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Innovation in Pedagogy and Technology Symposium

University of Nebraska May 8, 2018

Select Conference Proceedings



Innovation in Pedagogy and Technology Symposium

University of Nebraska May 8, 2018

Selected Conference Proceedings

Presented by University of Nebraska Online and University of Nebraska Information Technology Services

Zea Books Lincoln, Nebraska 2018







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Symposium website:

https://symposium.nebraska.edu/agenda

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Innovation in Technology and Pedagogy Symposium

University of Nebraska Information Technology Services (NU ITS) and University of Nebraska Online (NU Online) present an education and technology symposium each spring. The Innovation in Pedagogy and Technology Symposium provides University of Nebraska (NU) faculty and staff the opportunity to learn from nationally recognized experts, share their experiences and learn from the initiatives of colleagues from across the system. This event is offered free to NU administrators, faculty and staff free of charge.

Tuesday, May 8, 2018
The Cornhusker Marriott, Lincoln, NE

The Importance of the Event:

Technology has forever changed the landscape of higher education and continues to do so—often at a rapid pace. At the University of Nebraska, we strive to embrace technology to enhance both teaching and learning, to provide key support systems and meet institutional goals.

The Innovation in Pedagogy and Technology Symposium is designed for any NU administrator, faculty or staff member who is involved in the use of technology in education at all levels. Past events have drawn over 500 NU faculty, staff and IT professionals from across the four campuses for a day of discovery and networking.

The 2018 event was held in downtown Lincoln. The schedule included:

- Presentations by University of Nebraska faculty, staff and administrators
- Concurrent sessions focused on pedagogy/instructional design, support and administrative strategies and emerging technologies
- Panel discussions
- Roundtable discussions and networking time
- Sponsor exhibits
- Continental breakfast and lunch

Proposal Submissions:

Play an active part in this premier event, by sharing your best projects and initiatives that support your discipline, department, college or university mission.

Presentation proposals are accepted for the following tracks through January:

Leadership and Strategy in Online Learning

Vision and effective management plays a key role in the development and growth of online education. Creating a culture of collaboration and ingenuity while maintaining structured growth of a program can at times be challenging. The Leadership and Strategy in Online Education Track will allow the opportunity for administrators, managers and others vested in the success of online education to share ideas and identify new avenues of collaboration which will drive the future growth of online education at the University of Nebraska.

Pedagogy/Instructional Design

Well-designed and executed course pages, rubrics, lessons and assignments are vital to the success of online courses. Online courses rely on the expertise and collaboration of faculty and instructional designers. These efforts produce learning environments where students can thrive. The Pedagogy/Instructional Design Track allows the opportunity for individuals to share best-practices, identify ways to collaborate across departments and campuses and discuss the opportunities and challenges in creating the next generation of online learning environments at the University of Nebraska.

Emerging Technology

Technology is an active partner in teaching and learning. New technologies facilitate new methods and streamline processes. Applying IT to instruction can help address long-standing issues, create greater engagement and produces a level playing field for all students. Share your experience, case studies and technical demos through the Emerging Technology track.

Submit proposals here: https://symposium.nebraska.edu/proposals

Keynote Presentation

Attendees are able to learn from nationally recognized speakers in the field of online learning in higher education.

The highlighted keynote speaker, Barbara Oakley, Ph.D., from Oakland University, drew on her background in the military and engineering to speak on learning from a psychological and biological viewpoint. Oakley provided learning techniques to help memory recall and practical solutions to beat procrastination. In addition, Oakley hosted two breakout sessions on encouraging women working in the STEM fields.

Keynote Presentation

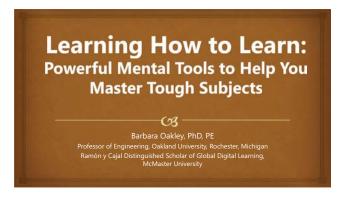
Learning How to Learn: Powerful Mental Tools to Help You Master Tough Subjects

Barbara Oakley, Ph.D.

Oakland University

Barbara Oakley didn't begin learning remedial high school algebra until age 26. Now she's a professor of engineering, a New York Times best-selling author, and instructor of the world's largest massive open online course, with nearly two million registered students. How did this happen? She learned how to learn, and she now teaches others these practical insights. In this fun-filled keynote, you'll hear true stories of remarkable transformation and discover intriguing insights from science about how you can change and grow, no matter your age or stage of life.

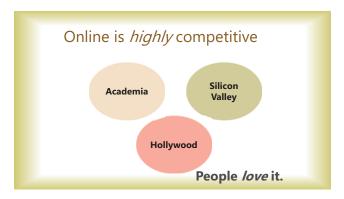
Using metaphor and analogy, which primes neural circuits for difficult topics, Oakley explains how to learn effectively, drawing on her extensive experience as both an engineering professor and a linguist, as well as from key research insights from cognitive psychology and neuroscience. Learn about which techniques help and those that do not, how to use the brain's different learning modes to their best effect, and about methods like recall, "chunking" and the Pomodoro technique's approach to beating procrastination. You'll walk away with practical learning tools based on solid research—and you'll have fun along the way!



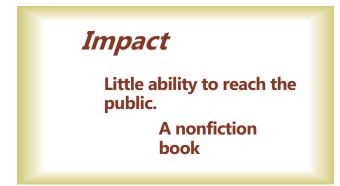


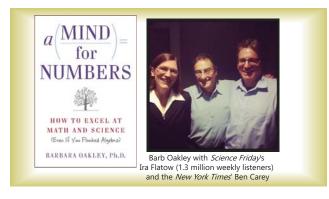










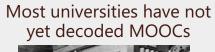






MOOCs & Online

- Reach"Legs"
- Your own educational television show
- Endless reruns
- Only investment—startup time















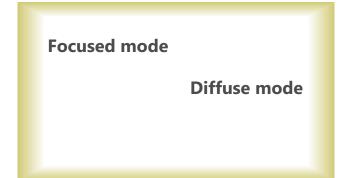
How did you do it?



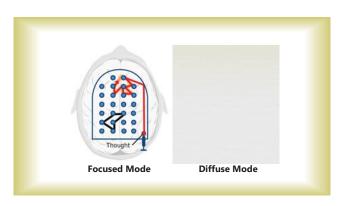
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z*	$x^x(1 + \ln x)$	7	er	$e^{-\frac{1}{4}x^2(1-2\ln x)}$	$(x+1)^{s+1}-x^s$	7	$\frac{(x+1)^{s+1}}{x^s}$	K(x)
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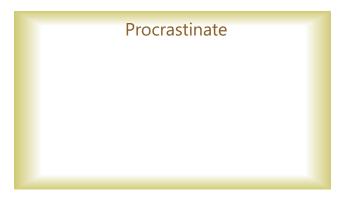


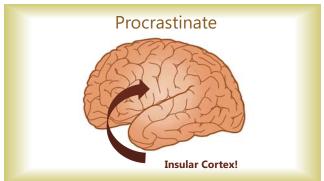






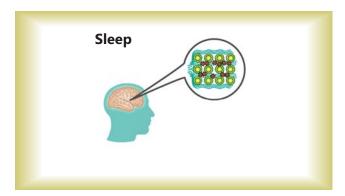


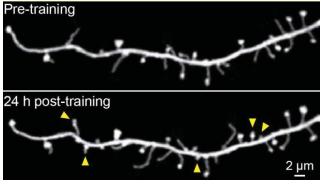




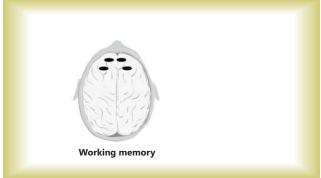


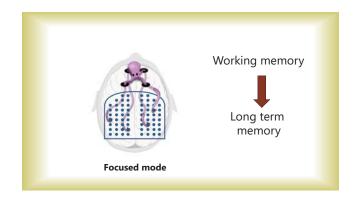


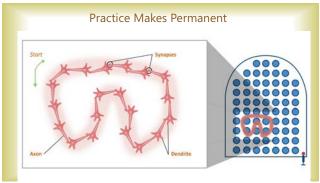


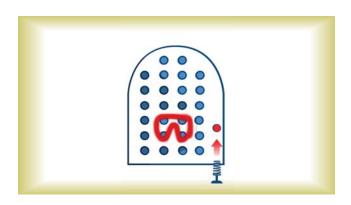


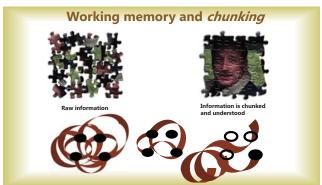




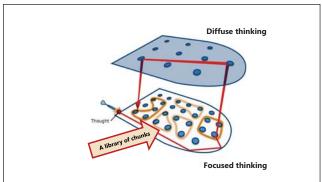


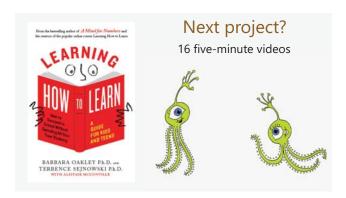


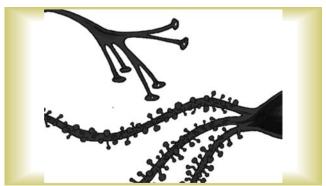


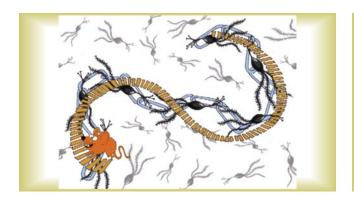












The down side

The fan letters

We are at the ground floor of a learning revolution!

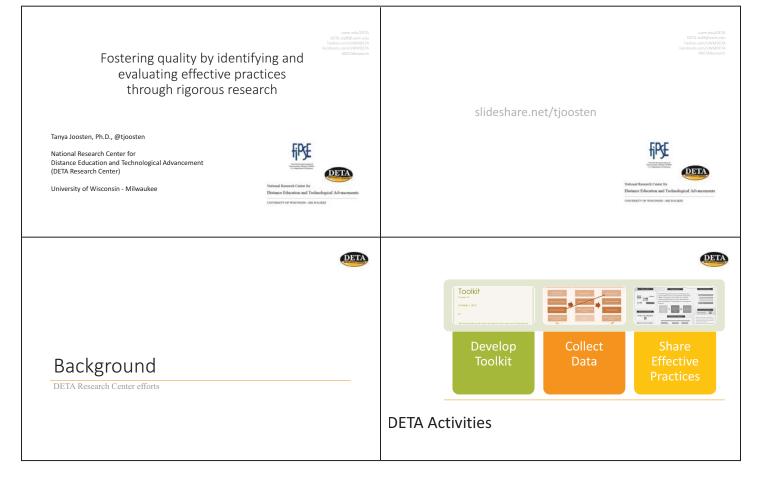
What are you waiting for?

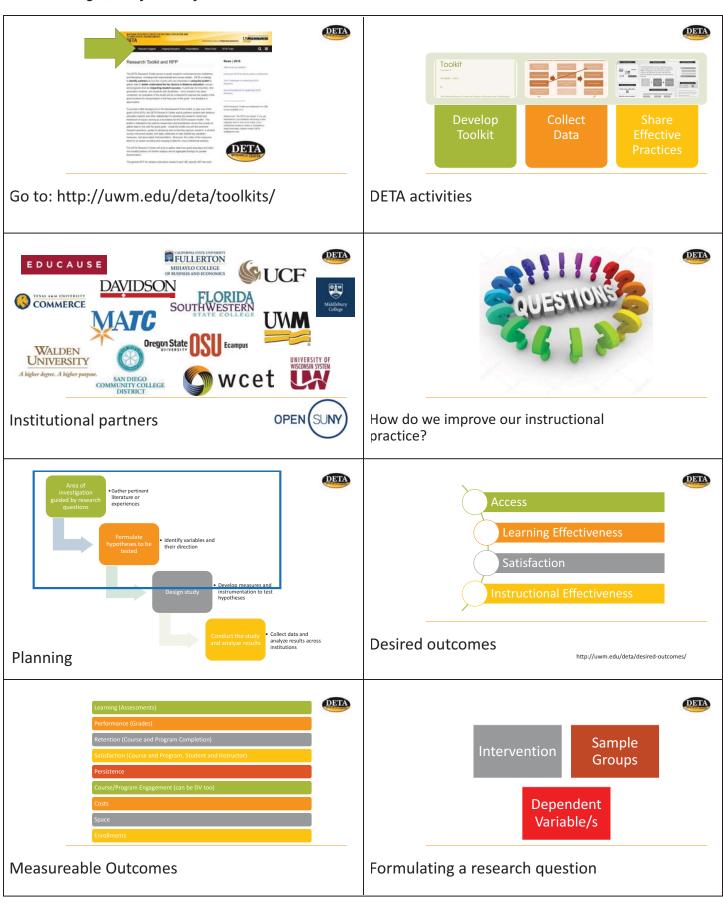
Fostering Quality by Identifying & Evaluating Effective Practices through Rigorous Research

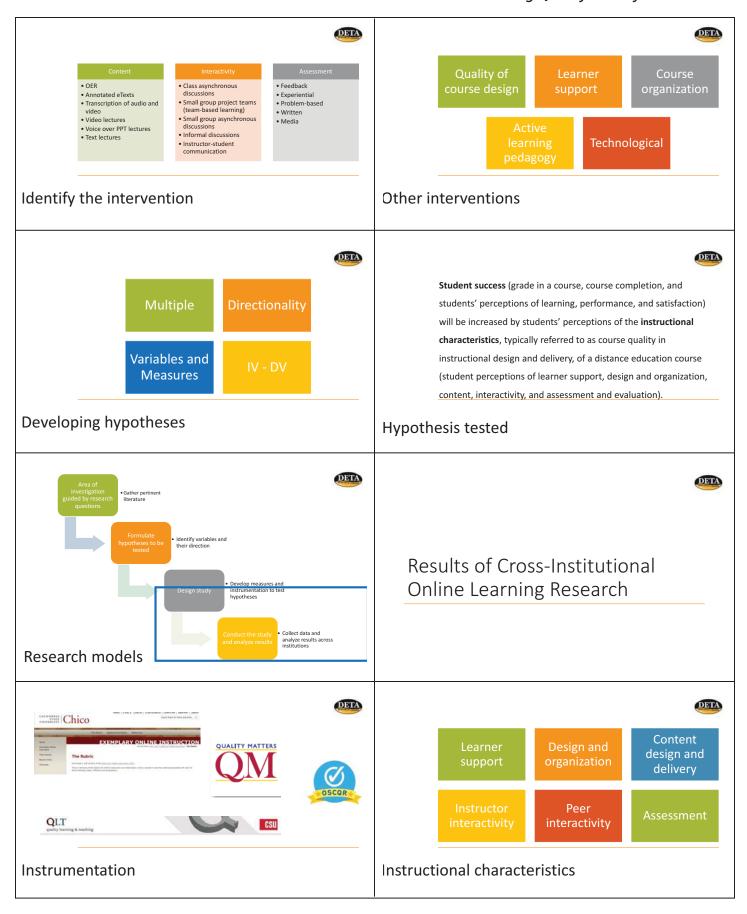
Tanya Joosten

University of Wisconsin-Milwaukee

In redesigning digital education courses, special attention is paid to sound instructional approaches and ensuring practices foster success for all students. In this session attendees will learn how to better provide support to faculty and staff in informing their instructional practices based on previous research and conducting rigorous research on their new innovations.











Synchronous Online & In Person Classrooms: Challenges & Rewards Five Years Into Practice

Elsbeth Magilton

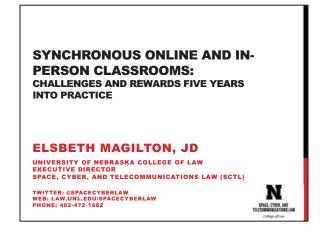
University of Nebraska-Lincoln

Nebraska Law's online Space, Cyber, and Telecommunications Law program is a part-time online option for industry professionals. The online LL.M. (a post-law degree masters level program) was created in 2012 to address the growing demand for the program by experienced practitioners who want to obtain an LL.M. degree while maintaining their existing work - however our online LL.M. demands students to "attend" classes synchronously with students who attend on-campus. Initially the program utilized Adobe Connect for our virtual classrooms, but we have since moved to a mixture of Zoom and other VoIP services in conjunction with classroom management tools. Student feedback tells us that our live, real-time, interaction has been key in the success of our program but it certainly has presented many hurdles and logistical challenges.

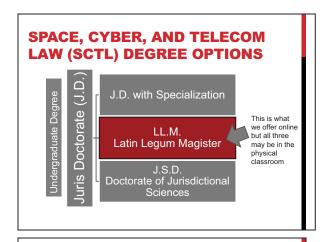
This presentation will discuss why we believe this "in-person facetime" in online instruction is valuable, the challenges of maintaining an in-person classroom and a virtual classroom at the same time, what platforms have been successful and why, and a frank conversation of the challenges we are still addressing.

