**Annual Report**
**July 1st, 2014 - June 30th, 2015**
**Educational Technologies at Missouri (ET@MO)**

Dr. Danna Vessell  
Director

*ET@MO advances the meaningful use of educational technologies in teaching and learning at Mizzou through various programs, consultations and activities. We serve the learning technologies needs of MU faculty members, staff and students.*

In accordance with the MU Strategic Operating Plan, the professional staff at ET@MO continually strive to:

1) Provide an inclusive center for teaching well with technology.
2) Provide high quality technical and pedagogical support for instructors teaching with technology and second-level educational technology support for students.
3) Promote and maintain excellence in course design and development.
4) Work to increase and enhance web-assisted, hybrid, and online courses offered at Mizzou.
5) Support innovation in teaching with technology.
6) Advance faculty development at Mizzou.
7) Promote the scholarship of teaching and learning.
* Also includes some non-Mizzou students (e.g. Students from Course Sharing, Great Plains IDEA, etc)
## Educational Technology Use @ Mizzou

<table>
<thead>
<tr>
<th>Service</th>
<th>FY2014</th>
<th>FY2015</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Learning Management (Blackboard)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Percent of MU Courses using Bb</td>
<td>71%</td>
<td>78%</td>
</tr>
<tr>
<td>Students using Blackboard [3]</td>
<td>35,151</td>
<td>36,806</td>
</tr>
<tr>
<td>Percentage of MU Students w/ Bb Account</td>
<td>97%</td>
<td>94%</td>
</tr>
<tr>
<td>Student Enrollments in Bb Course Sites</td>
<td>262,000</td>
<td>270,835</td>
</tr>
<tr>
<td><strong>Lecture Capture (Tegrity)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course Sites Utilizing Tegrity</td>
<td>1,080</td>
<td>1,102</td>
</tr>
<tr>
<td><strong>Synchronous Collaboration (Bb Collaborate)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Virtual Classrooms [1]</td>
<td>5,329</td>
<td>6,984</td>
</tr>
<tr>
<td>Students using Collaborate</td>
<td>17,113</td>
<td>17,714</td>
</tr>
<tr>
<td><strong>e-Portfolios (Sakai)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Sites Created</td>
<td>165</td>
<td>148</td>
</tr>
<tr>
<td>Student Enrollments in New Sakai Sites</td>
<td>3,604</td>
<td>2,522</td>
</tr>
<tr>
<td><strong>Media Encoding &amp; Distribution (Kaltura)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Media Views by Students and Faculty</td>
<td>98,779</td>
<td>153,124</td>
</tr>
<tr>
<td>Students and Faculty using Kaltura</td>
<td>9,218</td>
<td>10,172</td>
</tr>
<tr>
<td><strong>Media Blogging (VoiceThread)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student Enrollments in Voice Thread sites</td>
<td>748</td>
<td>2,846</td>
</tr>
<tr>
<td><strong>Student Response Systems</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Courses Using i&gt;Clickers</td>
<td>121</td>
<td>139</td>
</tr>
<tr>
<td>Courses Using Top Hat</td>
<td>n/a</td>
<td>76</td>
</tr>
<tr>
<td><strong>Originality Checking &amp; Plagiarism Detection (TurnItIn)</strong></td>
<td>n/a</td>
<td>132</td>
</tr>
<tr>
<td>Instructors using TurnItIn in their courses</td>
<td>n/a</td>
<td>2,147</td>
</tr>
</tbody>
</table>

### Instructional & Pedagogical Support

<table>
<thead>
<tr>
<th>Service</th>
<th>FY2014</th>
<th>FY2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unique <em>Instructors</em> Who Consulted with an Instructional Designer or Instructional Developer one or more times</td>
<td>[2]</td>
<td>336</td>
</tr>
<tr>
<td>Unique <em>Courses</em> Worked on by an Instructional Design/Developer</td>
<td>[2]</td>
<td>174</td>
</tr>
<tr>
<td>Quality Course Reviews</td>
<td>8</td>
<td>9</td>
</tr>
</tbody>
</table>

