

A Quick Look at Educational Technology at UCI

June 1st, 2015

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Overview

- Campus Updates
- Classrooms and Labs
- Instructional & Student Support
- Third-party Tools
- Learning Management Systems
- Online Learning



- Campus Leadership Updates
- About OIT Student & Academic Services
- New Committees & Workgroups
- Partnerships & Collaborations
- Student Information System Update

CAMPUS UPDATES



Campus Leadership Updates

- New Vice Provost of Teaching and Learning & Dean of the Division of Undergraduate Education (DUE) – Mike Dennin (5/1/2015)
 - Distance Learning Center
 - Summer Session
 - Teaching and Learning Center
 - A new Center on research of teaching
 - Two new associate deans to be hired for DUE
- A new Chancellor – Howard Gillman
 - Increase the size of our permanent faculty by 250 or around 20 percent;
 - Increase our funded research activity from \$300 million per year to \$500 million per year
 - Increase the size of our student body to 40,000 total students, through a combination of new on-campus and online students.
- A new Provost & Executive Vice Chancellor – Enrique Lavernia



About OIT Student & Academic Services

- New division within OIT, established 10/2014
- SAS vision:
 - *Our guiding principle as a division is that the Student and Academic Services Division, or SAS, consists of all centralized IT Support for the campus faculty and student communities. SAS acts as a fast moving, nimble technology partner in conjunction with the evolving needs of faculty and students. Our 3 guiding principals: Innovation, Collaboration and Nimbleness.*
- Groups within SAS:
 - **Instruction & Research Infrastructure:** SmartClassroom Operations, Classroom Technology Planning & Outreach, Instructional Labs Support, Research Computing Support, Athletics IT
 - **Student & Academic Services:** Academic Web Technologies (Learning Management System and Third-party tools), DUE Data & Development, Academic Applications
 - **Student Affairs Support:** Student Life & Leadership IT, Student Affairs IT, The Hill Bookstore IT, Student Center & Event Services IT, Housing Application Development, Housing IT, Wellness Health & Counseling Services Web & Application Development
 - **Executive Application Support:** UC Recruit Application Support, Chancellor & Provost IT



New Committees & Workgroups

- Provost's Advisory Committee for Technologically Enhanced Education (PACTEE)
 - Changes in technology and pedagogy are fundamentally changing how learning spaces will be used
 - Technology Services Workgroup
 - Learning Spaces Advisory Committee
- IT Accessibility & Closed Captioning Workgroup
- LMS Workgroup
- Instructional Video Workgroup



Partnerships & Collaborations

- Instructional technology at UCI is highly collaborative and distributed for the instructional component, but integrated and consolidated for IT support
- The EEE Collaboration
 - Division of Undergraduate Education (DUE)
 - Distance Learning Center
 - Summer Session
 - Office of Information Technology (OIT)
 - Academic Web Technologies
 - Classroom Technology Planning & Outreach
 - UCI Libraries
 - University Registrar
 - University Extension
- Academic Senate (consulted for issues related to instructor evaluations)



Student Information System Update

- Site: <http://sites.uci.edu/sisproject>
- Vendor selected (Ellucian)
- Since last year...
 - RFP's solicited and evaluated
 - SIS product selected
 - Contract approved
 - Project budget approved
- Currently in implementation phase



Computing Labs
Virtual Computing Lab
SmartClassrooms

CLASSROOMS & LABS



Computing Labs

- Statistics for Winter 2015
 - 14 computer labs – 520 seats for drop-in/instructional/training
 - 122,237 logins to labs & SmartClassrooms
 - 870 class sections scheduled in Instructional labs
 - 57,378 pages printed in labs
- June 2014: Libraries Gateway Study Center lab updated with 67 new Windows PCs and 20 new Macs
- Software packages
 - Varies from lab-to-lab
 - Office, RefWorks, SPSS, Solidworks Viewer, Luna Insight, LEGO Mindstorm, SAS, RobotC, Cran R, ArcGIS, Artstor OIV, Crystalline Solids, Alteryx, Adobe Creative Suite, Final Cut Pro, Mathematica, Matlab, Mathcad, ChemDraw
- More info: <http://www.oit.uci.edu/computing/labs/>



Virtual Computing Lab

- Collaboration with Cal State- Fullerton (CSUF)
 - UCI and CSUF have partnered to expand the use of VCL while funding CSUF to further develop the VCL service
- Allows remote access to expensive software, such as SPSS for up to 2 hours per session
- UCI recently completed pilot test of CSUF Virtual Computing Lab service for a set of UCI classes
- Pilot test was recently completed; UCI plans to market the service to more classes