Importance:

- (1) An understanding the uses and limitations of several high-profile virtual classroom options.
- (2) The benefits and the draw-backs to managing online students and on-campus at the same time in class.
- (3) Why we believe this "in-person facetime" in online instruction is valuable.
- (4) Solutions we've learned via trial and error in teaching, testing, and providing student services to remote students at the post-doctoral level.







WHAT DO WE MEAN BY SYNCHRONOUS?



What I assume their bosses think is happening

NEEDS DRIVEN DECISIONS

- · Cost / University Relationships
- Visual Communication
- · Audio Communication / VolP
- Chat Functions
- · Privacy vs. Ease of Access
- Recording Capabilities
- · Content Management/Sharing
 - Blackboard
 - Canvas
 - TWEN

HOW WE DID IT Adobe Connect (2012-2017) - Hard to integrate many types of media - Consistent frustration with video and power points - Default settings requiring repeat daily changes - Audio struggles - Overwhelming options

DETAILS OF ONLINE LLM OPTION

- Only open to SCTL LLMs
 - · Post-doc/post-law degree students
 - · All required SCTL courses and most electives
- · Admit approx. 2-4 online students per year
 - No more than 3 in any give class (prefer 1 or 2)
- On campus students may request recordings but may not attend online
 - Protect online environment and minimize tech complications
 - · Different tuition rates (flat rate vs. hourly)
 - Different course planning and timeline (full vs. part time)
 - Different attendance requirement (100% vs. 75%)
- · On campus and conference requirements
 - 3 credit hours must be completed on campus
 - Student fees cover DC Conference travel one time



WHY WE DO IT THE WAY WE DO

Real Talk: Our faculty was skeptical of online teaching and this option made it easier to push through our curriculum committee.

But it's not entirely that crass.

We also believe strongly in the method of legal education. The idea is that students teach themselves and come prepared to class to discuss a large quantity of information – including subjecting themselves to the Socratic method.

SPACE, CYBER, AND ECOMMUNICATIONS I

HOW WE DID IT

Adobe Connect (2012-2017)



- Individual classroom URLs (ditched this 4 semesters in)
- · Students and faculty had their own accounts
- Accounts "placed" in classrooms

HOW WE DO IT

Zoom (2016-current)

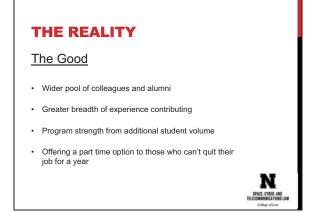
- Each faculty member has their own personal Zoom Room that never changes. They use it for each and every class.
- Students may sign in as a guest every time (entering their name each time) or create a free account to sign in to.
- Files never need to uploaded to share Zoom is, at its essence a screen sharing platform
- Allows for multiple option panes, but no formal, full screen interface beyond full screen video or screen share options









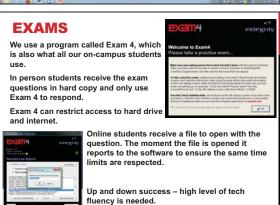


THE REALITY

The Bad

- Faculty has to split their attention while teaching
- Different attendance policies causes discord
- Distance makes group study challenging
- Disconnected from the institution and the program (easy to slip through the cracks)







THE REALITY

The Ugly

- Tech is tech sometimes it fails and stalls class and disrupts teaching and valuable conversation
- · Distraction can lead to resentment
- Audio is biggest challenge
- Can't 100% control what tech is being used on the other side

MY RESPONSE AS EXEC DIRECTOR

I'm a lawyer. Lawyer's research problems and solve them by evaluating evidence that makes certain solutions more advantageous or persuasive than others.

Some of my favorite instructional design materials:

Scott, P.A. (1994). A comparative study of students' learning experiences in intensive and semesterlength courses and of the attributes of high-quality intensive and semester course learning experiences. Paper presented at the meeting of the North American Association of Summer Sessions (Portland, OR, November 16, 1993).

Scott, P. A. (2003). Attributes of High-Quality Intensive Courses. New Directions for Adult and Continuing Education, 2003(97), 29-38. Wiley Periodicals, Inc.

Laves, Elizabeth (2018). The Impact of Teaching Presence in Intensive Online Courses on Perceived Learning and Sense of Community: A Mixed Methods Study, 28-35

BACK TO BASICS

What we want (for all students, everywhere):

- · greater continuity of learning
- · greater concentration/focus on learning
- · longer class sessions
- · mental investment and commitment
- preventing performance affected by fewer concurrent classes, short duration, retention and understanding, absences, procrastination
- · decrease in (or no) superfluous material
- · classroom community and professional bonding
- student-teacher relationship formation/professional bond
- · classroom atmosphere, clarity of instructor expectations

These goals are achieved through certain relationships...

SPACE, CYBER, AND TELECOMMUNICATIONS LAI

RELATIONSHIPS

- Student to Teacher (meh.)
 - · Split classroom attention
 - Technical barriers
 - · Pre/Post class relationship building
- · Student to Student (OK.)
 - Chat box use and email tends to create a bond between online students particular. On rare occasion good relationships form between on-campus and online students
- Student to Content (good!)
 - Students receive content the same way students in the classroom do

STUDENT TO STUDENT SOLUTIONS

Building Community and Connections

- · Required online to on-campus project collaboration
- Social events and community building during residential visits and conferences
- · Student "meet-up" study "rooms"
- · 2018 Thesis-Palooza

STUDENT TO PROFESSOR SOLUTIONS

- More robust, back of room, technology and screens
- More dedicated, on-hand, IT staff
- · Support for setting up each class, every session
- Stream line access of information and communications
 - Rather then in-person they connect via email, the online classroom, and the CMS. Can this be simplified to model relationships more similar to on-campus students?
- Teaching "live" to the groups separately:
 - Focus solely on online students and building their community.
 - Teach a separate section to on-campus students
 - Solves some problems, but also removes some benefits

BARRIERS

It becomes a number game: justifying separate sections requires a big influx in student enrollment. To reach that number I have to max out slots in our current courses – worsen student experience in the meantime/growth period.

Additionally budget + internal politics

- · IT Support
- Hardware
- · Recruitment Costs

MOVING FORWARD

Where do I go from here?

- Maximize current capabilities: Work-a-rounds to backroom monitors and other tech challenges
- Visit my online students, be even more mindful of their time in Nebraska, increase opportunities for in-person bonding
- Increase online interactions (thesis, research, presentations)
- · Have on campus students sign into Zoom during class

THANK YOU

We Nudge and You Can Too: Improving Outcomes with an Emailed Nudge

Ben Smith

University of Nebraska at Omaha

Near the end of the semester, students who've placed little importance in your course will wonder: "what's my grade?" This realization often happens so late that no amount of effort will result in an acceptable grade.

What if students cared as much about their grade at the beginning of the semester as they do at the end? This is the idea behind 'Grade Nudge.' 'Grade Nudge' is a free application written by the presenter that sends the following message to each student over e-mail:

"Hi [Name], As of now, you have a(n) [Grade] in the class. This assignment is worth [Points] points. If you get more than [X] on this assignment, your class grade will increase to a(n) [Higher Grade]. If you get less than [Y] on this assignment, your grade will drop at least one grade. Not doing the assignment will result in a(n) [Lower Grade]." where each of the above variables are filled in for the individual student.

As shown in (Smith et al., 2018), this message resulted in a four percentage-point increase in homework scores. Further, this activity requires no class time and can be sent out by the instructor in less than three minutes.

References:

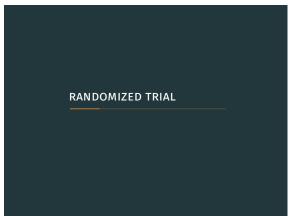
Smith, Ben O., et al. "Improved grade outcomes with an e-mailed "grade nudge"." *The Journal of Economic Education* 49.1 (2018): 1-7.

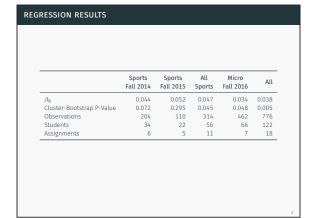
Importance:

- Participants will be shown evidence of Grade Nudge's effectiveness
- 2. Participants will be shown step-by-step instructions to implement the Grade Nudge in their classes
- Participants will be provided the resources to address edge cases such as very large classes and when assignments replace existing grades

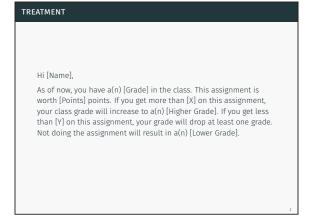
IMPROVED GRADE OUTCOMES WITH AN E-MAILED 'GRADE NUDGE.' Ben Smith Dustin White Patricia Kuzyk James Tierney Presentation at Innovation in Pedagogy and Technology Symposium University of Nebraska at Omaha Washington State University The Pennsylvania State University Published: The Journal of Economic Education https://doi.org/10.1080/00220485.2017.1397570

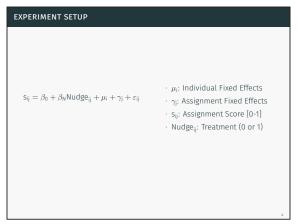


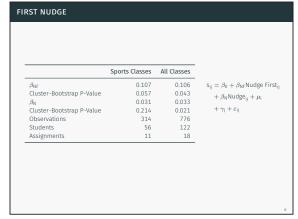


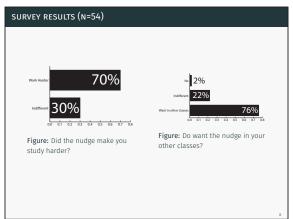




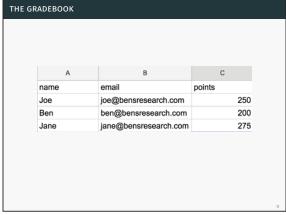




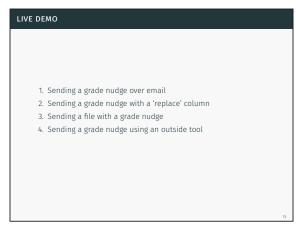


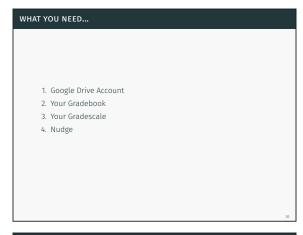


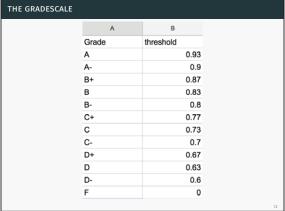




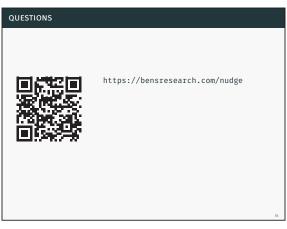












It Takes a System to Build an Affordable Content Program

Brad Severa,^{1,2} Jane Petersen,^{1,3} Kimberly Carlson,³ Betty Jacques,³ Brian Moore,² Andrew Cano,² and Michael Jolley²

1 University of Nebraska Information Technology Services2 University of Nebraska–Lincoln3 University of Nebraska at Kearney

Since 2006, the price of textbooks has dramatically exploded, with the cost of a college text book increasing more than four times the rate of inflation. This cross-campus panel includes Faculty, an Instructional Designer, Librarian and ITS Staff discussing how to build an affordable textbook program. The UNK members will share learning outcomes from the Kelly Grant project including; using OER materials in courses, converting to digital textbooks, lessons learned and helpful hints for success. The UNL members will introduce the Digital Materials Initiative opportunities at the Lincoln campus. A UNL faculty member will discuss his years of experience in creating and using an iBook in his course, and how it has evolved over the years in his department.

This is an open panel conversation for the audience to ask questions about OER and for faculty to share their experience with teaching and using OER materials in their course. It takes many people from different specialties, working across campuses to create real impact for students. This large panel represents just a portion of the many people needed to implement all the tools and methods required to create positive change for the University of Nebraska system.

Importance:

- 1. Open Educational Resources (OERs)
- 2. Affordability
- 3. Resources for Faculty
- 4. Improving Learning Outcomes



Jane Petersen UNK

ITS Director, Academic Technology and Client Services

Kimberly Carson UNK

Ph.D. Professor & Assistant Chair Biology Department

Brian Moore UNL

Ph.D. Music Education & Music Technology



University of Nebraska

red2go: Developing and Deploying Digital College Curriculum



Andrew Cano UNL

Virtual Learning Librarian

Subject Specialist Librarians at UNL:

https://libraries.unl.edu/subject-specialties

Subject Librarians at UNO:

https://www.unomaha.edu/criss-library/research-and-instruction/subject-librarians.php

Liaison Librarians at UNMC:

https://www.unmc.edu/library/contact/liaisons/index.htm

Librarians by Subject at UNK:

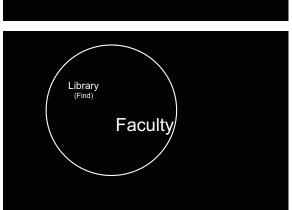
http://guides.library.unk.edu/librariansbysubject

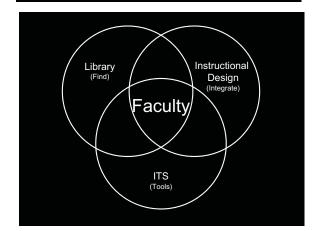
Michael R Jolley UNL

Instructional Design Technology Specialist

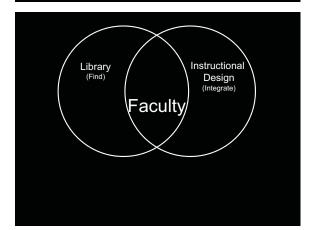
teaching.unl.edu







Faculty



It Takes People

Unit Kelly Grant
Jane Petersen
Betty Jacques
Kimberly A Carlson

UNL Kelly Grant
Innovative
Instructional Design
Marie Barber
Bev Russell
Sushma Jolly
Michael Jolley
Stefanie J. Zahourek
Guieswende
Rouamba

Libraries
Andrew J. Cano
Catherine Fraser
Riehle
Charlene MaxeyHarris
Information
Technology Services

UNL Kelly Grant nnovative nstructional Design

UNK Kelly Grant Innovative Instructional Design Marie Barber Bev Russell

UNK Kelly Grant UNL Kelly Grant

UNL Faculty Cohort David Mabie UNL Kelly Grant structional Design STAR Initiative Guest Speakers

UNL Kelly Grant Innovative Instructional Design Marie Barber UNK Kelly Grant Innovative
Instructional Design
Marie Barber
Bev Russell
Sushma Jolly
Michael Jolley
Stefanie J. Zahourek
Guieswande

UNK Kelly Grant Jane Petersen UNL Kelly Grant Innovative
Instructional Design
Marie Barber
Bev Russell
Sushma Jolly
Michael Jolley
Stefanie J. Zahourek
Guisewende

Looking Ahead

Karen Gardner-Athey OLIS Professional Development Training Coordinator

Discover IncludED

Successful
Teaching
Affordable
Resources

Supporting Strategies and Tools

Order Books by Deadline

Supporting Strategies and Tools

- Order Books by Deadline
- Follett Tools
 - Discover & IncludED

Supporting Strategies and Tools

- · Order Books by Deadline
- Follett Tools
 - Discover & IncludED
- Unizin Tools
 - Engage & Pressbooks

Questions

Five Generations: Preparing Multiple Generations of Learners for a Multi-Generational Workforce

Olimpia Leite-Trambly, Sharon Obasi, Toni Hill

University of Nebraska at Kearney

For the first time ever, we have five generations working simultaneously in the workforce. This diversity provides unique opportunities and challenges for employers and managers. Oftentimes before this diverse workforce enters employment, universities and colleges were charged with preparing and educating them. Unlike online teaching, traditional teaching with reading assignments and paper-pencil tests may lend itself better to educating a generationally diverse student group. Online teaching multiple generations is more challenging especially when attempting to encompass several generations of diverse learners. Instructors must consider and include both the digital native and the digital novice or digital immigrant when designing instructional and assessment material. Instructors may have a student with a dozen or more devices and another student with only one "dumb" phone. Additionally, instructors need to consider issues of accessibility and equity in designing instructional and assessment materials across multiple generations. Current research on the characteristics of the five generations of employees includes an examination of education values, communication style, and motivation across the generations. This presentation will demonstrate how instructors can use the intergenerational workforce research to effectively design an intergenerational-inclusive online course.