### Faculty Development, Training, & Awards

<table>
<thead>
<tr>
<th>Service</th>
<th>FY2014</th>
<th>FY2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Celebration of Teaching Registrations</td>
<td>400</td>
<td>460</td>
</tr>
<tr>
<td>Department Workshops or Presentations</td>
<td>74</td>
<td>66</td>
</tr>
<tr>
<td>Campus-wide Teaching and Technology Sessions</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Faculty TeAchnology Participants</td>
<td>6</td>
<td>5</td>
</tr>
<tr>
<td>Excellence in Teaching with Technology Award Winners</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Teaching with Technology Innovation Fund Awardees</td>
<td>5</td>
<td>11</td>
</tr>
<tr>
<td>Mid-semester Student Feedback on Teaching- Course Surveys (MoCAT)</td>
<td>752</td>
<td>721</td>
</tr>
</tbody>
</table>

1. A single Blackboard site or course may have multiple virtual classrooms.
2. We changed the definition and data collection method for this FY2015 report cycle that does not allow for direct comparison of numbers obtained from FY2014.
3. Also includes students not enrolled on Columbia campus (e.g. Course Sharing, IDEA Consortium, etc)
Program Highlights

ET@MO plays a vital role in teaching and learning at the University of Missouri for both on-campus and online courses. ET@MO works with all MU faculty on course design, content development, technical consultations and support. These range from correcting a simple technology issue, to working with faculty over months on an in-depth design and development course collaboration. Together, the members of ET@MO provide deep expertise needed to perform the overall mission of the department with a rich diversity of experience that faculty can draw upon to support them in whatever teaching and learning need may arise.

One of the main projects of the past year was conducting the campus wide, extensive review of the learning management system at MU. This included conducting focus groups, surveys, vendor presentations as well as working with multiple groups at the university.

After an extensive review and recommendation process, the faculty at Mizzou, ET@MO, DoIT, and the Provost agreed to further explore Canvas, a new Learning Management System product offered by Instructure as a potential replacement for Blackboard. As a result all members of ET@MO have devoted a significant time investment over the past fiscal year into acquiring deep expertise of the Canvas LMS, and supporting the faculty members who are exploring it. In addition to the product itself, time has been spent exploring the various integrations necessary to seamlessly connect Canvas to the various third party platforms, as well developing new training materials and processes, and doing research on the experience. We hosted approximately 3,000 students in Canvas for the summer session, and anticipate almost 7,000 for the fall 2015 semester.
Strategic Conversations

The staff members at ET@MO were able to assist with the dissemination, coordination, and strategic planning of issues surrounding teaching and technology on multiple levels by serving on or chairing the following campus committees:

- Technology Evaluation subcommittee
- MU Information Technology committee
- Campus IT coordination committee
- Campus course evaluation committee
- Campus eContent committee
- UM eLearning Academic council
- Learning Spaces committee
- LMS Review working group
- Learning Technologies Intercampus consortium
- HLC accreditation committee
- Distance Education operations committee
- Disability Advisory committee
- Wireless Presentation in the Classroom committee
- Mizzou Online Advisory Council
- Mizzou Online Operations group
- UM System Course Sharing
- Self-paced Task Force
- Nursing Curriculum Redesign committee
- Accessibility Standards working group
- DHS Online Bachelor of Public Health Program steering committee
- MU IT Transition organizational structure subcommittee
- Campus Writing Board
- Title IX Hearing Panel

ET@MO staff members also volunteer to serve on a number of committees internal to ET@MO designed to garner deep expertise on a variety of topics that are salient to the educational technology domain today including:

- Mobile Learning committee
- Digital Citizenship committee
- eTextbooks committee
- ePortfolios committee
Teaching Support

The Instructional Designers and Developers at ET@MO continued to provide support for Mizzou faculty teaching online and in the classroom.