SmartClassrooms

- 131 SmartClassrooms (out of 133 general assignment classrooms)
 - On-demand support via phone or consultant
- Equipment & Software
 - Projectors: Overhead, 16:10 data
 - Sound system (speakers, USB microphone for lecture capture)
 - PC (can also use own laptop)
 - Lecture capture via UCI Replay
 - Blu-ray players
 - i>Clicker base station (audience response system)
 - Lecture halls also have document cameras, Wacom tablets, wireless mics (lapel and handheld)
 - Software packages
 - Office, ArtStor, Cran R, Secrets, SPSS, Google Earth, Eviews, RStudio, various media playback tools
- Work continues on Innovative Classroom in a building in the School of Social Ecology
- More info: <http://www.classrooms.uci.edu/smartclassrooms.html>



Instructional Content Distribution
Google Apps for Education
Edu Tech Fee Initiative (eTech)

INSTRUCTIONAL & STUDENT SUPPORT



Instructional Content Distribution

- UCI Replay
 - Lecture capture & distribution
 - Powered by TechSmith Relay & Encoder
 - Stats for 2015
 - Unique visitors: ~11,610/month
 - Data transferred: 99.9 TB since 1/1/2015
- Sites @ UCI & Faculty Sites
 - Easy-to-use on-demand websites
 - Powered by Wordpress
 - Stats:

	Sites @ UCI	Faculty Sites
# sites	1,694	364
# registered users	9,178	824



Google Apps for Education

- Collaborative Toolset
 - Gmail for email
 - Drive for document sharing, collaboration & file storage supporting instruction, research, and administrative needs
 - Sites for collaboration
- Availability
 - Default service for new undergraduate students since Summer 2012
 - Opt-in service for all current students, faculty, and staff
- More info: <http://google.uci.edu/>



Edu Tech Fee Initiative (eTech)

- Began in Winter 2012 to maintain and extend technology for students
- Fee: \$4/undergraduate lecture course unit (max \$60/quarter, \$180/year)
- Governance via Educational Technology Initiative Advisory Committee (ETIAC), made up of faculty, staff, and students
- Projects: wireless service expansion, additional power outlets, classroom enhancements, LMS, and additional support staff
- More info: <http://etech.uci.edu>



About Third-Party Tools
Instructional Cloud Computing

THIRD-PARTY TOOLS



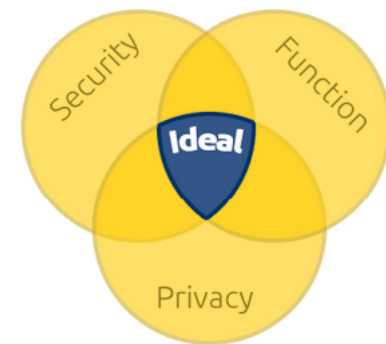
About Third-Party Tools

- Apps, tools, and resources created by groups outside the University
 - Often free or low-cost (but sometimes not, such as Turnitin)
- Useful and important, and people are already using them:
 - Significantly expand the capabilities of the university (i.e. dynamic message boards, audience response, simulations, audio/video production and distribution)
 - Eliminate the need to reinvent the wheel
 - Tool providers market heavily to university faculty
 - Instructors want them integrated into the LMS
- But:
 - Vendor often doesn't have a contractual agreement/sponsorship from the University
 - Tool providers are not always well-informed about academic needs (i.e. analytics, privacy, FERPA)
 - Instructors are not always aware of potential harm
 - Students expect instructors are doing no harm



Instructional Cloud Computing Committee

- Addresses campus need for a policy, guidance, and advocacy resource for third-party tool usage
- Includes staff from multiple units:
 - OIT (instructional support, information security)
 - Distance Learning Center
 - Purchasing & Risk Services
- Implemented a comprehensive review process to rate third-party instructional technologies on functionality, privacy, security, policy compliance (student records), and legal concerns
 - <http://sites.uci.edu/cloud/>
- Led initial efforts to secure a contract with Piazza, which has now transitioned to a UC-wide effort