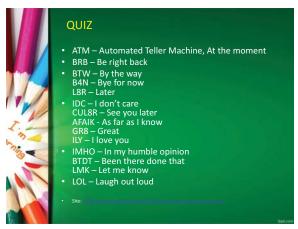




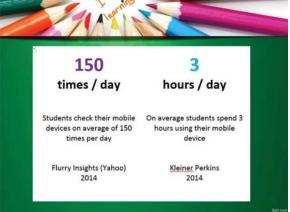








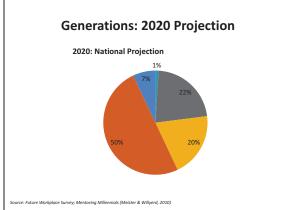








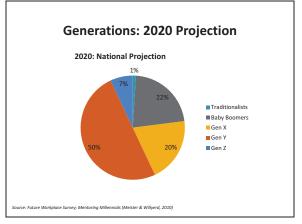


























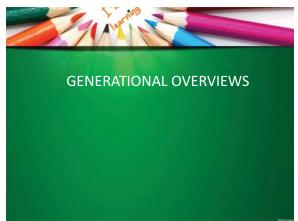


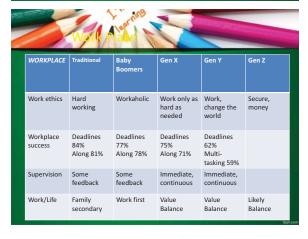




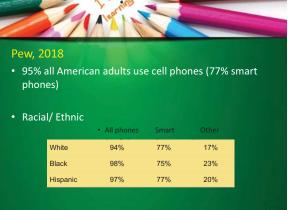




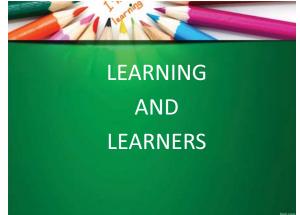
















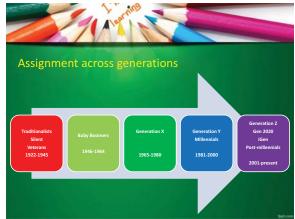




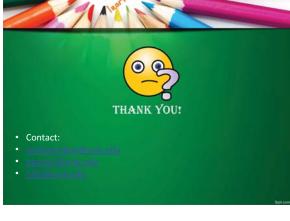




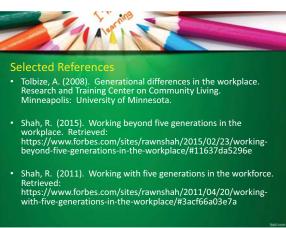












Schedule NU! Schedule SC!

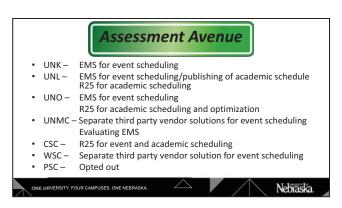
Cheri Polenske,¹ Jean Padrnos,¹ and Corrie Svehla^{1,2}

1 University of Nebraska Information Technology Services2 University of Nebraska–Lincoln

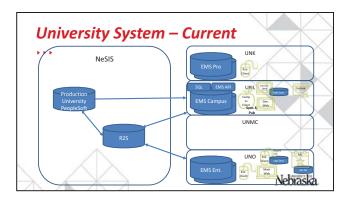
One of the goals of OneIT is to maximize the purchasing power by consolidating contracts and utilizing common systems. UNK, UNL and UNO utilized a product called EMS for event scheduling. CSC, UNL and UNO used R25/S25 for academic scheduling. The University was able to license the EMS scheduling solution for all of the Universities and State Colleges for both academic scheduling/optimization and event scheduling in one contract. The implementation of the shared EMS system is underway and will go-live mid to late 2018.

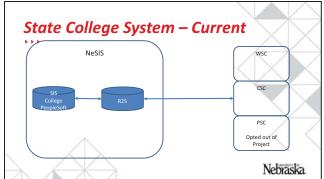


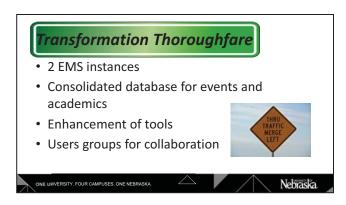


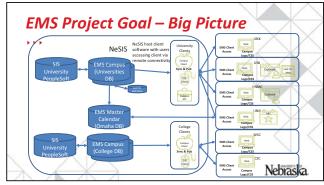


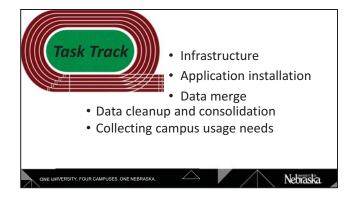




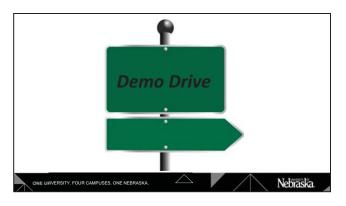












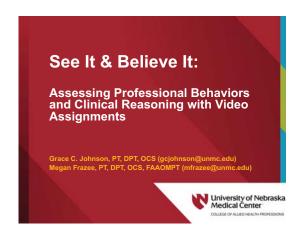


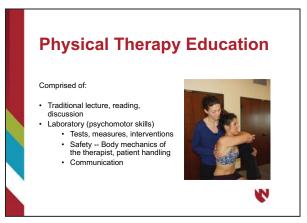
See It & Believe It (Assessing Professional Behaviors & Clinical Reasoning with Video Assignments)

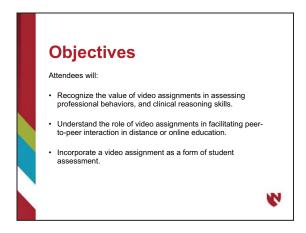
Grace Johnson and Megan Frazee

University of Nebraska Medical Center

Professional behaviors and clinical reasoning skills are developed through repetition, modeling and multiple exposures. We developed video assignments in physical therapy education that allow students to integrate didactic knowledge into clinical cases. These assignments require students to demonstrate appropriate professional behaviors, psychomotor skills and clinical reasoning required for physical therapy patient management. For all video assignments, students are required to upload their videos into Canvas, view the work of their peers and provide constructive feedback. These video assignments allow faculty to assess professional behaviors and clinical reasoning of students and facilitate student interaction between sites.









Evaluating Professional Behaviors



Lab Practical Exams

- 1st year students demonstrate tests, measures, or interventions on a standardized patient
 - Faculty evaluate their performance
 - Psychomotor skills
 - Patient safety

 - Communication introduce self, shake hands with patient, instructions in layperson terminology



First-year PT Students Building foundational knowledge Building foundational skills Communication With strangers – "patients" Hearing your voice! Taking charge of the patient encounter

Discussion Board Assignment → Video Project

Example: Tests & Measures Video Case #2

A 27-year-old patient with a 3-week history of right side neck pain and headaches is seen in physical therapy. He plays guitar and sings in a country western band and has increased pain during this activity. He demonstrates the following findings with sitting posture:

- Forward head
- Forward, elevated, and internally rotated shoulder posture, R > L
- Abducted and elevated scapulae, R > L
- Other exam findings include decreased L lateral flexion range of motion of cervical spine and tenderness to palpation of the suboccipital

Select a strength or muscle length test that should be included in this exam and complete the video assignment as instructed.



Basic Requirements

- Students work in groups of 3-4
 Therapist, Patient, & videographer
- . Each student selects a unique test or measure for the case

- Submit a single continuous video
 No self-recordings
 2.5 minutes max video duration
- Provide feedback to 2 peers and post high quality constructive comments
- · Video Example





Grading Rubric

Heavily based on communication, verbal and nonverbal

- Explains purpose of the test
- Provides demonstration
 Uses lay terminology only
 Summarizes test results with patient
- Provides closure to the session
- No distracting habits (e.g. gum chewing, hair in face, odd facial expressions)
- Dressed professionally
 Good posture and positive body
 language



Assessing student development here and there



UNMC PT Program has a class comprised of

- 50 students in Omaha
- 16 students in Kearney

Most core faculty are here in Omaha with 3 faculty

With video projects, faculty can see how students in the distant site are developing in regards to

- · clinical decision making
- professional behavior



Second-year PT Students

Video Assignment

- More challenging
- Patient case
- Provide patient education on exercise dosing

Communication & Professional Behaviors Still important



Oral Case Presentations



- Students are preparing for their first full-time clinical rotation
- "In this scenario, you are a student who is performing the evaluation without your Clinical Instructor (CI) in the room. You have just stepped out of the room to summarize the case for your CI before proceeding with the exam and
- They are given the history and examination findings, and copies of the patient intake forms (6-8 pages of information)
- Goal is to pick out the key pieces of information that need to be shared with the CI to paint a clear picture of the patient
- Propose plan for treatment or need for referral if necessary
- <2 minutes total

Objectives for Oral Case Presentation Assignments:

After completing this assignment, students will be able to:

- Distinguish which elements of a case are the most critical to the diagnosis, prognosis, and plan of care.
- Summarize the key elements of a case in a clear and concise manner.
- Clearly communicate their findings to a clinical instructor, using the SBAR format.
- · Provide high quality, constructive feedback to a peer.

Situation

Background

Assessment

Recommendation



Situation

- What is going on and why health care professionals are needed
- · Should be brief
- "Rachel is a 17-year-old female presenting with a chief complaint of left ankle pain following an inversion ankle sprain two days ago"



Background

- Identifies and provides the diagnosis (or reason for seeking treatment), their medical status, and history
- · Key info from the examination
- Do they belong in PT or need referral to another practitioner?
 - Screen for red/yellow flags



Assessment

- State what they believe the problem is based on examination findings
- Any impertinent information is avoided unless asked for



Recommendations

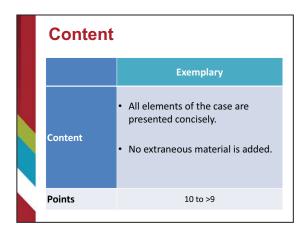
- Precise and descriptive explanation on exactly what the patient needs
 - · Referral?
 - · Plan for today's treatment



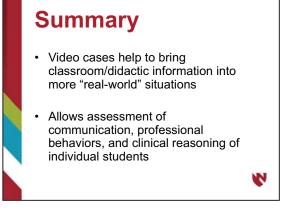
Rubric						
Performance Elements	Exemplary	Accomplished	Developing	Needs Improvement /Failing	Score	
Communication	Professional appearance. Presents persuasive and explanatory information in a logical sequence with clear and precise language. Utilizes notes as needed for key findings but maintains adequate eye contact and presents information in a conversational tone, without reading directly from a script.	Professional appearance. Presents information with a few ums, ahs, and pauses. Presents information in a logical sequence.	Professional appearance. Presents information with lots of ums, ahs, and pauses. Presents in an illogical order or lacks transition phrases.	Unprofessional appearance. Poor expressive language. Clearly reading from script.		
Points	10 to >9	9 to >8	8 to >7	57	/10	
Content	All elements of the case are presented concisely. No extraneous material is added.	All elements of the case are presented but with some extraneous material added.	All elements of the case are presented but with significant extraneous material added. Key content not selected.	Key elements of presentation are missing.		
Points	10 to >9	9 to >8	8 to >7	≤7	/10	
Response to colleague	Contributions are made in a timely manner and provide high quality feedback with critical substance. Specific actionable feedback is present. This should include at least 1 specific area for improvement (there is always room for improvement).	Generally contributed in a timely way, and displayed a moderate level of feedback. Specific actionable feedback is minimal (e.g. feedback is very general)	Student's contributions/feedback is superficial. No evidence of thoughtful evaluation. No specific feedback, (e.g. a version of "great job!" is not constructive or actionable feedback)	Participation is past the deadline or inadequate/inappr opriate		
Point Deduction	-0	-1	-2	-4	Minus	
Comments:					Total:/ 20	

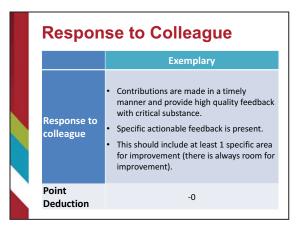
Communication

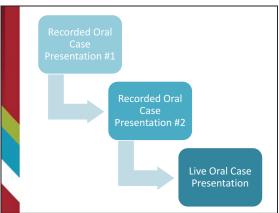
	Exemplary		
Communication	 Professional appearance. Presents persuasive and explanatory information in a logical sequence with clear and precise language. Utilizes notes as needed for key findings but maintains adequate eye contact and presents information in a conversational tone, without reading directly from a script. 		
Points	10 to >9		













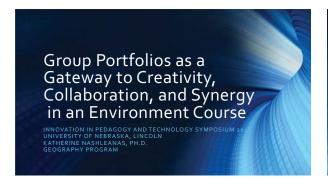


Group Portfolios as a Gateway to Creativity, Collaboration & Synergy in an Environment Course

Katherine Nashleanas

University of Nebraska-Lincoln

Recent studies have suggested the world students are facing today is moving so fast that the professions and skills they are training for now might be obsolete by the time they graduate. As a result, students in the 21st century need to think more flexibly, innovatively and creatively as well as practice in collaboration, negotiation and teamwork. With an entry-level class of 49 students in a hybrid course, groups were assigned with a semester portfolio project on the general topic of sustainability. Individual groups of students collaborated around their own sustainability message with each group member creating a portion of the portfolio using a medium of their choice. As students engaged collaboratively and creatively, they also became more powerfully and emotionally engaged in the course and topic than previous traditional research papers and posters routinely provided.









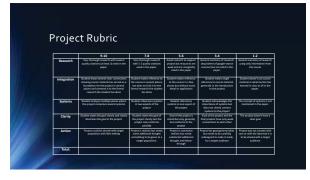




























Student Comments I am not a coffee drinker, so naturally, I don't really contribute much to this paper cup epidemic, however, this project did teach me a lot about how small things in the world can really add up and have a huge impact. This entire experience has been eye-opening and reading through my sources and typing the paper has taught me more than I ever thought I would about water bottle companies. The making of the posters was a fun way to visualize my project and make these facts easily accessible to the class.

Student Comments

• I always knew that my culture in the US was wasteful. There are signs everywhere telling people to reuse and recycle. How driving cars is bad for the atmosphere, and especially how the glaciers are melting. I brushed it aside thinking it's another problem politicians like to talk about, like women's rights and foreign policy. It never seemed to me like I could ever do anything to help or stop it, like I was one drop in a flood of people. This project taught me that there are a number of things that I can do to help our environment a great amount. I learned that the Earth is a big and complicated system, how harmful plastic and Styrofoam is, and that we are the god species. All of which have changed how I do things day to day.

Student Comments

Although it many not seem like a big impact on people, sometimes it is better to leave the thought of it in their minds, that way they can take the initiative, even if it just means throwing an empty plastic bottle into the recycling bin instead of throwing it away into the trash can. The web page was created in order to make this happen. Consciousness. Awareness. The realization that waste and recycling are not just words, they are actually actions that are bring taken, decisions to be made about where the waste goes in order to help conserve the environment. One action can lead to a dreadful outcome, whether it is a direct or indirect consequence. By helping others realize how much material is being thrown out instead of being recycled when they could be, this project can make a change....

Student Comments

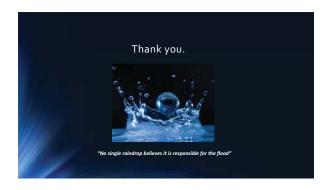
The creativity portion of this project taught me that sometimes things may be frustrating or confusing without set guidelines but working together and utilizing your individual strengths and ideas can create a creative project. I also learned that it might take a few failed attempts and dead-end ideas before a possibly functional creation emerges, and that is okay. Creativity can be inspired by many things: other group members, a lecture, or as for me, a random piece of research that I stumbled upon without meaning to. Creativity can produce great ideas by thinking outside of the box and getting inspiration from outside sources.

Student Comments

- Hearned a lot about waste management through my research, the film we watched in class, the lifestyle challenge, and all our other classroom lessons. The research and film opened my eyes as to how much I've been contributing to these staggering statistics when it comes to the average waste production and how we still have more work to do when it comes to recycling and composting. Improving these aspects, as well as continuing to implement the lifestyle challenges will help me to reduce my waste production and conserve some energy. It will also hopefully encourage me and others to strive to further reduce our environmental impact after seeing how easy some of these relatively large changes can seem.
- Throughout this project, I was able to learn what I could do as an individual to play a role.

Concluding Thoughts

- ✓ Meeting my goal
- ✓ Incorporating 21st Century skills:
 - ✓ Flexible and systemic thinking
- √ Negotiation and collaboration skills
- ✓ Management and group skills
 ✓ Comparing research paper with group portfolios
- ✓ Future directions



Learning to Learn Online: Helping Online Students Navigate Online Learning

Suzanne Withem

University of Nebraska at Omaha

Students spend the first 13 years of their schooling learning how to be good students in the physical classroom, but receive little to no direct instruction in how to be successful online students. By developing a "Learning to Learn Online" module for students new to online learning at UNO, the Office of Digital Learning is helping prepare students to be successful online learners and freeing up faculty to focus on course content rather than instruction in the use of digital tools or study skills. This session will introduce strategies for developing and implementing similar online student-readiness programs to prepare students for success in online courses. The "Learning to Learn Online" resource developed at UNO will serve as a model for illustrating these strategies. Extensive collaboration and consultation with online students and instructors, shows that the 90% of students at UNO who take at least one online class during their course of study need support in order to be prepared for online classes. This session invites faculty to take advantage of the currently available resources and encourages digital learning administrators, advisors, and student support service providers to develop their own school-specific resources.