Designers and developers provide a wide range of support, including course design, web development, media production, graphic design, quality course reviews, and program redesign. They also consult with faculty on a variety of topics such as course learning objectives, instructional alignment, student engagement, course accessibility and usability, assessment, syllabus construction, and creating or redesigning content.

In providing these services to faculty, designers and developers consulted with 336 different faculty members regarding an online or traditional F2F class being taught here at Mizzou. This resulted in a 174 unique courses being worked on by Instructional Designers and/or Developers.

ET@MO staff planned and ran the 6th annual Celebration of Teaching event here at Mizzou, which saw 460 registrations this year by faculty, staff, and students. ET@MO offered six campus-wide Teaching and Technology (TnT) seminars, as well as over 66 smaller departmental or faculty presentations over topics related to instructional technology, and a weeklong Teahnology workshop.

This past fiscal year has also seen the development of a brand new Online Teaching Foundations program that will launch in Fall 2015. This program is designed for Mizzou instructors that are interested in enhancing their online teaching skills.

In addition, ET@MO continues to offer the Course Redesign initiative to faculty, which provides an additional funding opportunity to support redesigning courses into a hybrid or fully online semester based course. The primary focus of the Course Redesign funds is to support substantive—preferably transformative—enhancements in the pedagogy or technology of

<table>
<thead>
<tr>
<th>Funded Course Redesign Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINPLN 1183: Financial Survival (Ryan Law)</td>
</tr>
<tr>
<td>BIOENG 3075: Introduction to Materials Engineering (Heather Hunt)</td>
</tr>
<tr>
<td>BIOENG 2080: Intro to Programming for Engineers (Gang Yao)</td>
</tr>
<tr>
<td>ENGR 1000: Introduction to Engineering (Noah Manring)</td>
</tr>
</tbody>
</table>

*It is estimated that these courses will impact over 1300 students over the next fiscal year.*
individual courses, and the funds can be used for faculty release time and/or summer salary.

**eMentors**

The eMentors program recognizes instructors recognized for their experience in teaching with technology. These individuals are provided a yearly stipend to work with ET@MO to help facilitate good teaching with technology among their faculty colleagues through presentations, mentoring, and assisting with course reviews. The FY2015 cohort group included:

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eric Aldrich</td>
<td>Atmospheric Science</td>
</tr>
<tr>
<td>Tony Barbis</td>
<td>Learning, Teaching &amp; Curric.</td>
</tr>
<tr>
<td>Elizabeth Behm-Morawitz</td>
<td>Communication</td>
</tr>
<tr>
<td>Tony Castro</td>
<td>Learning, Teaching, &amp; Curric.</td>
</tr>
<tr>
<td>C.B. Chastain</td>
<td>Veterinary Medicine &amp; Surgery</td>
</tr>
<tr>
<td>Teri Christiansen</td>
<td>Mathematics</td>
</tr>
<tr>
<td>Dorina Kosztin</td>
<td>Physics</td>
</tr>
<tr>
<td>Kerri McBee-Black</td>
<td>Textile &amp; Apparel Mgmt.</td>
</tr>
<tr>
<td>Gina Oliver</td>
<td>Nursing</td>
</tr>
<tr>
<td>Jacquelyn Sandone</td>
<td>Romance Languages</td>
</tr>
<tr>
<td>Bethany Stone</td>
<td>Biological Sciences</td>
</tr>
</tbody>
</table>

**Faculty & Staff Recognition**

**EXCELLENCE IN TEACHING WITH TECHNOLOGY AWARD**

The Excellence in Teaching with Technology Awards recognize excellence in the efforts of faculty, staff, teaching assistants and graduate instructors involved in using educational technologies to meaningfully improve teaching and learning at Mizzou.