EEE

Canvas at UCI

UCI Canvas Pilot

UCI Extension Canvas Transition

LEARNING MANAGEMENT SYSTEMS



EEE, UCI's Course Management System

- Homegrown system developed over past 17 years
- Used by main campus – 10 schools, 80+ programs, 24,093 (99.7%) students, 86.26% of instructors
- Assessment
 - Quiz, Survey, Evaluations, Eater Evals
- Communication
 - WebsiteManager, Announcements, ClassMail Manager, Replay Publisher
- Collaboration
 - DropBox, MessageBoard, Chat, Wiki
- Class Administration
 - GradeBook, Rosters, Assistants, SignupSheet
- EEE Mobile
 - MWF-powered web app to look up schedule, grades, tasks
- More info: <https://eee.uci.edu>



Canvas at UCI

- Main campus: UCI Canvas Pilot, running from Spring 2015 through Winter 2016
- College of Health Sciences: Adopting Canvas
- University Extension: Migrating to Canvas for Spring 2015
 - Includes Distance Learning Center courses
- Composition Program: Migrated to UCI Canvas Pilot in Spring 2015



UCI Canvas Pilot Project

- 1 year pilot of the Instructure Canvas learning management system
- Pilot is 4 quarters: Spring 2015, Summer 2015, Fall 2015, and Winter 2016
 - Spring: 270 classes, 5853 students
 - At least one class from each of UCI's 10 schools
- OIT handling all client-facing support; end-users not interacting with Instructure
- Distance Learning Center running nearly all online Summer classes in the UCI Canvas Pilot
- Pilot assessment includes panels, focus groups, and 3 surveys each quarter
- More info: <http://sites.uci.edu/canvaspilot/>



Instructor Evaluations Suite

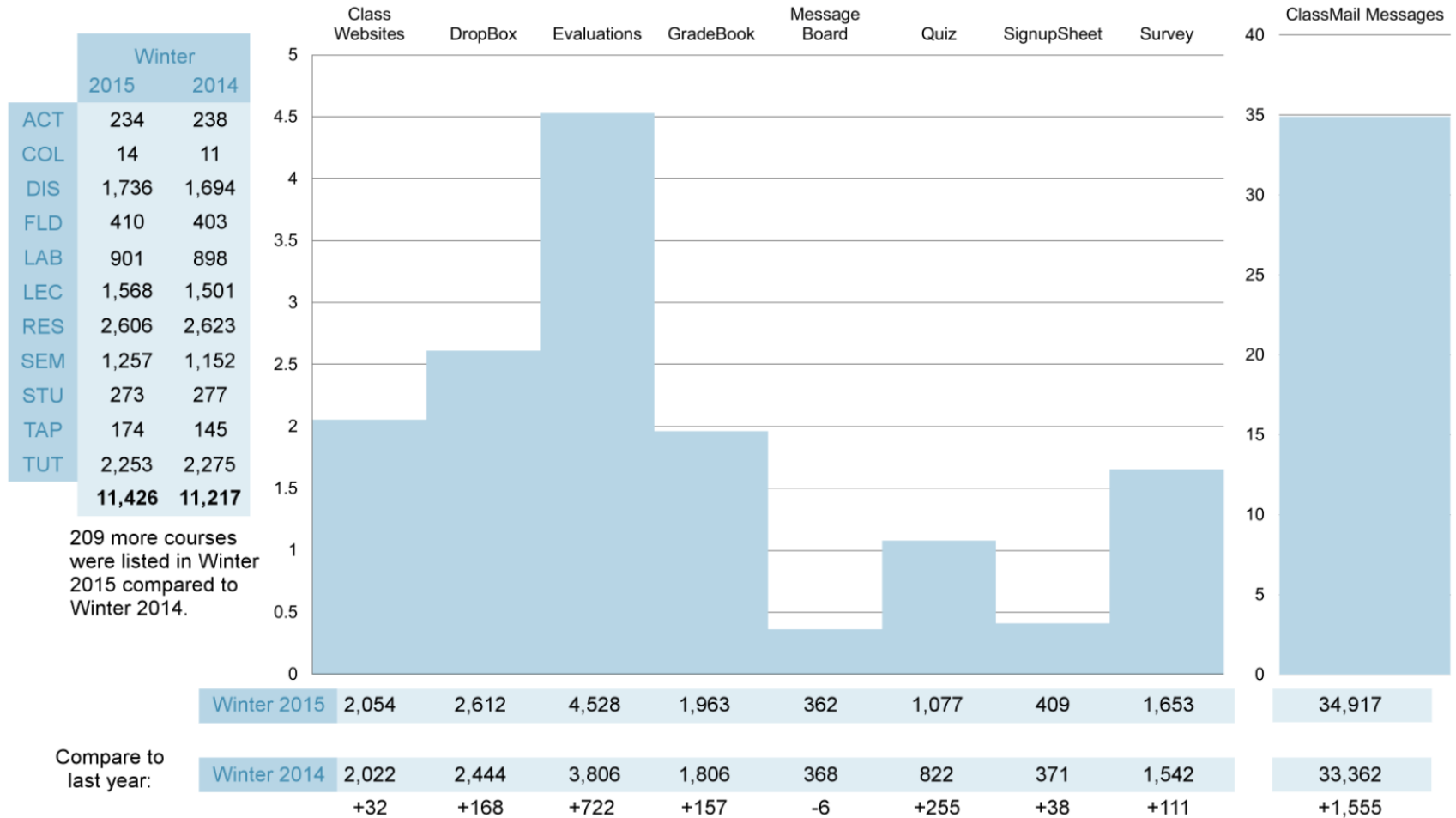
- Partnership between OIT (development and technical support) and Academic Senate (policy expertise and support)
- **EaterEvals** – <https://eaterevals.eee.uci.edu>
 - Student view of quantitative evaluation results of instructors
 - Partnership between Academic Senate – Council on Student Experience, Division of Undergraduate Education, Associated Students of UCI, and OIT
 - Approval to include graduate-level courses, but hasn't been implemented yet
- **Evaluations**
 - System for instructors to activate & monitor evaluations and students to securely submit evaluations of their instructors
 - Designed to gather useful feedback via secure and anonymous student evaluations
 - Integrated with EEE
- **Department Evaluations**
 - Departments activate official instructor evaluations via intuitive web-based tool
 - After close of final grades submission due date, results available to instructors and department staff
 - Results available online, via CSV download, and as a formatted PDF document for faculty files
 - Integrated with EEE