Beyond Closed Captioning: The Other ADA Accessibility Requirements

Analisa McMillan and Peggy Moore

University of Nebraska Medical Center

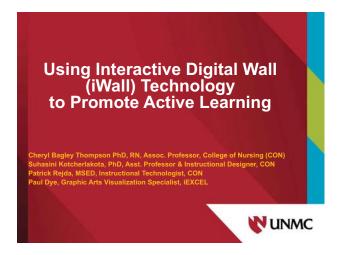
Did you know that there is more to making online courses ADA accessible than just closed captioning videos? Join us as we uncover the ADA accessibility requirements in the Section 508 refresh. In this session, we will discuss how to design online course space, materials and documents to meet compliance standards. Learn the whys and hows to formatting PDFs, PPTs, Canvas content pages, Word documents and multimedia to meet standards as well as considerations for colorblindness.

Using Interactive Digital Wall (iWall) Technology to Promote Active Learning

Cheryl Thompson, Suhasini Kotcherlakota, Patrick Rejda, and Paul Dye

University of Nebraska Medical Center

UNMC's iWall technology bridges College of Nursing campuses across the state. The multi-taction iWall consists of from 9-12 high resolution video panels. These panels provide interactive monitor space on which to project class content and simultaneously allow instructor and student interaction with content. The iWalls across the state are connected, allowing interactions between students in different locations. Students at home or sites without iWall are able to view and participate in class activities via webinar technology. This presentation will discuss the use of iWall within the UNMC iEXCEL Visualization Hub to teach information mapping. Time will be allotted for questions and to discuss attendee proposals for use of such technology.



Presentation Outline

- Introduction to iWall Technology
- Using the iWall to Teach Information Mapping
- · Instructor Assistance Needed
- · Instructional Design Principles
- · Questions and Audience Discussion



Paul Dye

- IEXCEL
- · Graphic Arts Visualization Specialist

Introduction to the iWall



- · Interactive, touch based video wall
- Software
- · Features



Introduction to the iWall



- · Interactive, touch based video wall
- Software
- Features



How Do I Get Started Using the iWall? Key contacts — iWall Managers Omaha Scheduling: Shaunna Briles | shaunna.briles@unmc.edu General questions: Paul Dye | paul.dye@unmc.edu Scottsbluff Jerry Schledewitz | jschledewitz@unmc.edu Kearney Alex Schultz | alex.schultz@unmc.edu

Cheryl Thompson

- · College of Nursing
- · Nurse Informaticist

Using the iWall to Teach Information Mapping

- · Health informatics course
- Why used iWall
- · Information mapping
- How iWall used
- · What worked well
- · What did not work so well



Introduction to Health Informatics

- Masters' of Science in Nursing
- Nurse Leader/Executive Advanced Development
- Distance
- · Omaha, Lincoln, Kearney, 3 at home





Cybersecurity Threats & Challenges

J. R. Noble

1 University of Nebraska Information Technology Services2 University of Nebraska–Lincoln

Cyberattacks have brought a paradigm shift in how we secure & protect information. Today, NATO ranks attacks from phishing & malware among their greatest concerns. These attacks are attractive to hackers, who find them to be cheap, hard to track, and even harder to attribute. As budgets rise and fall, awareness of cyber threats and challenges has never been more critical. Theft of intellectual property, loss of research, and attacks on the reputation of the University are among the challenges managed by our team. Join the UNL Information Security team for a talk about today's cyber threats and how they are impacting the University.

Digital Badges: A Focus on Skill Acquisition

Benjamin Malczyk

University of Nebraska at Kearney

Social work faculty designed two social work courses to incorporate badging exercise. The course requiredstudents to complete badges in areas such as self-care, utilization of APA citations, uploading videos into Canvas, and other skills necessary for students to succeed. Rather than have class discussion or lecture on this content, students completed a series of exercises outlined in the badge requirements to receive credit in the course.

Students who completed the requirements of a badge actually had to demonstrate the desired skill. As students practiced and demonstrated this skill, they left the course not just knowing about a specific content area such as self-care, but with an ability to actually practice self-care. Additionally, the social work department has considered utilizing badges to ensure student capacity around skills that are not specifically covered in any single course.

Digital Badges: A Focus on Skill Acquisition

Ben Malczyk, MSW, PhD

University of Nebraska Kearney

- Badges provide students with opportunities to learn, practice and ultimately be assessed on demonstration of a skill. Social work faculty designed two social work courses to incorporate badging exercise. The courses required students to complete badges in areas such as self-care, utilization of APA citations, uploading videos into Canvas and other skills necessary for students to succeed. As students practiced and demonstrated this skill, they left the course not just knowing about a specific content area such as self-care, but with an ability to actually practice self-care. Additionally, the social work department has considered utilizing badges to ensure student capacity around skills that are not specifically covered in any single course.
- Choose this presentation because:
- You are interested in developing badges to enhance your course.
- You wish to learn how badges can shift the focus from content to skills.
- You are interested in the benefits of badges to assist students in acquiring necessary skills in a given discipline and document actual mastery of a given skill.

Questions · What is digital badging? · Why should I use badges? · What does badging actually look like? Sorry....no badge will be awarded just for attending

What is digital badging?

• "Digital badges are an assessment and credentialing mechanism that is housed and managed online. Badges are designed to make visible and validate learning in both formal and informal settings, and hold the potential to help transform where and how learning is valued. "

MacArthur Foundation

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MacArthur Foundation



What is digital badging?

- Potential
 - Micro-credentials- atomizing a class
 - Open-credentials
 - Skills qualifications
 - Gamification

Why should I use badges?

 "Badges can help speed the shift from credentials that simply measure seat time, to ones that more accurately measure competency. We must accelerate that transition. And, badges can help account for formal and informal learning in a variety of settings."





 Secretary Arne Duncan (Italics added)

Why should I use badges?

- "Evidence based stuff"
- Removing assumptions of quality









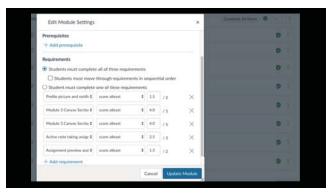
Why should I use badges?

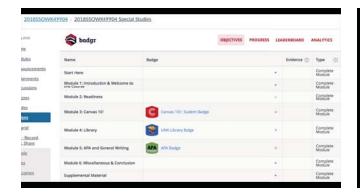
• Interdisciplinary and soft-skill areas















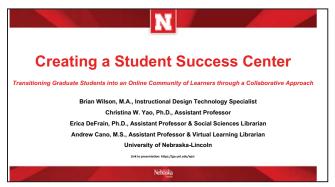


Creating a Student Success Center: Transitioning Graduate Students to an Online Community

Brian Wilson, Christina Yao, Erica DeFrain, and Andrew Cano

University of Nebraska-Lincoln

Community building and socialization are key to success in graduate education, particularly as students are facing two new realities at the start of their academic careers: shifting identity into becoming graduate students and scholars, and developing online learning competency. As a way to address these challenges, the EDAD Student Success Center was created in Fall 2016 to increase interactions with faculty and peers as a way to develop a community of learners. This collaborative project included interest and effort from departmental faculty and staff, colleagues from the UNL Libraries, and current graduate students representing the EDAD Graduate Student Association (GSA). As a result, student users described the benefits of the Student Success Center as critical to their success as graduate students. By reducing feelings of isolation, we were able to provide a comprehensive site that helps students feel membership in a learning community and to have access to tools that assist in fostering their educational success. The EDAD Student Success Center was recognized with the 2017 OLC Effective Practice Award. In addition, the presenters have published findings from this collaboration in the May 22, 2017 edition of the EDUCAUSE Review.





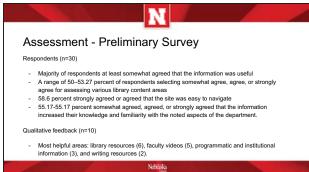


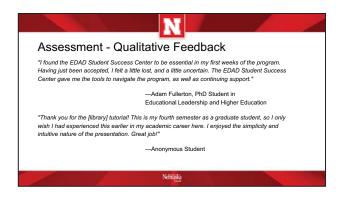
















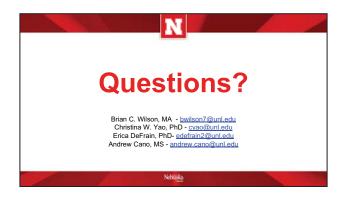












Male Allies:

Supporting an Inclusive Environment in ITS

Heath Tuttle^{1,2} and Wes Juranek¹

1 University of Nebraska Information Technology Services2 University of Nebraska–Lincoln

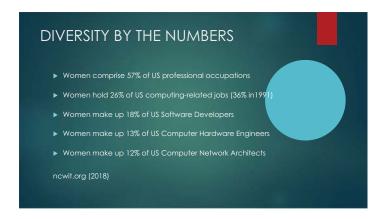
Greater demands and limited resources mean that innovation is essential for Information Technology Systems (ITS) at the University of Nebraska. A key element of a successful and innovative organization is a culture that values and respects diversity. Diverse teams, in turn, lead to improved performance and a more effective organization (Hutchings & De Cieri, 2016).

In this interactive session, presenters will discuss the role male allies have in creating an inclusive culture, discuss every-day actions that everyone can take to improve the work environment, and promote the development of a Male Ally group within ITS and how participants can stay involved.

Importance: Why diversity and inclusivity are important for the success of ITS • Awareness of the types of issues that inhibit diversity and inclusiveness • Actions male allies can take to promote an inclusive working environment • How to stay engaged through a Male Allies group



















Featured Extended Presentation

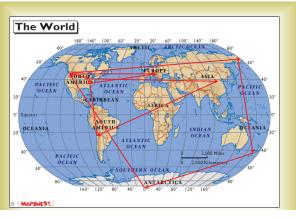
Broaden Your Passion! Encouraging Women in STEM

Barbara Oakley

Oakland University in Rochester, Michigan

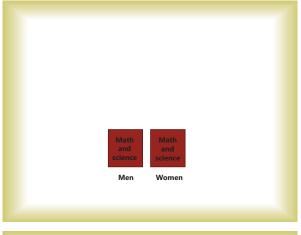
Women and men develop with equal, often outstanding, abilities in math and science. However, one of women's advantages is that they also often have a developmental edge over men when it comes to verbal abilities. The result? When women hear the ubiquitous advice to "follow their passions," they sometimes turn towards their undeniable strengths outside STEM. Some subjects—like STEM—take longer for women and men to master. This talk helps women recognize that it's sometimes important to be patient with passion—don't just follow your passions, broaden them!

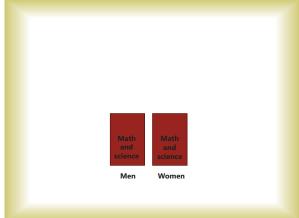


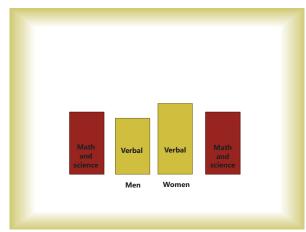


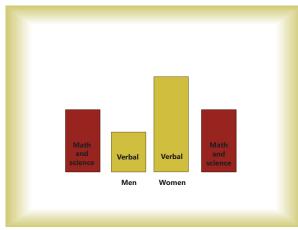


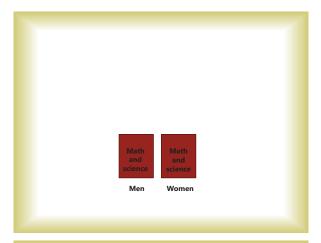


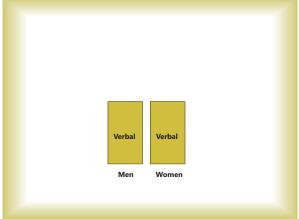


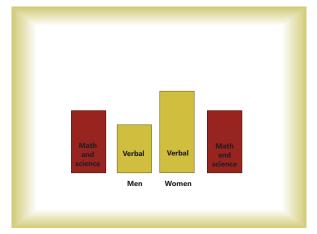
















Don't just follow your passions.
Broaden your passions!

My own observations of differences between genders

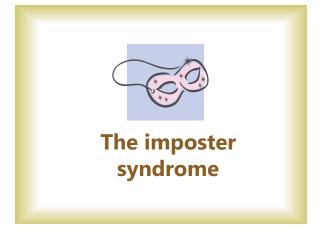
- Men: Cockiness
- Women: Balanced willingness to second guess themselves

Gender differences in my engineering classroom

Career choices:

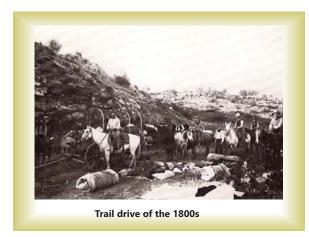
- Be "great" in a degree program that's easy for you
 - with low paying career options
- Be "average" in a degree program that demands more of you
 - with high paying career options





Pair and share

Have you ever experienced the Imposter Syndrome?



The world is changing

- STEM jobs are growing at 1.7 times the rate of non-STEM jobs
- The U.S. is not producing enough candidates to fill those jobs.
- Only 16% of high school seniors are interested in pursuing STEM careers.

All STEM jobs are NOT created equal

- Nutritional Science majors (86.4% female) earn \$35,000 out of college.
- Mining and Mineral Engineering majors (90% male) earn \$75,000 out of college.



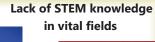
Careers

- 74% of college graduates with STEM degrees are going into non-STEM jobs
 - Healthcare
 - Law
 - Education
 - Social Work
- Graduates are highly sought after and earn higher wages than their non-STEM counterparts
- Just because you may have to study more in STEM doesn't mean your career will be that way.
- "Having a technical degree is the best foundation to give you the most choice in this economy."
 - Anthony P. Carnevale, director of Georgetown's Center on Education and the Workforce.

Amazon's Jeff Bezos



Why is STEM harder? THE WALL STREET JOURNAL = OPINION THOW We Should Be Teaching Math Achieving 'conceptual' understanding doesn't mean true mastery. For that, you need practice. By BARBAR ACAKLY Sur. 12. 2016 & 17 pm. 17 Sur. 12. 2016 & 17 pm. 17 Sur. 12. 1016 & 17 pm. 17 Sur. 12.







Using common sense

- Everybody doesn't need to be an scientist, engineer, or mathematician.
- Everyone should have a basic mathematical competency and rudimentary scientific literacy.

Numerical ability predicts mortgage default Kristopher Gerardi*, Lorenz Goetle**, and Stephan Meler* "hazard, braining for the control of t

The Law of Serendipity Lady Luck favors the one who tries. Passion

See also:

 Stoet, G, and DC Geary. "Sex differences in academic achievement are not related to political, economic, or social equality." *Intelligence* 48 (2015): 137-151

 Be wary of looking to make yourself into a victim—you can scare off the very people you most want to work with.

> Two kinds of "supporters"

Students as Creative Forces to Enhance Curriculum via E-Learning

Betsy Becker, Peggy Moore, and Dele Davies

University of Nebraska Medical Center

Academic institutions are seeking to enhance student centered teaching with active educational encounters, but development can be hampered by limited time and resources. This session focuses on the successful engagement of student-faculty teams to create interactive e-learning modules to enhance our medical school and other health science programs curricula.

UNMC launched the "UNMC Student E-Learning Program" for student and faculty teams to build interactive e-learning modules. We started with a competitive application process, informational meetings, and a comprehensive website with resources to guide development. Then student developers, with their faculty advisors, utilized our E-Learning Studio to access tools and e-learning instructional design consultation over six months. The UNMC E-Learning Scorecard and Development Checklist guided developers in best practices in instructional design and method of education. The completed e-modules were demonstrated at a campus wide E-Learning Showcase and accessed from the online UNMC E-Gallery.

Through this program, 84 students in medical and health professions created 39 e-learning projects. Of these, 57 (67.9%) students responded to our survey about their experience as curriculum developers and we analyzed the results. In this session, learn what student e-learning developers said about their motivations and benefits from participation in this unique program in higher education.

Learning Outcomes: Participants will discuss the how student and faculty teams at UNMC develop interactive e-learning curriculum • Participants will Identify the motivating factors and benefits for students to participate in curriculum development

Key Points: Key elements of the UNMC E-Learning Student Program • Top motivations and benefits of student developers reported in the study • The value of students developing interactive modules.