**Graduate Teaching:** **Marilyn James-Kracke**  
Dept. of Medical Pharmacology & Physiology  
Course(s) Highlighted:  
*MPP 4204/7424: Medical Pharmacology*

**Undergraduate Teaching:** **Sarah Bush**  
Division of Biological Sciences  
Course(s) Highlighted:  
*BIO 1010: General Principles & Concepts of Biology*

**GI/TA:** **Jessica Klockow**, Department of Chemistry

**Staff Support:** **Sarah Smith-Frigerio**, School of Journalism
2015 Ernest L. Boyer International Award for Excellence in Teaching, Learning, and Technology

“The Boyer award honors the world’s most highly creative men and women who have contributed significantly to teaching, learning, and technology in higher education. An international panel of distinguished faculty reviews all nominations for the award and selects the winner, who is honored at the International Conference on College Teaching and Learning with a trophy and a $5,000 cash award.” – http://teachlearn.org

2015 Award Winner
Sarah Bush, Division of Biological Sciences

For the second year in a row, and for the fourth time in the past 5 years, a Mizzou faculty member has won the Ernest L. Boyer award for Excellence in Teaching, Learning, & Technology. Sarah Bush joins past winners Newton D’souza (2014), Bethany Stone (2012), and Elizabeth Baker (2011).

2014 Association for Distance Education & Independent Learning (ADEIL) Helen Williams Award

“The Helen Williams Award honors the most outstanding college level credit course that opened during the previous year. The award recognizes the accomplishment of the instructor, author, primary editor and/or course developer who worked together to create an exemplary course.” -- http://www.adeil.org

Course: Psychology 3830: Health Psychology
Instructor: Nikole Cronk, Family & Community Medicine
Designer: Carmen Beck, ET@MO
Developer: Sandy Hockenbury, ET@MO

Technology Support

In FY2015, the learning technologies team (LTT) at ET@MO responded to over 6,200 support requests concerning educational technologies from MU faculty, staff, and students. The learning technologies team began official support of the Starfish Retention Solutions software, branded MU Connect, in late FY2015. The team added one FTE that partners with staff from Student Success Initiatives and Student Information Systems to continue to expand this service and support student engagement. Over the past year,
ET@MO also added support for TurnItIn, a third-party originality checker and speed grader application for use in Blackboard and/or Canvas.

This additional technology adds to our current campus-supported learning technology stack that includes the following:
- Learning Management System (Blackboard)
- Electronic Portfolios (Sakai)
- Student Response Systems (i>Clicker, i>Clicker GO, Top Hat)
- Student Retention Solutions (Starfish Connect* and Early Alert)
- Synchronous Collaboration (Bb Collaborate)
- Lecture Capture and Video Dissemination (Tegrity)
- Media transcoding and distribution (Kaltura)
- Originality Checker (Bb SafeAssign, TurnItIn*)
- Student Feedback Systems (MoCAT)
- Media blogging (VoiceThread*)
- Publisher Tools from Pearson, McGraw-Hill, and Cengage

* New for 2015

In addition to phone and email support, members of the LTT and META teams provided over 120 one-on-one consultations with faculty surrounding our supported technologies, as well as group training sessions for departments and classes. Members of the LTT also provided consulting expertise on the new UM system course sharing initiative. All teams at ET@MO produce written and video documentation on the use of various technologies to be published on the etopics.missouri.edu website.

Our student META team continues to provide educational technology support for faculty members through phone, email, and in-office support. Additionally, every Thursday from 1-3 the META team assists in staffing the ET@MO open lab hours for faculty.

**Scholarly Work**

The professional staff at ET@MO continued to contribute to the national discourse on teaching with technology by publishing in academic journals and presenting at national and regional conferences focused on learning and technology issues.


Reid, D. & Friel, C. (2014). Hello, Is Anyone There? The Importance of Instructor Presence in Online Courses. Online Learning Consortium Annual Conference on Online Learning, Orlando, FL.


