projection, instructors can hand off the tablet for student input or shift projection sources to allow students to show work from their own devices. Tablets and inexpensive apps make it easy to present ad hoc sketches that multiple participants can revise or music scores for work created and edited on the spot. They can eliminate the document cameras frequently used for formulas in math and chemistry, and they allow input of language text that uses characters unavailable on a standard laptop keyboard. Groups using iPads may come up with different content maps, different solution sets, or alternate answers to problems, which can then be projected to share with the entire class. A standard projection system with cables and a laptop can create a barrier between instructor and student, as it forces presenters to manipulate their content from a single location. Wireless mobile projection offers a solution that can clear valuable space in a room of any size, opening up more effective communication, allowing instructors to move throughout the class, and creating new opportunities for sharing content with students.

5. What are the downsides?

Perhaps the biggest drawback to mobile projection is that not all tablets can take advantage of it. To date, it is only available for iOS devices and Android tablets and phones equipped with an HDMI port, though the list of options is changing rapidly. Where it is available, proper network configuration can be a significant challenge. Apple TV, for example, is not designed with many of the safeguards expected in an enterprise network environment, leading to concerns about who—and under what conditions—has control of the content displayed. Finally, a mobile projection setup can require considerable tweaking to get all hardware and applications to work properly.

6. Where is it going?

Mobile devices are approaching ubiquity, and the ability to project from them is increasingly valuable in educational contexts. The technologies to provide this capability are evolving very quickly, and experimentation is already under way at several campuses to control classroom projection from hardware using the Android OS. Apple has recently announced that Apple TV will support wireless projection from Mac laptops. Already, users with smartphones can access cloud-based presentations and project them for group viewing. As mobile projection becomes more common, presenters may be more likely to bring their own tablets and smartphones as their first choice for controlling the presentation or as a backup in case the provided technology fails. In the end, fewer classrooms might need to be equipped with the computers that currently control projection. Also, classrooms (such as seminar rooms) that in the past could not easily accommodate permanently installed computers can now become technologically enabled.

7. What are the implications for teaching and learning?

Projecting lecture slides, websites, and other data from a mobile device wirelessly changes the character of communication and interaction in the classroom. The instructor who is not tethered to a lectern can move freely among students, passing the tablet controller to any student who wants to present visual information. This allows students to make an easy transition from content consumers to content creators. Where the projection system functions as an electronic whiteboard, the iPad can provide improved accessibility. A handheld device can be easier to manage for those who have difficulty reaching the top level of a physical whiteboard and can similarly provide convenience for those with mobility concerns. Finally, using the iPad as an electronic whiteboard means instructors can retain an archival copy of their in-class notes to share with students or to check subsequently to see how they explained a point, presented a formula, or provided crucial information.

EDUCAUSE

Please Welcome Dante Portella to IRT!

Dante Portella joins IRT as the newest professional staff member serving the University on the Broadcast, Production and Support (BPS) team. Dante has been a staff engineer at a large format recording facility for 4 years and has been specializing in mobile location recording of all styles of music throughout New York, New Jersey, Connecticut, and Pennsylvania area for almost 10 years. Dante has been putting his audio skills to work throughout campus fixing equipment for the television studios, the Jazz Archive, the Rec Center, Hunziker and Shea audio racks, and the Martini Broadcast studio. He has also been a part of several BPS/IRT video projects including Martini Studio productions and the recent award winning video on environmental sustainability for the Planet Forward Climate Leadership Awards. This summer, Dante will be consulting on the renovation of the Communication Department's TV Studios.

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