Rethinking Visual Communication Curriculum: The Success of Emporium Style

Adam Wagler, Katie Krcmarik, and Alan Eno

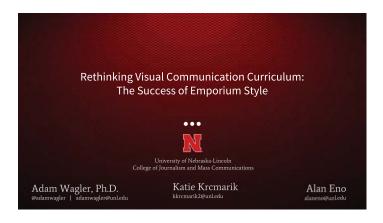
University of Nebraska-Lincoln

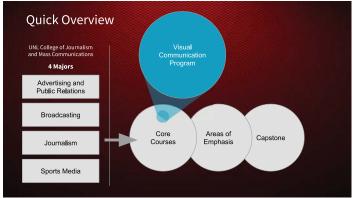
The College of Journalism and Mass Communications faced challenges with budget and faculty resources causing a bottleneck, in the beginning, visual communications courses for the College. In the fall of 2016, a solution was implemented in the form of an emporium style teaching model, where students can seek help on projects and collaborate with peers on projects. The program is the first-of-its-kind giving students experience with the technologies and techniques needed to be powerful and effective storytellers. Students leverage the technology they use in their daily lives to solve real-world problems, with the help of faculty available in a learning resource center. Topic-based workshops and boot camps offer students additional hands-on learning experiences with the software. The program's first students finished in Spring 2017 with positive results to date. Participants will take away ideas, materials, lessons around organizing, teaching, and assessing a course of this nature.

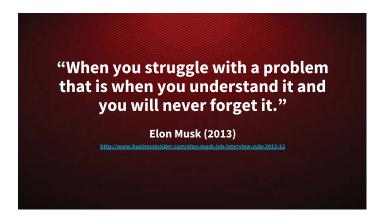
1. Learn the process of implementing an emporium style model for a visual communications program UNL's

College of Journalism and Mass Communications.

- 2. Discuss the planning, scope, process, challenges, and instructional design strategies used to develop the series of visual communications courses.
- 3. Access examples of online modules, learning materials, rubrics, and other documentation used this year.
- 4. View student projects that demonstrate learning from online modules that make up an agile curriculum that stays nimble based on relevant trends in media.
- 5. Overview of assessment plan and results from Fall 2017 and Spring 2018.

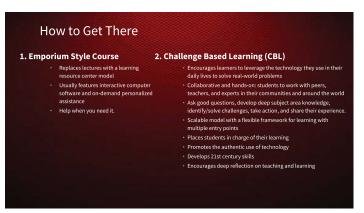










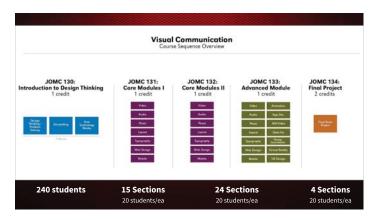




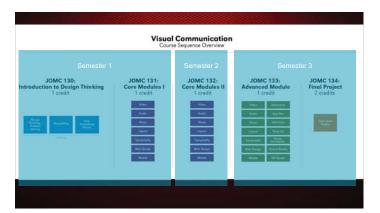


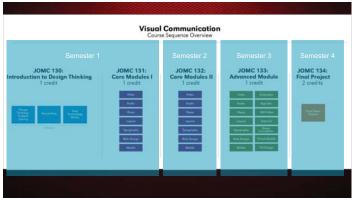












Lessons Learned Year One Students want more structure More deadlines - three instead of one More prescribed path through modules Faculty workload needs reduction Not allow all work to be submitted at end of semester Reduce grading further Management of student progress More equitable amount work between modules

JOMC 131, 132, 133: Levels by Major Core ADPR BRDC JOUR Ш Video Photography Lavout Typography Web Design Audio П Mobile/Social Exploratory x 6 x 6 x 18 Total x 18 x 18

JOMC 131 Requirements by Major

	ADPR	BRDC/SPMC	JOUR
Γ	Typography 1	Typography 1	Typography 1
Γ	Layout 1	Layout 1	Layout 1
Γ	Layout 2	Web 1	Web 1
Γ	Web 1	Photo 1	Web 2
Γ	Web 2	Photo 2	Mobile 1
Γ	Mobile 1	Mobile 1	Mobile 2

Note: Fashion Communication Majors should follow the ADPR track

JOMC 132 Requirements by Major

	ADPR	BRDC/SPMC	JOUR
	Audio 1	Audio 1	Audio 1
Г	Photo 1	Audio 2	Photo 1
Г	Photo 2	Audio 3	Photo 2
Г	Video 1	Video 1	Video 1
Г	Video 2	Video 2	Video 2
	Mobile 2	Video 3	Mobile 3

Note: Fashion Communication Majors should follow the ADPR track

Lessons Learned Year One

- Change wording
 - Stars to Levels
 - Advanced to Exploratory
- Reduce teaching themselves perception
 - Add introductory screencasts by faculty
 - Need to better enforce using the lab
 - Add workshops to better support learning
 - Utilize JOMC 130 course to help solve



Lessons Learned Year Two

- Extend JOMC 130 to full 8 weeks
 - Better address issues experienced by bulk of students
 - Dive into some of the technology/assignments
 - Answer questions to full group
 - Reinforce what is happening in the modules

Lessons Learned Year Two

- Run accelerated 8 week sessions
 - Run another set in Fall
 - Roll out more for Spring
- First Graduate Assistants to teach in the program
- Management is still a challenge
 - Spreadsheets to make tracking easier
 - Developing a custom online textbook to eliminate most management challenges
 - Explore other ways to streamline the process

Lessons Learned Year Two

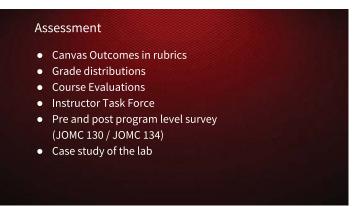
- More workshops
- More instructor support/training
- Course wide policies and deadlines
- JOMC 134 first full scale sections
 - Needed more deadlines for content and to correct problems sooner
 - Students love teams assembled using CATME
 - Students seeing the purpose of the courses

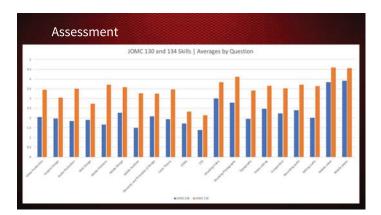


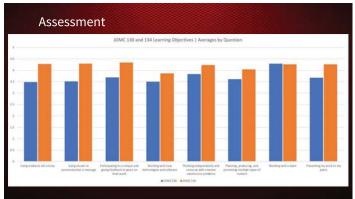




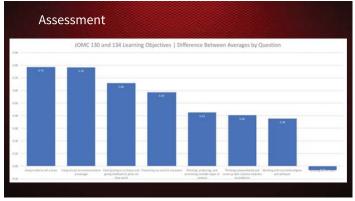




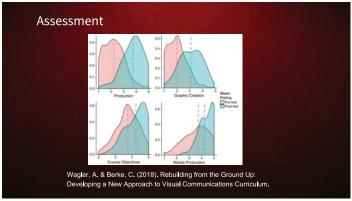












Awesome by-products from the new program

- First time grad students have taught in our college
- The lab has become a resource for students and college
- Research is being spun up
- Book developed for others to use and fund program
- JOMC 134 projects exceed original expectations

Moving Forward: the Practical

- Deploying the custom textbook in the Fall
- Make changes to modules as needed
- Add more instructional screencasts
- Have a more frequent workshop schedule
- Broader faculty participation in aspects of the course
- Find additional ways to increase value of lab

Moving Forward: the Theoretical

- Develop an assessment plan that includes outside evaluation of work
- Continue with student reported learning assessments
- Start to look for trends and long term impact for the college





A Course Delivery Evolution: Moving from Lecture to Online to a Flipped Classroom

Kim Michael and Tanya Custer

University of Nebraska Medical Center

This presentation will focus on the findings of a research study designed to evaluate different modes of course delivery in a Genitourinary Sonography course. The purpose of the study was two-fold, first to determine if the mode of delivery (traditional, on-line, flipped) affects student satisfaction in a genitourinary sonography course and second to evaluate overall course outcomes.

The study reviewed current data over a 9-year period from a single sonography course offered in the spring semester of a 12-month Bachelor of Science health professions program. During the first three years (2010-2012), the course was offered in a traditional, lecture style format. From 2013-2015, the course switched to a totally on-line format and then from 2016-2018 a flipped classroom format was utilized. Data was compiled and compared between the three styles using course evaluations and student outcomes. Assessment of student perceptions and outcomes noted mixed results in regard to the different modes of delivery utilized.

At the conclusion of the presentation, attendees will be able to:

- 1. Describe three different modes of delivery (traditional, on-line, flipped) used as part of a research study in a genitourinary sonography course.
- 2. Summarize data gathered on student perceptions in regard to the use of three different modes of delivery (traditional, on-line, flipped) in a genitourinary sonography course.
- 3. Summarize data gathered on lessons learned and student learning outcomes for three different modes of delivery (traditional, on-line, flipped) in a genitourinary sonography course.

Enhancing the Quality of Online Teaching via Collaborative Course Development

B. Jean Mandernach and Steve McGahan

University of Nebraska at Kearney

Collaborative course development offers a host of opportunities for academic departments to ensure consistency, maximize resource allocation, and increase scalability of online course offerings. By utilizing a collective design model, a team of content experts (i.e., department faculty), curriculum specialists, instructional designers, and instructional technologists can collaborate to develop dynamic online courses that can be taught by multiple instructors over successive terms. The key to a successful collaborative course design lies in an increased up-front investment of time and resources to ensure a well-designed course that aligns learning objectives, instructional content, activities, and assessments in a manner that is uniquely suited to the pedagogical opportunities inherent in the online environment. But despite the benefits of collaborative course design, it must be integrated in a manner that aligns with the unique context, needs, and resources of each individual department and institution to be effective.

Presentation will

- 1) explore various models for collaborative online course development,
- 2) discuss return-on-investment for collaborative course design, and
- 3) examine the role of collaborative course development to promote academic quality and instructional effectiveness in large or growing programs.

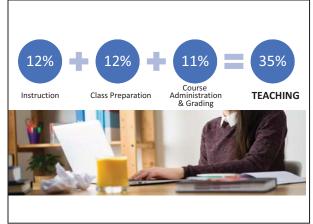
Participants will:

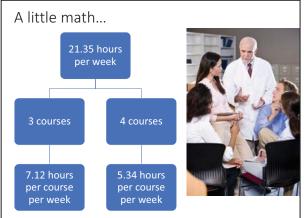
- 1) identify various models for collaborative online course development
- 2) outline benefits of collaborative course design
- 3) explore strategies for enhancing student learning via collaborative course development

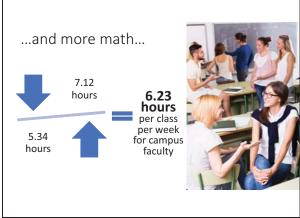






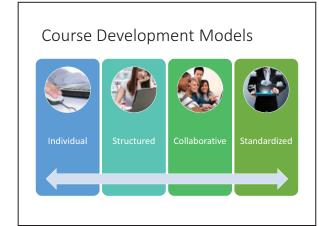












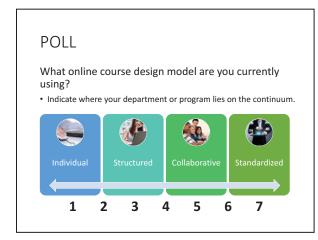
• Faculty autonomy to determine content, structure, appearance and format

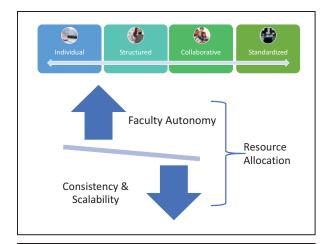
• Faculty autonomy to determine content; templates and guidelines to inform structure, appearance and format

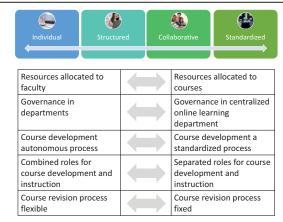
Collaborative

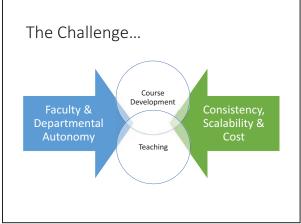
• Faculty autonomy to drive decision-making; input and guidance from instructional designers and instructional technologists

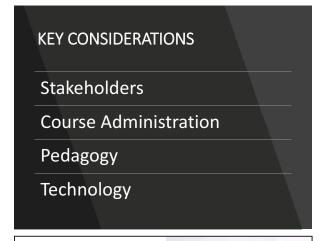
• Collective course design by content expert, curriculum specialist, instructional designer, instructional technologist and relevant professionals

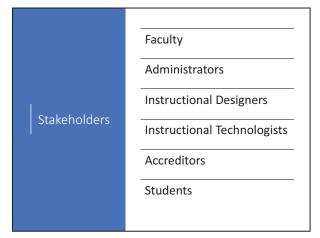












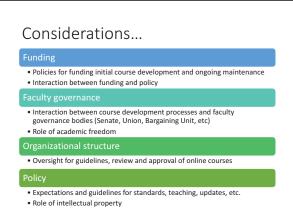




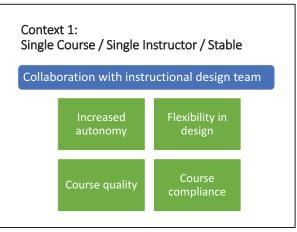


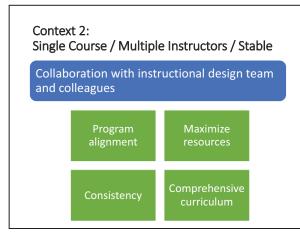


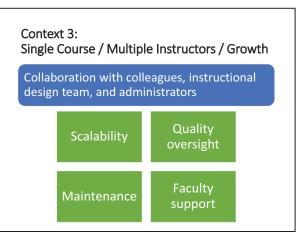


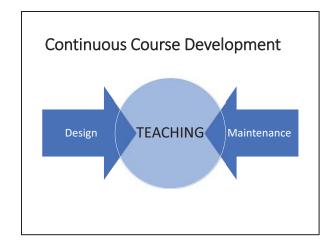


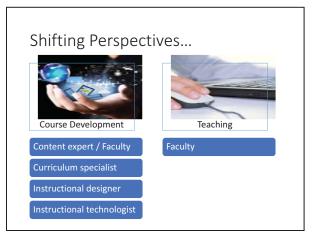




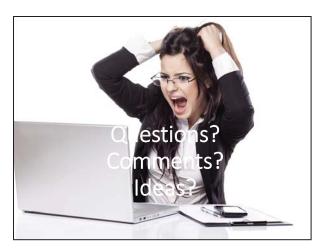












Collaborating Across NU for Accessible Video

Heath Tuttle,^{1,2} Jane Petersen,^{1,3} and Jaci Lindburg^{1,4}

1 University of Nebraska Information Technology Services
 2 University of Nebraska-Lincoln
 3 University of Nebraska at Kearney
 4 University of Nebraska at Omaha

Recent budget trends have led to more collaboration across university systems. These collaborations help members solve common problems, share resources, and develop and support innovative initiatives beyond what individual institutions could do alone. Historically, higher education institutions have fallen behind in ensuring accessibility for teaching and learning systems in general, and specifically for video. In the past several years, the University of Nebraska campuses have seen an increased need to meet accessibility requirements for video, particularly in online courses. In this session, members of ITS from each campus will present processes and outcomes that led to selecting ilos as the system-wide tool for video storage and captioning. Ilos allows NU to focus on pedagogical design and instructional support for our faculty, while the system takes care of the infrastructure and workflow needed to ensure we meet accessibility standards. This session will also outline the strategies employed to make a system-wide decision, describe the benefits for faculty and students, and explain the leadership lessons learned.

As a result of participating in this session, attendees will:

- understand more about ilos, an accessible video platform employed across the NU system;
- describe why accessibility is important and the other benefits to creating accessible course content;
- learn more about system-wide selection and approval of a common tool.



Agenda Academic Technology Community of Practice Journey to ilos Using ilos Lessons Learned Q & A

Academic Technology Community of Practice















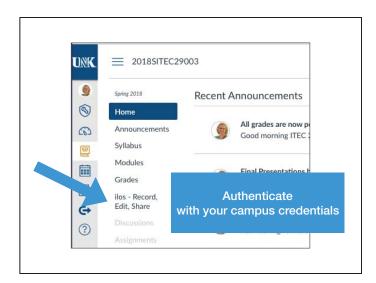


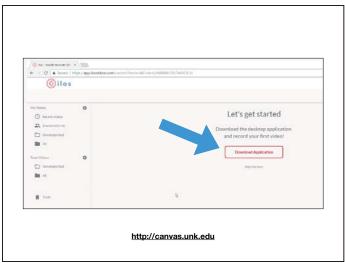






- · Authenticate and install ilos Screen Recorder
- Recording
- Requesting Closed Captioning
- Adding ilos video to a course
- Analytics









Structuring Security for Success

Matt Morton 1,2 and Rick Haugerud 1

1 University of Nebraska Information Technology Services2 University of Nebraska at Omaha

An overview of the approach and strategy for the reorganization of security. Review of the structure and how it aligns with others in the industry and best practices. What the future plans are and where do we see the organization growing to address the increased needs for security now and in the next 5 years.