In addition, some professionals at ET@MO also volunteered their expertise and scholarship within the teaching and learning domain to serve as reviewers for the following national and international journals and conferences:

- British Journal of Educational Technology
- Education for Information: Innovative Pedagogies Special Edition
- iConference
- Educause Annual Conference
Teaching and Technology Trends at Mizzou

MEDIA TECHNOLOGIES INCLUDING LIVE CLASSROOMS (COLLABORATE) & LECTURE CAPTURE (TEGRITY) CONTINUE TO SEE INCREASED ADOPTION WITHIN ONLINE COURSES AT MIZZOU

Over the past five years, we have seen massive adoptions of multimedia and live classroom technologies in our fully online, hybrid and on-campus classrooms.

Tegrity, our campus supported lecture capture solution, has grown from approximately 300 course sites in 2010, to now over 1000 course sites over the last fiscal year.

Blackboard Collaborate, our campus live classroom solution, has also seen rapid adoption since 2010. Last fiscal year saw a significant spike in use with a 31% increase in the number of Collaborate classrooms created. (It should be noted in these figures that a single “course site” can have multiple Collaborate classrooms created within.)

Blackboard has also announced a new version of Collaborate which utilizes the new HTML5 standard as a replacement for Java, which may help ease some of the present issues faculty and students have had utilizing Collaborate in their classes.
ePortfolio Enrollments on the Decline

Student enrollments on the campus supported ePortfolio platform (Sakai) saw a 30% drop in 2015. Part of this drop might be explained by the fact our ePortfolio solution is six years old, and no longer contains the “shine” many faculty and students are expecting from modern technology platforms. An extensive ePortfolio software review is planned after the decision has been made on campus as to the direction taken for our campus Learning Management System.

Mobile Use Continues to Rise

With Blackboard Mobile Learn now free for Mizzou students, we have seen a huge increase in use of the mobile application. Last year we had 24,830 unique faculty and students using the mobile application with Blackboard, and we’ve also seen continued growth and use of the application since August 2014. There are noticeable spikes in usage in December and May, most likely caused by students using the mobile application to check their grades.

![Max Daily Bb Mobile Learn Logins](chart)

We anticipate that the use of mobile devices and learning technology applications will continue to rise over the next few years as students and faculty increasingly grow accustomed to the ease of use, portability and instant access to their learning materials.
Goals for ET@MO in 2015-2016

The past twelve months have seen ET@MO accomplish many of the goals we set at the beginning of last fiscal year. We have completed Online Teaching Foundations, and are set to offer the first course to faculty this fall. We have also adopted TurnItIn to provide an alternate originality checking system to faculty and students, as well as an easy-to-use and powerful mobile grading application. We also continued to leverage various LMS analytic tools to provide information for troubleshooting and strategic planning.

The goals for this year include:

• Reach a clear resolution with our LMS question.
  o If the decision is ultimately made to move to a new LMS, we will work to make this potentially difficult transition as easy and seamless as possible for our faculty and students. This will include significant planning for support, hiring additional student help, and communicating and marketing the change effectively.
  
  o If the decision is made to stay with Blackboard, we will work to transition the courses, faculty and students from the Canvas pilot back to Blackboard, and to move our Blackboard instance to managed hosting or the cloud in order to insure stability.
  
  o Regardless of the decision, we will further explore ePortfolio and content management options with the chosen LMS setup and make a recommendation regarding those.

• Continue to market and expand our many faculty professional development opportunities, which include our newest offerings, such as;
  o Online Teaching Foundations
  o Series on Undergraduate Teaching
  o Conversation Catalyst

• Develop an online “Teaching with Technology Showcase” where good teaching practices and innovative uses of technology can be highlighted.

• Continue to market and expand our services that promote excellence in course design and development, including our new or enhanced offerings;
  o Quality Course Reviews
  o Instructional Media Studio
  o Course Redesign
• Undergo an external program review in order to insure our services and programs are meeting the needs of MU faculty and students.

• Examine our departmental data sources and determine best fit for each type in order to support overall strategic decision making.

• Continue our work over the next year in helping faculty members “teach well with technology” by supporting innovation in teaching and learning, providing excellent design and technology assistance and furthering strategic conversations around excellence in teaching wherever possible.