WIC iPADS IN THE CLASSROOM PROJECT UPDATE

Update to the September 2012 Report
July 2013
Weigle Information Commons, University of Pennsylvania Libraries
By Caitlin Shanley, Educational Technology Librarian

INTRODUCTION
The David B. Weigle Information Commons (WIC) is a collection of collaborative learning spaces augmented by student assistance services, located in the Van Pelt-Dietrich Library Center at the University of Pennsylvania. In addition to providing space for students to work together and utilize the latest technologies, WIC also holds workshops, hosts student services from Program Partners, and lends digital media equipment. A detailed report on the first year of the iPads in the Classroom project can be found on the WIC website.

USAGE OVERVIEW
During the period from September 2012 through May 2013, WIC staff received over 30 new requests to borrow iPads for course and other academic use.

The following classes have used iPads:

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Faculty Name</th>
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<tbody>
<tr>
<td>SOCI 041: Diversity, Technology and the Penn Experience</td>
<td>Janice Curington</td>
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<tr>
<td>ENGL 263: Literature of the Great Depression</td>
<td>Catherine Turner</td>
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<tr>
<td>CPLN 622: Community Development and Public Health</td>
<td>Roy Wade</td>
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<td>FNAR 488: Senior Seminar in Fine Arts</td>
<td>Orkan Telhan</td>
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<td>BE 200: Intro to Biomechanics</td>
<td>LeAnn Dourte</td>
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<tr>
<td>MUSC 031: History of Symphony</td>
<td>Bradley Smith</td>
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<td>GSWS 320: Contemporary Feminist Thought</td>
<td>Demie Kurz</td>
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<tr>
<td>EDUC 735: Tutorial Work in Reading/Writing/Literacy</td>
<td>Katrina Nejuan Burns</td>
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<td>FNAR 211: Color</td>
<td>Diane Lachman</td>
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<td>WRIT 016: Race and Popular Cinema</td>
<td>Jacqui Sadashige</td>
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<tr>
<td>WRIT 002: Craft of Prose</td>
<td>Jacqui Sadashige</td>
</tr>
<tr>
<td>FNAR 489: Senior Seminar in Fine Arts</td>
<td>Kristen Goldschmidt (coordinator)</td>
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<tr>
<td>ARCH 728: Design of Contemporary Products</td>
<td>Carla Diana</td>
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<tr>
<td>VLST 395: Senior Seminar in Visual Studies</td>
<td>Megan Velong (coordinator)</td>
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<tr>
<td>FNAR 268/568: Integrative Design Studio: Cultures of Making</td>
<td>Orkan Telhan</td>
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<tr>
<td>EL 700: Listening to Lectures</td>
<td>Brian McManus</td>
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In addition to class projects, librarians, faculty, staff and students have borrowed iPads for meetings, training and exploration. Notable activities included:

<table>
<thead>
<tr>
<th>Project / Activity</th>
<th>Faculty / Staff Name</th>
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<tbody>
<tr>
<td>Tools, Not Toys Workshop Series</td>
<td>Weingarten and WIC Staff</td>
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<td>Penn Libraries Donor Visits</td>
<td>Allison Leib</td>
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<tr>
<td>Penn Libraries Orrery Society Meeting</td>
<td>Kristin Winch</td>
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<tr>
<td>iPad Session for Minority Faculty / Academic Clinicians</td>
<td>Karen Grasse, Kenric Murayama</td>
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<td>Social Planning and Events Committee (SPEC) Ticket Sales</td>
<td>Katie Bonner</td>
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<tr>
<td>Mobile App Demo for Penn Admissions</td>
<td>Chris Mustazza</td>
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<tr>
<td>Gadget Day and iPad WICshops</td>
<td>Various WIC Staff</td>
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**PROJECT DETAILS**

**PAIR-SHARE VIDEOS**

Students in Janice Curington’s first year sociology seminar used the iPads to record video interviews. Working in pairs, students captured video of each other recounting stories of personal identity formation. The students and a teaching assistant transferred the videos to a hard drive borrowed from the WIC Equipment Lending Program, and they were stored privately. At the end of each class session, the students screened one of the video interviews and talked about their experiences.