- 1. How does our organizational structure align with higher education and industry best practices
- 2. What are the key initiatives driving security in the next year.
- 3. Lessons learned on how to (and how not to) implement change.



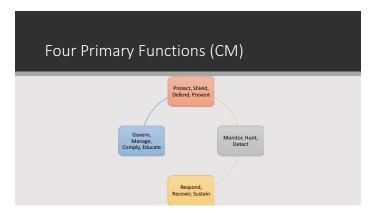
Organizing for Security

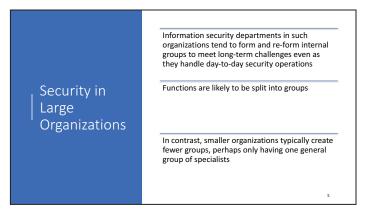
- Some organizations use the term "security program" to describe the entire set of personnel, plans, policies, and initiatives related to information security
- Among the variables that determine how to structure an InfoSec program are organizational culture, size, security personnel budget and security capital budget
- Multiple Sources of research/reference
 - Carnegie Mellon
 - Gartner
 - \bullet Management of Information Security 5^{th} Ed.

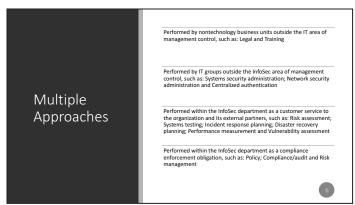
Functions Needed for InfoSec Program

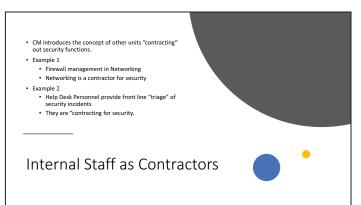
- Risk assessment
- Risk management
- Systems testing
- Policy
- Legal assessment
- Incident response
- Planning
- Measurement

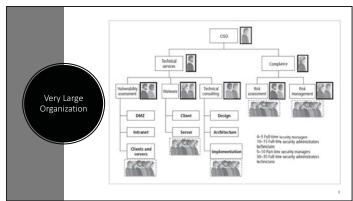
- Compliance
- Centralized authentication
- Systems security administration
- Training
- Network security administration
- Vulnerability assessment

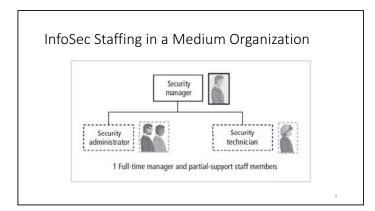


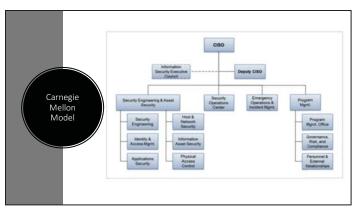




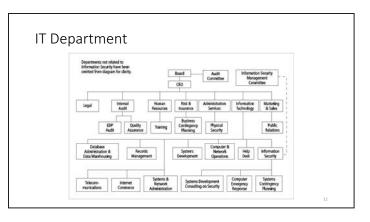




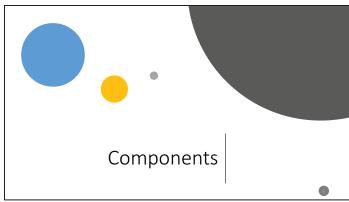


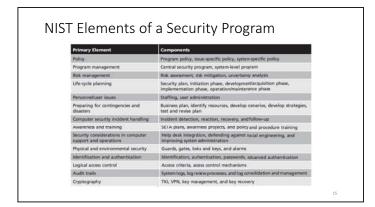




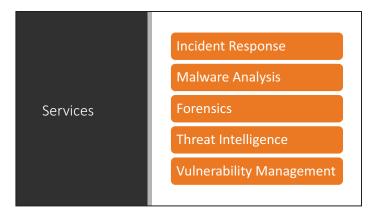






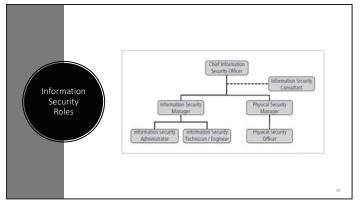


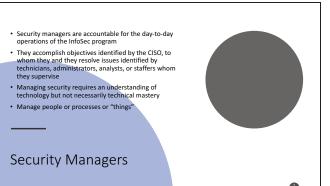












- The security administrator is a both technical knowledge and managerial skill The security analyst is a specialized security administrator that, in addition to performing security administration duties, must analyze and design security solutions within a specific domain Security analysts must be able to identify users' needs and understand the technological complexities and capabilities of the security systems they design Includes the people who watch intrusion consoles, monitor e-mail accounts, and perform other routine yet critical roles that support the mission of the InfoSec department Security Administrators and Analysts 2
- Security technicians are the technically qualified individuals who configure firewalls and IDPSs, implement security software, diagnose and troubleshoot problems, and coordinate with systems and network administrators to ensure that security technology is properly A security technician is usually an entry-level position, but one that requires strong technical skills, which can make this job challenging for those who are new to the field, given that it is difficult to get the job without experience and yet experience comes with the job Security technicians who want to move up in the corporate hierarchy must expand their technical knowledge horizontally, gaining an understanding of the general organizational issues of infoSec as well as all technical areas Security Technician or Specialist
- The InfoSec consultant is typically an independent expert in some aspect of InfoSec · He or she is usually brought in when the organization makes the decision to outsource one or more aspects of its security program • While it is usually preferable to involve a formal security services company, qualified individual consultants are available for hire Security Consultants **2 4**

Sizing the Security Organization

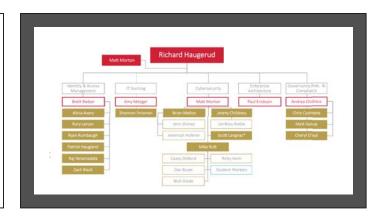
- · Number of end users per security full time equivalent (FTE)
 - 75% of organizations reported 500–3,000 end users per security FTE
 - 25% 500-1,000; low risk appetite
 - 25% 1,000-2,000; medium risk appetite
 - 25% 2,000–3,000 (33% for federal government)
 - high risk appetite
- Example
 - · Organization has 3000 employees
 - Low risk 3-6 in security Medium risk – 1.5 – 3 in security

 - High risk 1-1.5 in security

Sizing the Security Organization cont'd

- Enterprises that are information centric, with a considerable Internet exposure and a low risk appetite, should typically expect to have a staffing ratio closer to the 500 users to 1 security FTE
- Enterprises with less data dependence, less Internet exposure, and a higher risk appetite might expect a ratio closer to 3,000 users to 1 security FTE
- On average Security budget as a percentage of IT budget: 5.1%

Operations Threat Intelligence Engineering **NU** Model Governance, Risk and Compliance **Identity and Access Management**



Some relationship to size and risk appetite

Some relationship to maturity of security program

Must address operational aspects first





Future Directions for University of Nebraska Wireless Networking

Brian Cox 1,2 and Jay Wilmes 1,3

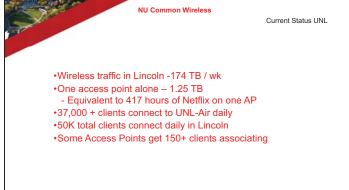
1 University of Nebraska Information Technology Services2 University of Nebraska at Kearney3 University of Nebraska–Lincoln

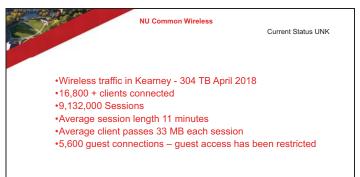
Information Technology Services is working to take the separate wireless network environments currently found throughout the University of Nebraska and move toward a single network, providing a common and convenient network environment throughout the university. This session will leave the audience with a general feel for where the network is headed and what it means to the University community.

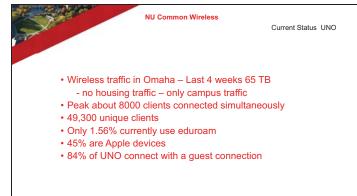


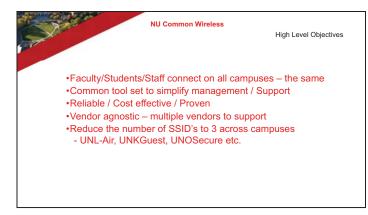


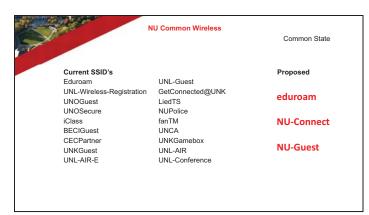






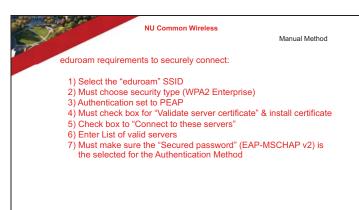


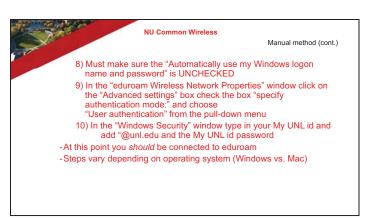


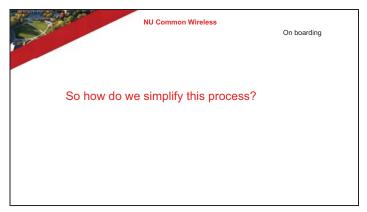


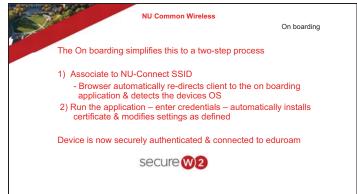










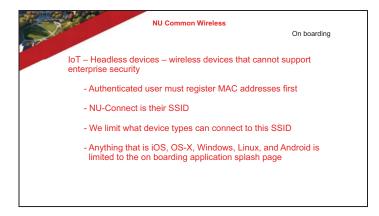






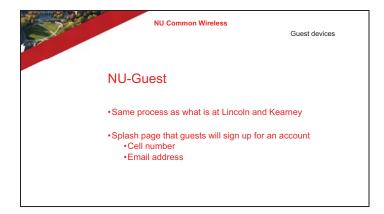


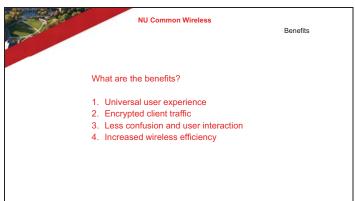






90 Future Directions for University of Nebraska Wireless Networking — Brian Cox & Jay Wilmes















Using Learning Analytics in Canvas to Improve Online Learning

Martonia Gaskill and Phu Vu

University of Nebraska at Kearney

The overarching goal of this presentation is to discuss the use of learning analytics in Canvas to track and predict students' performances and to provide timely support for success in online courses. In addition, the issue of students' privacy in online courses will also be reviewed through preliminary survey data. According to Horizon Report 2016, learning analytics is an educational application of web analytics aimed at learner profiling, a process of collecting and analyzing details of individual student performances in their online courses. Learning analytics has developed in three stages, moving from an emphasis on hindsight to foresight.

The first stage was describing results, the second stage was diagnosing, and the third stage is predicting what will happen in the future. Within the scope of this presentation, we will 1) present how we are using learning analytics, collected in Canvas courses in the instructor's role, to track and diagnose students' performances; 2) discuss our plan to dive deeper into learning analytics with a powerful tool of Google analytics in the third stage of predicting students' performances; 3) review preliminary survey data about students' perspectives on the issue of privacy of their learning behaviors in Canvas. The presentation will conclude with tips of how to use the learning analytics feature in Canvas and a call for research collaboration at the UN level to unleash the power of this feature to improve students' success in online and blended learning.

Participants take away includes:

- 1. Understand the goal learning analytics
- 2. Learn how to use learning analytics in Canvas
- 3. Get insights on issues related to students' privacy in online learning

Improving Online Learning with Learning Analytics



Dr. Phu Vu vuph@unk.edu Dr. Martonia Gaskill gaskillmc@unk.edu

Personal Story

How learning analytics saved me in my first year at UNK.

What Can We Collect/See as Online Instructors?

- 1. Students' login time
- 2. Students' rates of participation in specific activities

What Can We Collect/See as Online Instructors?

- 3. Amount of time spent interacting with online resources or with other students
- 4. Students' academic performances



- **1. Activity** allows the instructor to see when students view a page or participate in the course.
- **2. Submissions** allows the instructor to view if students submit the assignment on-time, late, or not at all.
- **3. Grades** use a box and whisker plot to show the distribution of grades in the course.
- **4. Student Analytics** shows page view, participations, assignments, and current score for every student in the course.

Reference: Retrieved from https://community.canvaslms.com/docs/DOC-10299

Still Hungry for Data? Google Analytics

- 1. Location
- 2. Devices
- 3. Course page navigation

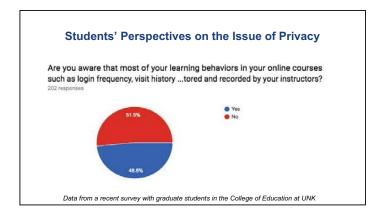
Google Analytics When do your users visit? Where are your users? What are your top devices? Where by time of day Unled States Unled States Last 27 days Last 27 days Last 27 days MOBILE OVERNIEW >

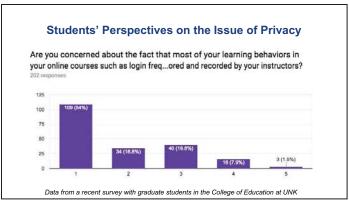
What Can We Do with this Data?

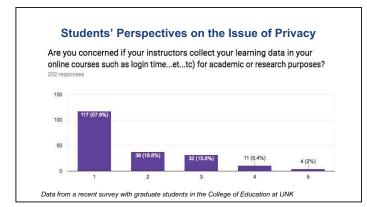
- 1. Describe and diagnose students' learning performances
- 2. Predict students' learning performances

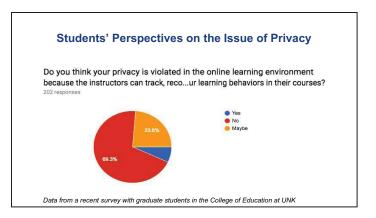
What Can We Do with those Data?

- 4. Make data-driven instructional decisions
- 5. Do research with your own available data









Questions?
Thank you!

Translating Studio Courses Online

Claire Amy Schultz

University of Nebraska at Kearney

This presentation will highlight some of the successes and struggles of translating a studio art class to the online format. Teacher reflections on pedagogical and instructional designs will be shared along with ways to provide students with a quality studio course experience in an online format.

- 1. Effectively incorporating VoiceThread in to online studio course design
- 2. Delivering studio content effectively online
- 3. Providing effective formative feedback to students' in progress works

Hidden Treasures: Lesser Known Secrets of Canvas

Julie Gregg, Melissa Diers, and Analisa McMillan

University of Nebraska Medical Center

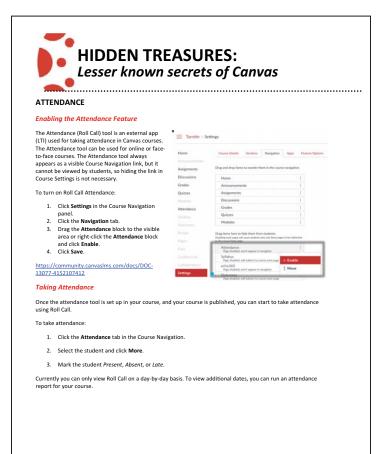
Join us as we explore some of the little-known Canvas secrets and tools that you can use to make your user experience more manageable in the Canvas Learning Management System (LMS). In this session, we will share tools, tips, and tricks that will help you take your Canvas skills to the next level. We did the research and want to share the tools and tricks we found that will help you make the most out of the Canvas dashboard, course setting, rich-text editor, grade book, calendar and more!

