

Educational Technologies at Missouri (ET@MO)

<http://etatmo.missouri.edu>

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Director

ET@MO advances the meaningful use of educational technologies in teaching and learning at Mizzou through various programs, consultations and activities.

ET@MO staff:

- 1) Engage in relevant academic technology strategic conversations, decisions, and initiatives
- 2) Facilitate the use of existing resources and infrastructure for quality, consistency, and efficiency
- 3) Research, design, and implement relevant new educational technologies across the University

This academic year, which consists of the summer 2010 through spring 2011 semesters, we have supported more than 245,515 student enrollments in approximately 5,127 on-campus and distance courses taught by over 3400 faculty members. While this does not represent a significant increase over last year, we view it as an indicator that we are nearing the top of the innovation curve for learning management system use, and continue to investigate new methods of further facilitating learning with technology.

The staff members at ET@MO were also able to assist with communication and coordination of educational technology topics on multiple strategic levels, such as the Commission on Student Success, the Mizzou e-learning task force, Missouri Course Redesign Initiative, the Equella implementation, UM online portal project, the creation and administration of the academic technology liaisons (ATL's), Mizzou Advantages, Teaching with Technology and Professor of the Year awards as well as the Technology Evaluation subcommittee. As Mizzou moves further into the realm of e-learning, the staff members will continue to facilitate and assist in these conversations. We also planned and/or contributed to programs such as Teachnology, the Celebration of Teaching and Learning Excellence, and New Faculty Orientation.

ET@MO Services - At a Glance		
	2010 (% of total)	2011 (% of total)
Online Learning Systems		
<i>Total MU Courses supported on Blackboard</i>	5,002 (67% of all courses)	5,127 (77% of all courses)
<i>Unique Student ID's</i>	29,415 (92% of students)	29,433 (91% of students)
<i>Student Enrollments (student enrollment in each of their course sites)</i>	233,560	245,515
<i>Students using Blackboard Mobile Learn</i>	n/a	7,421
Fully Online Course Support (Mizzou Online)		
<i>Number of fully online courses supported</i>	457	472
<i>Full Development online course equivalent</i>	148	204
<i>Course Reviews using Quality Matters</i>	n/a	13
Andragogy/Technology Consultations		

<i>One-on-one faculty consultations (technology, andragogy, or both)</i>	635	454
<i>Faculty conferences hosted</i>		
<i>Teachnology attendees</i>	133	204
<i>Celebration of Teaching attendees</i>	212	300
<i>Innovator publications</i>	2	2
Assessment Tools		
<i>Mid-semester course surveys -- MOCAT</i>	520	525
<i>End of the Semester surveys – MyCourse</i>	1,152	1,277
<i>Student response system (“clickers”)</i>		
<i>Courses using</i>	76	81
<i>Enrollments</i>	14,332	15,289
<i>Sakai</i>		
<i>Courses using</i>	58	54
<i>e-Portfolio student sites</i>	1,738	1,858
Other Educational Technologies		
<i>Tegrity</i>		
<i>Courses</i>	284	380
<i>Active Students</i>	8,310	16,287
<i>Hours viewed</i>	87,285	152,584
<i>Wimba</i>		
<i>Virtual Classrooms (may be more than one per Blackboard course site)</i>	61	692
<i>Active Students</i>	950	1,332
<i>Hours of Collaboration</i>	6,001	12,061

Program Highlights

ET@MO is a vital part of teaching and learning at the University of Missouri, both on campus and at a distance. Ensuring that the use of educational technology is used to advance student learning requires that faculty have access to professionals with both instructional design and educational technology expertise. This year, we've added a new instructional designer position to support faculty members, the faculty e-mentors, as well as eight full time and six graduate assistant academic technology liaison (ATL) positions. The new instructional designer allows us to form an instructional design team of two designers and a developer to support faculty across campus. The e-mentors are faculty members who are recognized for their excellence in teaching with technology. These individuals work with ET@MO to advise and assist faculty new to eLearning, and serve for a term of two years. The ATL's are a combination of educational technology support and instructional design people who are located in the academic units that they serve, but coordinate and collaborate with each other. Having the ATL program in place has already increased the number and quality of hybrid and online courses being created for next year.

The Missouri Course Redesign Initiative is a partnership between the Governor's office, the Missouri Department of Higher Education and all of Missouri's four year universities. This is a significant statewide effort to enhance teaching and learning across higher education in Missouri and we are

excited to have the opportunity to participate. This project focuses on redesigning large enrollment, multi-section undergraduate courses. The following are the Mizzou courses being redesigned for the 2011-2012 academic year. All of the Missouri Course Redesign Initiative courses came from units with ATL's.

- Statistics 1100, Larry Ries (This course is also an NCAT redesign project)
- Human Development and Family Studies 2400, Cynthia Reeser
- Math 1300, Jason Aubrey
- Biology 1010, Sarah Bush
- Journalism 2150, Lynda Kraxberger and Steve Rice
- Nursing 2000, Gina Oliver

While ET@MO provides technology and andragogy support for all instructors at Mizzou, additional in depth instructional design and programmatic support are provided for courses taught fully online through Mizzou Online. Online course development is a more in-depth process that includes curriculum planning, comprehensive individual design assistance, project management and higher levels of support for faculty teaching at a distance, including Quality Matters course reviews, content creation assistance and multimedia support.