**iPADS AND RARE BOOKS**

Cathy Turner’s literature class borrowed the iPads three times over the course of the semester. Students came into the library, where librarians John Pollack and Bob Walther had pulled printed materials (including books and periodicals from the Rare Book and Manuscript Library) for the students to examine in class. While looking at the printed materials, students used the iPads to access online content and to collaborate on exercises using Google Drive. Read Turner’s reflections on her experience in her guest post on the PennWIC blog.

**ANNOTATED SCORES IN REAL TIME**

Brad Smith taught a course on the history of symphony viewed through historical, cultural and musical lenses. The course centered on musical performance, but Smith often referred to printed scores and historical documents in class. Importantly, Smith hoped to play music while marking up orchestral scores in real time. By syncing music and documents to the iPad, Smith was able to play recordings while displaying and annotating musical scores and other documents during the class session.

**BLOGGING ON THE GO**

Jacqui Sadashige’s critical writing students compose blog posts about four times a week. Sadashige arranged for her students to borrow iPads at different times of the semester in the hopes that carrying the small form factor devices would encourage them to blog more spontaneously. When asked to reflect on her experience, Jacqui wrote:

“It seems to me that the class that had the iPads at the end of the semester maintained blogging much more regularly. The blog component of their assignments is required during the first half of the semester to establish regular writing and develop community. The class that had the iPads at
the end kept blogging, even though they had them during Spring Fling. That class also tended to include more visual data (photos, charts, etc) in their final essays.” (Email, 5/28/2013)

STUDENT ARTWORK
Instructors from several courses in Fine Arts, Architecture and Visual Studies borrowed WIC iPads to display student work in exhibitions. The figure below shows a photograph of a project completed for Carla Diana’s architecture course, in which students designed everyday products enhanced by information technology. To read more details on this project, see this post on the PennWIC blog.

![Photo courtesy of Carla Diana.](image)

NOTE-TAKING IN LECTURES
Inspired by Penn student Oliver Jenkins’s talk at Gadget Day on April 26, 2013, Brian McManus decided to use the Notability app and iPad styluses to help students in his English language course practice taking notes during lectures. Notability allowed them to capture their handwriting along with recorded audio, so that written notes were associated with time-stamped audio they could return to for later review.

APPS FOR ACADEMIC CLINICIANS
During a March 21, 2013 presentation for the Minority Faculty Development (MFD) Academic Clinician Cohort in the Perelman School of Medicine, Kenric Murayama demonstrated many of the apps he uses in his clinical practice. In his role as Chief of Surgery at Penn-Presbyterian Medical Center, Murayama uses his iPad for clinical and administrative tasks, but also for teaching and presentations. Read more about the demonstration in a summary post on the Apps on Tap blog.
TOOLS, NOT TOYS WORKSHOP SERIES
Chia-Ying Pan, Brian Cuzzolina and Rashmi Kumar from Weingarten Learning Resources Center (VPUL) collaborated with WIC staff on a workshop series about apps for academic success. The series was presented as three workshops during the Fall 2012 semester, and extended to four workshops for Spring 2013 (based on student feedback). The workshops provided foundational information about time and project management, note-taking and mind mapping skills, along with demonstrations of useful mobile apps. Read more about the workshop series on the WIC website.

TECHNICAL UPDATES

NEW SOFTWARE AND WORKFLOW
One of the most significant advances for the WIC iPad Program this year was a change in the software used for device management. While WIC staff originally used iTunes to manage the iPads, it became evident that the software was not optimized for managing a large set of devices. In order to take full advantage of the Bretford cart used for iPad storage and to allow WIC staff to prepare and lend devices quickly and efficiently, it made sense to switch software and move the workflow from iTunes to Apple Configurator. This free application provides a number of advantages, including the abilities to deploy paid apps through the Apple Volume Purchasing Program, to create customized settings and deploy them on many devices at once and to store credentials on the iPads so they leave the cart already connected to wireless internet through AirPennNet. We are grateful to our colleagues in the ISC Client Services Group – including Vern Yoneyama, Andre Harris and Ted Moskalenko – for their help with our exploration of stored AirPennNet credentials.