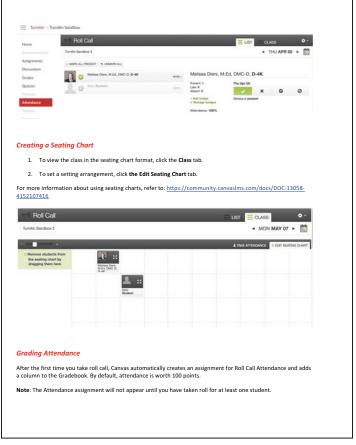
The participant should learn to:

Identify lesser known tools and features in Canvas

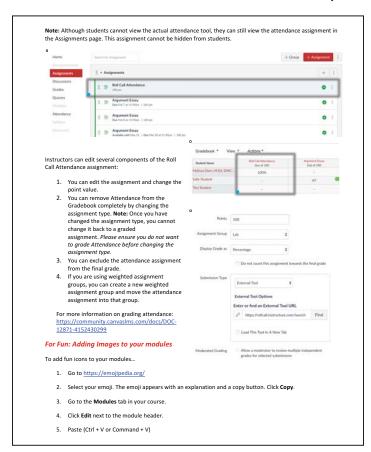
Describe examples of how tools, tips and tricks demonstrated can make for a more manageable user experience

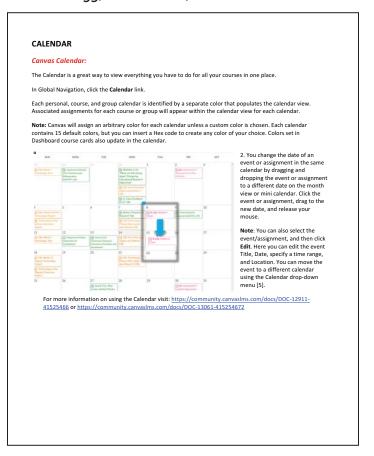
Employ Canvas tools to enhance the user experience

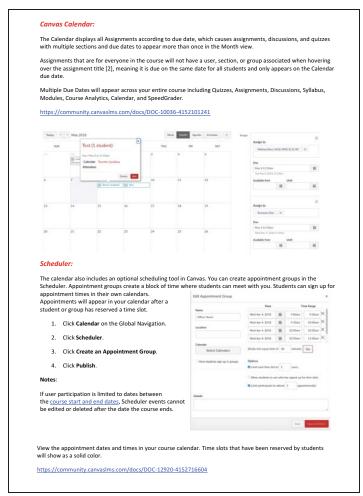


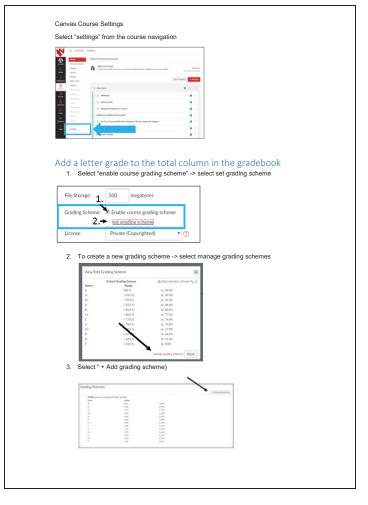


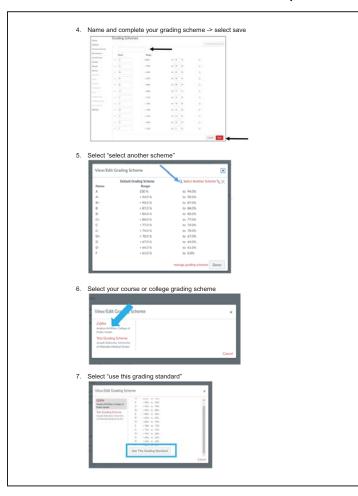
96 Hidden Treasures: Lesser Known Secrets of Canvas — Julie Gregg, Melissa Diers, and Analisa McMillan

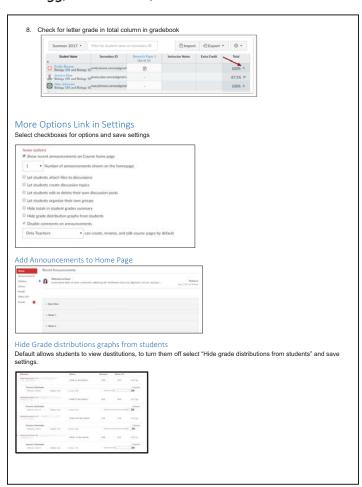


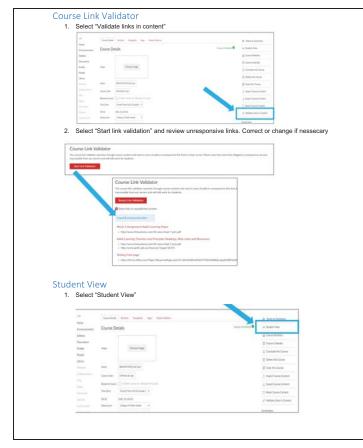


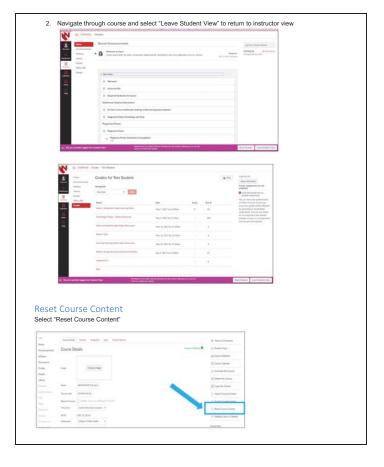




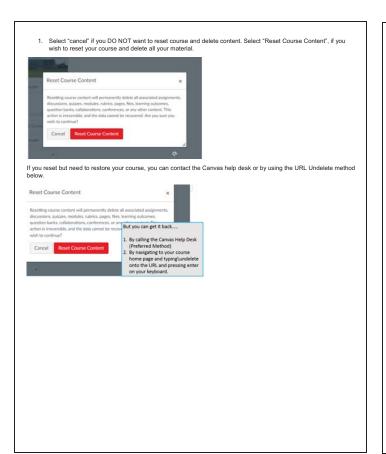


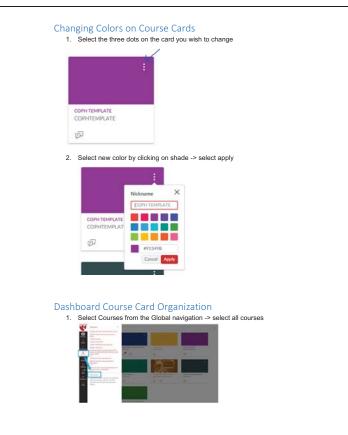


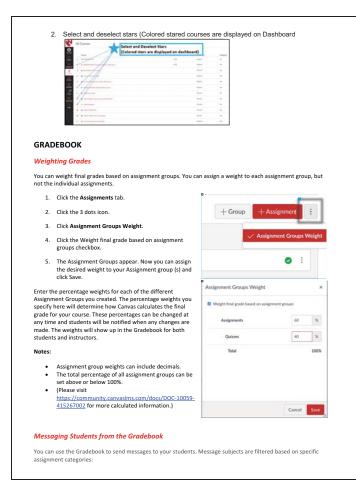


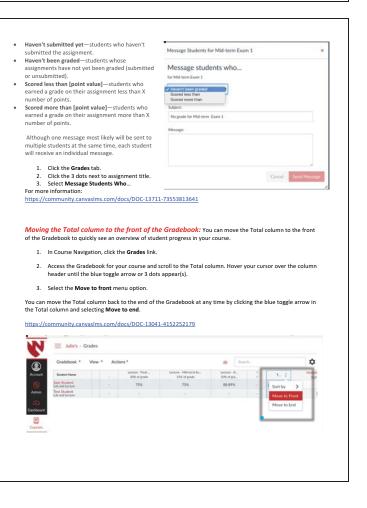


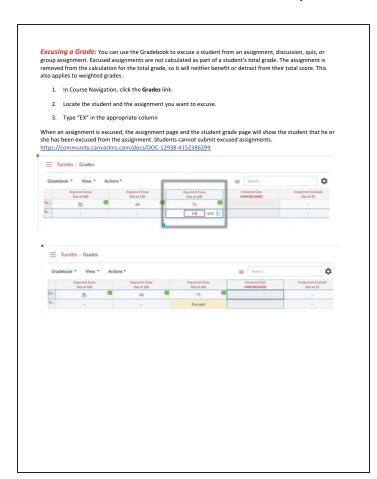
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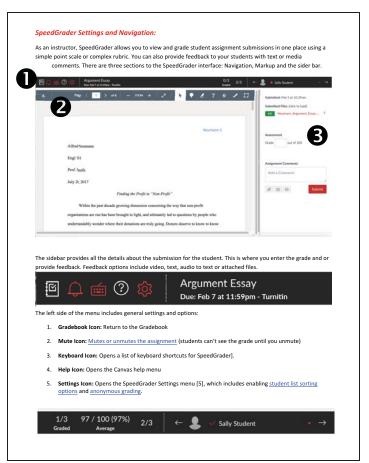












The right-side of the menu includes grading information such as

- The number of assignments that have been graded out of the total number of submission
- and the average score and percentage You can use this information to keep track of your grading progress.

The right side of the menu bar includes the student list for the assignment. SpeedGrader opens the assignment for the first student listed in the student list, arranged alphabetically by last name. If you have activated student view, the Test Student will be shown at the end of the student list. The student list also displays the status of each student's submission

- 3. Click the red arrow to view the student drop down list.
- 4. A. Navigate the left and right arrows to move forward and back between students for easy grading.

For more information about using SpeedGrader, visit: https://community.canvaslms.com/docs/DOC-12774-415755021

QUOTAS

The overall UNMC Canvas contract includes the storage limit for the entire UNMC instance (submissions, personal files, etc.) is 500MB per FTE. UNMC has 3717 contracted FTE's = approximately 1.85TB total. There are three system-wide limits within Canvas:

- COURSE LIMIT: The overall system-wide course limit is currently set at 500MB.
 Limit includes all Teacher file uploads in the course.
 - The Canvas System Administrator can manually set an individual course limit.

User files are a cumulative total of all files uploaded from all courses.
 The Canvas System Administrator can manually set an individual course or group limit but not an individual user limit. The user limit is only changed at a system-wide level.

File uploads count towards a user limit:

- Manual uploaded files via the "Files" area
- 2. Profile picture
- 3. Files uploaded in an **ungraded** discussion post
- 4. Attached files when utilizing the internal email within Canvas

Files which are uploaded as an assignment or a ${\bf graded}$ discussion post do not count towards the user files limit.

A graded discussion post is defined as the check box located under "Options" is checked. If you would like the discussion post not to be graded, but not count against the user limit, type a 0 in the "Points Possible" box.

Keep in mind the discussion post will be displayed in the Grade Center but not be calculated in the overall grade.

https://community.canvaslms.com/docs/DOC-10565-421241989 https://community.canvaslms.com/docs/DOC-10687-4212189819

GROUP LIMIT: The overall system-wide group limit which is currently set at 100 MB.
 Limit includes files which are uploaded in the group page.
 The Canvas System Administrator can manually set an individual group limit.

FILES THAT DON'T COUNT TOWARDS QUOTAS

- Assignments Record and upload media
- Conference Recordings
- Conversations Record and upload media (except recorded on mobile device saved to My Files)
- Rich Content Editor Record and upload media
- SpeedGrader Record and upload media

https://s3.amazonaws.com/tr-learncanvas/docs/CanvasMediaComparison.pdf

RICH CONTENT EDITOR

TinyMCE Editor: The Canvas rich content editor is available in the following Canvas features: announcement assignments, discussion, pages, quizzes and syllabus. utilizes the tinymce rich content editor. The tinymce rich content editor keyboard shortcuts can be used within canvas:

https://www.tinvmce.com/docs/advanced/kevboard-shortcuts/

Paragraph drop-down menu: Use the Paragraph Drop-down Menu instead of Font Size to make text accessible for screen readers. Paragraph is used for general narratives. Heading 2 is used for headlines. Heading 3 is used to separate section of text. Heading 4 is used for sub-sections or general sections.



Hyperlinks: To add the accessibility information for a hyperlink

In the rich content editor, highlight the text on the page, press CTRL + K (Windows) or CMD + K (iOS on your

- 1. Add the URL to the first box.
- The "Text to display" box, this should already be filled in with the same text that was highlighted on your page (in this example, I highlighted the word "link".
- The "Title" box, this is the pop-up text that you would want people to see when they hover their mouse over the link.
- 4. The "Target" drop-down can be set to "None" or "New window".



Single space: To separate lines of text with a single space press: SHIFT + Enter (Windows) or OPTION + Return



Accessibility checker: The Rich Content Editor includes an accessibility tool that checks common accessibility errors within the editor. This tool can help you design course content while considering accessibility attributes and

This tool only verifies content created within the Rich Content Editor. You may also use other accessibility tools to

All components are designed according to the template set in the institutions Theme Editor and verifies the

- Table captions: Tables should include a caption describing the contents of the table
- Table header scope: Tables headers should specify scope and the appropriate structure
- Table header: Tables should include at least one header.
- Sequential headings: Heading levels should not be skipped (e.g. H2 to H4). However, the tool does not check if the first header starts with H2 or whether the headings are sequential with the rest of the content in the page. Tables do not begin with H1, which is designated for the page title.
- Heading paragraphs: Headings should not contain more than 120 characters.
- Image alt text: Images should include an alt attribute describing the image content.
- Image alt filename: Image filenames should not be used as the alt attribute describing the image content. Currently, files uploaded directly to Canvas create a redirect that does not properly verify image filenames.
- Image alt length: Alt attribute text should not contain more than 120 characters
- Adjacent links: Adjacent links with the same URL should be a single link. This rule verifies link errors where the link text may include spaces and break the link into multiple links.
- Large text contrast: Text larger than 18pt (or bold 14pt) should display a minimum contrast ratio of 3:1.
- Small text contrast: Text smaller than 18pt (or bold 14pt) should display a minimum contrast ratio of 4.5:1.

Note: For text contrast, the Accessibility Checker verifies color using the same calculations as the WebAIM tool and verifies against Theme Editor templates without High Contrast Styles However, High Contrast Styles must be enabled for verification if a link color is overwritter manually in the Rich Content Editor.

STEPS

1. Open the Rich Content Editor using one of the Canvas features which support the Editor

2. Click the Accessibility Checker icon.

Note: Depending on the width of your browser window, you may have to scroll the menu bar horizontally to view the icon.



When an issue is detected, the Rich Content Editor highlights the affected area [1]. The sidebar displays the accessibility attribute [2] and an explanation of the error [3]. To learn more about the accessibility attribute, click the Information icon [4]. If the Rich

Content Editor contains more than one issue, you can view all issues by clicking the Previous or Next buttons

3. Click Apply button > When all issues have been fixed, or if no issues are detected in the Rich Content Editor the sidebar indicates that no issues exist and will close automatically.



Accessibility menu: Press the following on the keyboards to open the accessibility menu

Windows Open accessibility help menu ALT + F8 ALT + FN + F8 ALT + FN + F9 Open editor's menu bar ALT + F9 ALT + F10 ALT + F10

Removing formatting copied from another source: The Rich Content Editor to format text that you pasted from another source. Keyboard shortcuts:

Windows copy and paste: Ctrl-C, Ctrl-V

Windows copy and paste-without-formatting: Ctrl-C, Ctrl-Shift-V iOS copy and paste: CMD-C, CMD-V

iOS copy and paste-without-formatting: CMD-C, CMD-OPT-Shift-V

Aligning text: The Rich Content Editor toolbar to align the text. You can set

the position of the text on the page with the Left, Center, and Right Alignment tools or indent the text using the Indent tool.



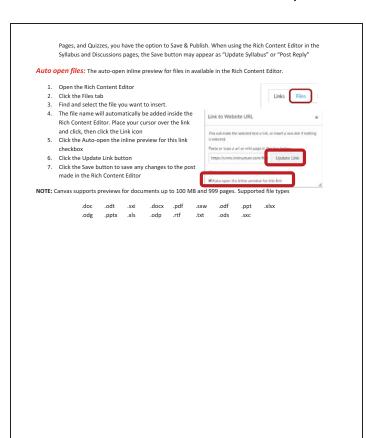
Align directional text: The editor also supports directional text so users can insert content right to left. This feature can be added using the Right to Left button within the editor. It generally involves text containing different types of <u>alphabets</u>, but may also refer to <u>boustrophedon</u>, which is changing text directionality in each row.

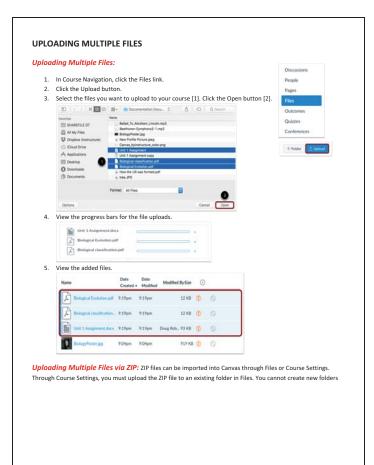


ring formatting from selected text:

- Highlight the desired text to remove formatting
- Click the Clear Formatting icon to remove the formatting Click the Save button
 - Note: When using the Rich Content Editor in Assignments, Discussions,







through the Course Import Tool. ZIP files containing internal folder structure retain that folder structure upon You can import a ZIP file directly in Files. In Course Navigation, click the Files link.