Statistics – Winter 2015

- 99.7% of undergrads, 86.3% of instructors

Tool Usage Statistics





UCI Extension's Canvas Transition

- Instructure Canvas replacing Moodle
- Part of the long-term educational technology vision for continuing education and international programs
- Full launch in Spring 2016
 - No ramp-up or pilot period
- Distance Learning Center is providing full support for project management, training, and course migration



Online Undergraduate Courses
Massively Open Online Courses
ILTI / UC Online
OpenCourseWare

ONLINE LEARNING



Online Undergraduate Courses

- Distance Learning Center involved in design and delivery of online courses
 - Partnership with OIT to deliver nearly all such courses through the UCI Canvas Pilot
 - Select others offered through ILTI, Moodle, or EEE
- UCI is offering a total of 81 online undergraduate courses across 160 sections this summer
- All General Education categories are represented



Massively Open Online Courses

- Or, MOOCs
- UCI has offered a total of 39 MOOCs to 1.3 million students through Coursera and Canvas Network
 - Coursera: <https://www.coursera.org/uci>
 - Canvas: <https://www.canvas.net/browse/ucirvine>
- Topics range from career readiness, to the sciences, to *The Walking Dead*
- Taught by an even mix of UCI faculty and UCI Extension instructors



ILTI / UC Online

Class	Instructors
Writing 39A: Intro to Writing & Rhetoric	Alberto Gullaba Jr., Daniel M. Gross
Social Science 1A: Principles in Soc Sci	Joanne Christopherson
Physics 7E: Classical Physics	Phil Collins
ICS 5: Global Disruption	Bonnie Nardi, Don Patterson, Bill Tomlinson
Physics 20A: Introduction to Astronomy	Terry Smecker-Hane
Math 1A/1B: Pre-Calculus	Sarah Eichhorn and Rachel Lehman
Chemistry 1P: Prep for General Chemistry	Eric Potma

- More information: <http://www.uconline.edu/upcoming-courses/>



OpenCourseWare

- Launched November 2006, first West Coast university and first UC to join OCW Consortium
- **Collections** are curated sets of materials/videos, including:
 - Open Chemistry
 - INSIDE UCI: Freshman Start
 - California Subject Exam for Teachers – Prep Resources
 - Orange County Alliance for Community Health Research
 - UCI Law School Video Collection
- 2 ACE-accredited math courses (pre-calculus and algebra) delivered on Coursera
- More info: <http://ocw.uci.edu>



QUESTIONS?