APPS INSTALLED SINCE SEPTEMBER 2012
- iBrainstorm
- 2Do
- Inspiration Maps Lite
- Google Drive
- CloudOn
- Box
- Awesome Note Lite
- AudioNote
- Notability
- CamScanner
- Instagram
- Tumblr
- Leafsnap
- Penultimate
- SlideShark
- PocketCloud Remote Desktop
- Junos Pulse
CONCLUSIONS

NEXT STEPS
In future months, we plan to explore possibilities for automating the iPad lending process. At present, participants submit a Google Form to reserve the iPads, and WIC staff communicate with them directly to coordinate dropoff and pickup. We intend to pilot other options for reservation, including the platform we currently use for our Equipment Lending Program, WebCheckout.

RECOMMENDATIONS FOR USING iPADS IN THE CLASSROOM
Based on reported success stories from our program, we have compiled the following list of brief recommendations for using iPads for teaching and learning:

• Present without being tied to a podium using SlideShark or Keynote.
• Mark up documents or use the tablet as a whiteboard with an app like iAnnotate PDF.
• Distribute course materials through a mobile-friendly LMS (like Canvas) and have students consult and discuss readings in class.
• Assign multimedia journal writing and ask students to compile text along with photos, videos and audio recordings.
• Collaboratively edit documents in class.
• Create Google Maps incorporating course content while physically visiting locations.
• Have students record audio or video pair-share interviews.

SUGGESTIONS FOR REPLICATION IN OTHER LIBRARIES
Based on lessons learned during the first two years of our iPad lending program, we have compiled the following list of brief suggestions for iPad program deployments within a library context:

• Consider how you will store the iPads. WIC uses a Bretford PowerSync Cart to store 33 iPads (30 fit into slots in the cart, while the others sit on an interior shelf). While a cart is not necessary, it has proved helpful for device management, storage and charging, while taking up relatively little space.
• Decide what device management software works best for your context. If you are only managing a few iPads, iTunes can be a good option. Apple Configurator can manage a larger set of iPads all at once, but is available only for Mac. The most robust management software options are mobile device management (MDM) products like JAMF and Absolute Manage MDM. These programs allow for a high level of control over a large number of devices, but have a significant cost.
• Determine whether or not to install paid apps on the devices. For a large set of iPads, the Volume Purchase Program for Education can be a cost saver, but involves some administrative tasks, such as choosing a Program Manager and creating an Apple ID.
• Prepare for wireless internet setup on the devices. At some institutions, wireless networking infrastructure may pose a challenge when lending tablets. Consider partnering with your central IT department to devise a secure solution while streamlining lending.
• Explore options for lending the popular devices to minimize staff time spent on circulation. One way to implement lending may be to add the devices to a system that is already in use, like an integrated library system.

FOR FURTHER READING AND EXPLORATION

• **WIC iPads in the Classroom Program page**
  Homepage for the program. Includes links to reserve iPads, availability calendar, policies, etc.

• **Tablets at WIC**
  Overview of tablets available for exploration in WIC.

• **CamScanner for Apple and Android**
  PennWIC blog post from a first-year student in SEAS and Wharton.

• **Apps on Tap blog posts on iPads**
  Posts tagged “ipad” from the Penn Libraries Apps on Tap blog.

• **Gadget Day Spring 2013 videos of interest** (for complete information on sessions, see [our website](#))
  - Present Wirelessly on an iPad with SlideShark
  - Shoot Hands-Free Video with Swivl
  - My Top iPad Apps: A Student Perspective
  - Mobile Technology Trends
  - Share Documents with Penn+Box for Mobile
  - Fitness Goes Mobile

APPENDIX

Publicity flyer to advertise iPads in the Classroom Program (attached)