ET@MO staff members also continued to support various educational technologies such as the student response system ("clickers"), lecture capture and videocasting via Tegrity, wikis and blogs, as well as the audio and video conferencing software Wimba Live Classroom. During several weeks in 2010 and 2011, Mizzou was the leader in the nation in number of Tegrity views by students.

ET@MO's META (Mizzou Educational Technology Assistance) Team serves the educational technology support needs of faculty while providing students with valuable educational experiences alongside some of MU's most innovative faculty members. This year, the members of the META Team provided 147 individual faculty consultations and were involved in several major projects including the creation of web-based tools and interactive multimedia modules. They were also able to help administer a campus wide teaching with technology survey and conduct academic research with Tegrity. In addition, they staff the ET@MO open lab hours for faculty every Thursday from 1-3.

ET@MO staff members were able to provide several opportunities for faculty members to assess their teaching. The MoCAT (Missouri Cares about Teaching) course evaluation system was used to administer 520 mid-semester surveys in order to provide formative feedback while the faculty member still had time to make changes. At the end of the semester, MyCourse was used to administer end of the semester final evaluations for over 1200 courses. As online final course evaluations are integrated more closely with university processes, and more courses are taught fully or partially online, we look for this number to increase.

Future Trends

The 2011 Educause Learning Initiative Horizon Report (<http://www.educause.edu/Resources/2011HorizonReport/223122>) suggests that over the next few years, there will be a number of interesting technologies used for teaching and learning at the higher education level. These include the following;

Time to adoption: One Year or Less

- Electronic Books
- Mobiles

Time to adoption: Two to Three Years

- Augmented Reality
- Game-based Learning

Time to adoption: Four to Five Years

- Gesture-based Computing
- Learning Analytics

We have already been working with several e-textbook publishers to clear their products through our FERPA regulations, coordinate with the bookstore where possible, as well as pass the Division of IT security requirements. In addition, we've been exploring mobile uses, both from the perspective of new applications available for teaching and learning, adding information into the university's application – GoMizzou, and using the Blackboard mobile application. We plan on forming an informal team that includes ET@MO staff and ATL's to further examine "what's new in educational technology", such as augmented reality or game based learning. We will be implementing a form of learning analytics in the near future to support student persistence in accordance with the commission on student success recommendations.

Words from Faculty Members and Colleagues

The most effective way to describe the impact of what ET@MO does is through story – stories from the people we have worked with. Here are a few excerpts from faculty members and colleagues who have worked with ET@MO staff members in 2011;

Thank you, thank you Guy! I truly didn't expect anyone to respond to my question on a holiday weekend, but hopefully I'd be first in line Tuesday morning - I figured since it was happening to the entire column, it was something that I didn't set up right - but couldn't figure it out.... Thanks again!!!
--Candy Lindsey

I just wanted to thank you for your helpful organization of the break-out presentations at the Celebration of Teaching. You worked in advance, provided helpful reminders, and generally made sure this herd of faculty knew exactly what they were supposed to do and where they were supposed to be without restricting creative juices. Of course, everyone at ET@MO did a fantastic job to make the conference a success! It's like you have done this once or twice... I don't know how you all manage to juggle so many balls so well!
--Bethany Stone

I just wanted to take a moment as I dive into the final week of class to let you know how great Guy Wilson has been to work with regarding using the CPS system in my intro to comm studies course this Spring. The technology and our students' abilities to responsibly use it have been quite questionable, but Guy has never lost his cool, and has responded helpfully to each request for assistance. And what's more, his response has been incredibly prompt. I suppose it's sad that prompt, helpful, and happily offered assistance stands out... but it really does. What particularly impresses me stems from how I can only imagine that all of us faculty and students probably only call Guy when we are upset about some problem that we can't resolve ourselves. And yet, he responds with kindness, patience, and concern. Without him, I might have had a breakdown over this technology and would likely have been hesitant to try it or newer versions of it in the future. But if he's still around the next time I rotate into this class, I will have confidence that whatever happens, I'll have

help to make it work. He has improved my experience, and I just wanted to pass along my great appreciation for his work and role in my teaching successes.

-- Rebecca Meisenbach

Kudos to ALL of you! I only made in on Tuesday [of Teachnology], but got a lot of value and thoughts from every session I attended! You all are fantastic! Thanks a lot,

-- Evan Prost

I just wanted to say that I recently attended a course taught by Charles Rigdon and just wanted to let you know he was very informative and helpful and I look forward to working with him and your organization in the future to help me get some of my blackboard courses into the Wimba arena. Now just have to find the time to do that. But just wanted to say thanks none the less.

--Jack Crawford

THANK GOD FOR YOU, FAYDRE! Marla has answered this question before for me – I knew it was something tricky, but not difficult, but with all my clicking and clacking to try to figure it out, I just couldn't get it done. THANK YOU!

--Dana Fritz