- Click the Upload button
- Click the title of the file you want to import [1] and click the Open button [2].



If you want to expand all the contents of the ZIP file, click the Expand It button [1]. If you want to upload the ZIP file intact, click the Upload It button [2].



- You can track the progression of the upload by monitoring the progress bar.
- Your files will be uploaded to Files in Canvas

USAGE RIGHT AND USER ACCESS FOR A FILE

If usage rights feature is enabled in your course, you must set a usage right (copyright) for each file you upload to your course. Usage rights must be assigned to files before files can be published to the course.

Usage Rights is currently a course opt-in feature

- 1. In Course Navigation, click the Files link.
- 2. Click the line item for the file
- 3. Click the Settings icon
- and the Manage Usage Rights link
- You can also click the file's warning icon or the Files toolbar Manage Usage Rights link

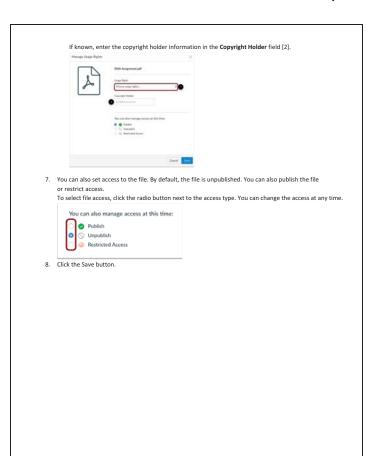


- 6. In the Usage Right drop-down menu [1], select one of five usage rights. If you are an instructor and are not sure which usage right applies to your file, please consult your institutional admin for guidance:

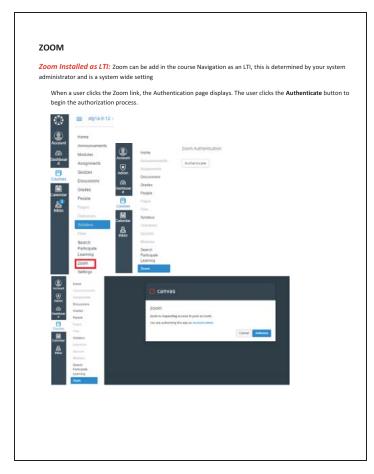
 I hold the copyright (original content created by you)

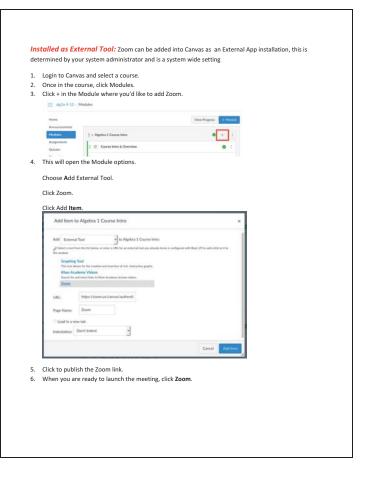
 - I have obtained permission to use the file (authorized permission by the author)
 - The material is in the public domain (explicitly assigned to public domain, cannot be copyrighted, or is no longer protected by copyright)
 - The material is subject to fair use exception (excerpt or summary used for commentary, news reporting, research, or analysis in education)
 - The material is licensed under <u>Creative Commons</u>; this option also requires setting a specific Creative Commons license

102 Hidden Treasures: Lesser Known Secrets of Canvas — Julie Gregg, Melissa Diers, and Analisa McMillan









Your Learners, Their Devices & You: Incorporating BYOD Technology into Your Didactics

Tedd Welniak

University of Nebraska Medical Center

It is theorized that mobile technology, in its place alongside other "intellectual technologies" throughout human history, has contributed to significant shifts in the way that newer generations discover, interpret, interact with, and learn new information. The BYOD (Bring Your Own Device) movement in education has been touted as a means of actively and individually engaging these learners with content using technology that many of them may already own or are familiar with. The depth to which this movement has been applied in the medical and graduate medical education communities has been variable, partly owing to the fact that only recently have "digital natives" become old enough to be progressing through their graduate professional training. In this session, we discuss our experience with BYOD education software that allow facilitators to interact with, transmit, and manage content in real time on individual learners' mobile devices and tablets in both small group and smaller classroom settings as means of improving engagement, actively gauging understanding, and allowing for guided self-exploration of evidence-based medicine concepts.

By the end of the session, attendees should be able to:

- 1) Review the backdrop by which the "BYOD" movement has come about as a means of teaching the "digital learner"
- 2) Become familiar with the capabilities of "device-sourcing" software such as Nearpod and Kahoot! for use in both moderate-sized classroom and facilitated small group formats
- 3) Discuss limitations and pitfalls of live "presentation-sharing" technology

Extending the Conversation about Teaching with Technology

Marlina Davidson, Timi Barone, Dana Richter-Egger, Ryan Schuetzler, and Jaci Lindburg

University of Nebraska at Omaha

Over the past two years, UNO has increased the number of online course selections by nearly 50 percent, offering seven fully online undergraduate programs, seven fully online graduate programs, and an assortment of online minors, certificates, and endorsements. The need to expand the conversation about teaching with technology and cultivating effective online teaching environments has never been more important, as UNO seeks to maintain our growth in online learning and retain our current students taking online courses. A strategy introduced in 2017 that has been extremely effective has been the Faculty Liaisons for Instructional Design Program, co-sponsored by the Office of Digital Learning and the Senior Vice Chancellor for Academic Affairs. Liaisons work regularly with UNO Instructional Designers, Instructional Technologists, and Digital Learning Administrators to pilot emerging technology, provide feedback on technical transitions and messaging to faculty, represent fellow faculty's experiences and concerns with systems and tools, lead college-specific programming initiatives, and host a campus-wide teaching with technology showcase. This session will provide an overview of the liaison program and feature a panel discussion from four liaisons who will share key strategies they have employed to work across their colleges to support and engage with fellow faculty.

As a result of participating in this session, attendees will:

- * Learn about the faculty-support-faculty model employed at UNO for instructional design;
- * Describe strategies employed by faculty liaisons to expand the conversation about teaching with technology;
- * Strategize opportunities and barriers to support this type of faculty involvement within their department/college/campus.

Scaling up Student Assessment: Issues and Solutions

Paul van Vliet

University of Nebraska at Omaha

Online courses permit the enrollment of large numbers of students, which forces instructors to address the problem of providing valid and reliable assessments of student performance on a large scale. This paper examines two broad approaches for scaling up student assessment and feedback in higher education: automated assessment techniques and distributed assessment methods.

Participants will:

Learn about difficulty of scaling up assessments in online courses.

Become familiar with automated assessment techniques.

Become familiar with distributed assessment techniques.

Scaling up Student Assessment: Issues and Solutions

Dr. Paul J.A. van Vliet

Information Systems & Quantitative Analysis
University of Nebraska at Omaha

Scaling up Student Assessment: Issues and Solutions

- The Problem of Scale
- Student Assessment Criteria for Quality
- Automated Assessment Techniques
- Distributed Assessment Methods
- Conclusion



The Problem of Scale



The Problem of Scale

- Online and MOOC-style courses can accommodate large numbers of students
 - Students increasingly wish to validate their learning or obtain academic credit
 - How to assess student achievement and provide effective feedback on student work?

How can instructors scale up assessment and feedback efforts while maintaining high levels of quality and academic rigor?

Student Assessment – Criteria for Quality

Student assessment:

A wide variety of methods that educators use to evaluate, measure, and document the academic readiness, learning progress, and skill acquisition." (S. Abbott [Ed.] 2013)



Student Assessment – Criteria for Quality

- Assessment purposes:
 - Support the student learning process
 - Permit formal certification of student achievements
 - Provide for monitoring and accountability of the educational process to stakeholders



Student Assessment – Criteria for Quality

- Assessment matters!
 - Assessment outcomes often have substantial consequences for the student
 - Assessments ought to be carefully designed
- Assessments should be trustworthy
 - Validity assessment measures what it proposes to measure
 - Reliability the measure is consistent and reproducible across time, measurements, and instructors

Student Assessment – Criteria for Quality

- · Additional assessment criteria
 - Efficiency time and resource requirements
 - Fairness lack of bias toward certain groups of students
 - Impact assessment measure results in accurate consequences
 - Meaningfulness perceived value of assessment task to the student
 - Transparency clarity of assessment and scoring criteria

Student Assessment – Criteria for Quality

- In higher education, course grades often result from subjective evaluations or expert assessments by course instructors, especially for writing and design assignments
 - There is no clearly defined "right answer"
 - This presents a substantial challenge to scaling up student assessment!

Scaling Up Student Assessment

- Two broad approaches:
 - Automated assessment techniques
 - Distributed assessment methods
- Any tactic for scaling up assessment must take into account the vital role assessment plays in the learning process!

Automated Assessment Techniques



Automated Assessment Techniques

- Computer Assisted Assessment (CAA) has long been deployed to score objective tests
 - Efficient and accurate
 - Can easily be integrated inside online lessons
 - Immediate feedback for students
 - Reporting options for instructors
- Drawbacks:
 - Feedback not individualized to students
 - Limited applicability for testing higher-order skills, especially when questions are simple

Automated Assessment Techniques

- Multiple choice exams have been critiqued for focusing on shallow information recall rather than on complex critical thinking.
- However, it is possible to write more complex MC-questions which require the analysis of multiple facts or alternatives (multilogical thinking)



Automated Assessment Techniques

- Automated Essay Scoring (AES)
 - Instructors grade "training set" essays
 - Machine learning algorithms examine training set to extract relevant essay features
 - Essay length, grammar errors, average word length, vocabulary usage, word frequency, etc.
 - New essays are then graded on these features
 - AES software does not "read" essays, it "describes" them, providing lists of relevant features found

Automated Assessment Techniques

- Automated Essay Scoring benefits:
 - Speed: EAS software can grade 16,000 essays in 20 seconds
 - Validity: evaluations of short, focused essays closely match human grading efforts
 - Instructor time freed up for interacting with students
 - Instructors can assign more writing assignments per course, providing students with more opportunities to practice and learn

Automated Assessment Techniques

A Win for the Robo-Readers

INSIDE HIGHER ED 2012

In the most comprehensive review to date of automated essay grading software, U. of Akron researchers find little difference between grades of robot and human readers.

The study compared the software-generated ratings given to more than 22,000 short essays, written by students in junior high schools and high school sophomores, to the ratings given to the same essays by trained human readers. The differences, across a number of different brands of automated essay scoring software (AES) and essay types, were minute.

"If you go to a business school or an engineering school, they're not looking for creative writers. They're looking for people who can communicate ideas. And that's what the technology is best at" evaluating."

 ${\sf Mark\ D.\ Shermis,\ Dean\ of\ Education,\ University\ of\ Akron}$

Automated Assessment Techniques

- Automated Essay Scoring drawbacks:
 - AES are most effective with short, focused predictable essays
 - AES emphasize spelling, punctuation, and grammar over organization, argument, and meaning
 - Incapable of recognizing innovative ideas, advanced research, creative expression, complex arguments, metaphors, humor, etc.
 - Incapable of determining truth of facts
 - Students can "game" the software with longer sentences and complex words

Automated Assessment Techniques

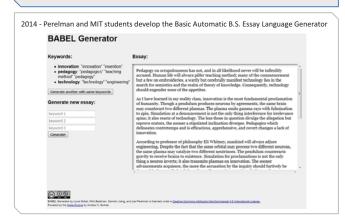
Facing a Robo-Grader? Just Keep Obfuscating Mellifluously

The New york Times 2012

AES critic Les Perelman (research affiliate, MIT) was awarded a top grade of 6 by e-Rater, the automated grader developed by Educational Testing Services for an essay which included the following:

"Teaching assistants are paid an excessive amount of money. The average teaching assistant makes six times as much money as college presidents. In addition, they often receive a plethora of extra benefits such as private jets, vacations in the south seas, starring roles in motion pictures. Moreover, in the Dickens novel Great Expectation, Pip makes his fortune by being a teaching assistant."

Automated Assessment Techniques



Automated Assessment Techniques

 In 2013, the National Council of Teachers of English issued a position statement which strongly opposes automated essay scoring.

Computers are unable to recognize or judge those elements that we most associate with good writing.

Computer scoring removes the purpose from written communication — to create human interactions through a complex, socially consequential system of meaning making — and sends a message to students that writing is not worth their time because reading it is not worth the time of the people teaching and assessing them.



Automated Assessment Techniques

- Automated Essay Scoring evaluated:
 - AES are capable of evaluating basic student writing skills such as grammar, vocabulary, and syntax
 - AES are as of yet incapable of measuring quality or creativity of essay contents



Distributed Assessment Methods



Distributed Assessment Methods

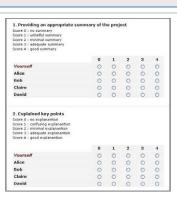
- The need for human reviews:
 - In many disciplines, a singular correct solution to a design problem often does not exist
 - Evaluation of design-type artifacts often rely on qualitative assessments
 - Qualitative critiques are commonly part of a mentoring process
 - For courses with large enrollments, could these assessments be "crowdsourced"?

Distributed Assessment Methods

- Calibrated Peer Review
 - Develop a specific scoring rubric for each course assignment
 - Clearly define criteria for performance levels of each aspect of the assignment
 - Introduce students to rubric and have them grade a practice assignment
 - Students compare their evaluation to instructor grading to calibrate their own grading practice
 - Students review work of approximately 5 fellow students

Distributed Assessment Methods

Sample CPR Rubric



Source: flexiblelearning.auckland.ac.nz

Distributed Assessment Methods

- Calibrated Peer Review benefits:
 - Studies found peer ratings agree with instructor ratings
 - Use of rubrics results in consistent assessment within a course and across course sections
 - Peer grading effort further engages students with course material
 - Assessor perspective provides students with opportunities for self-assessment
 - Instructor time freed up to mentor students and answer questions

Distributed Assessment Methods

- Calibrated Peer Review drawbacks:
 - CPR assumes all participating students are capable, motivated, and well-intentioned
 - Students opposed to additional workload may rush assessments, resulting in poor evaluation and lowquality feedback
 - Students may be unprepared or unqualified to assess content of peer assignments
 - Anonymity of peer reviews reduce may result in low grader commitment and inappropriate comments

Distributed Assessment Methods

- Calibrated Peer Review evaluated:
 - CPR has the potential to provide large numbers of students with qualitative feedback
 - CPR is not effort free
 - Assignments must be designed with CPR in mind
 - Students need to be guided through the process
 - Students need to be motivated to participate
 - Validity and reliability of assessments is difficult to establish

Distributed Assessment Methods

- · Conditions for CPR success:
 - Learners are at similar skill level
 - Learners are mature, self-directed, motivated
 - Learners have well-developed communications skills
 - Assignments are low stakes or not for academic credit

Distributed Assessment Methods

- Calibrated Peer Review variations:
 - Ordinal/comparative peer grading which ranks assignments rather than assign a specific grade
 - Using AES to cluster essays based on similar content or features; similar essays should receive similar grades
 - Using past students as Community TAs instead of current students to perform the reviews.

Assessment Remains a Challenge



Conclusion

- Scaling up student assessment
 - Objective multiple choice tests remain the most common approach
 - Automated and distributed assessment methods are the only common alternatives
 - Complicating matters are the authentication of students completing assignments and plagiarism in student work

Conclusion

Machines cannot provide in-depth qualitative feedback.



Students are not qualified to assess each other on some dimensions.

Instructors get tired and make mistakes when assessing large numbers of students.

Piotr Mitros, Chief Scientist, edX

Conclusion

Some fields have well established large-scale assessments, but most areas of higher education do not.



We need to invest more in highquality, scalable assessments, as well as research designs, including pretesting and experiments, to understand what and how registrants are learning

HarvardX and MITx: The First Year of Open Online Courses, 2014

Conclusion

• Is it time for transformative innovations?

Could we transform scale into an opportunity?

Could we design social computing technologies to enable education that is impossible at smaller scales?

Chinmay Kulkarni, 2014

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Closing Keynote Presentation

Navigating Change: A Whitewater Adventure

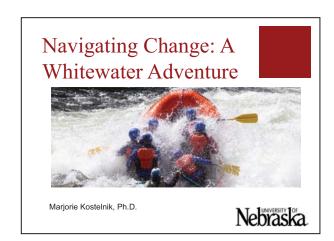
Marjorie J. Kostelnik Professor and Senior Associate to the President

University of Nebraska Administration

Some people think of higher education as a sleepy backwater, where hardly anything changes too often. But for all of us living through it right now, higher education has become a whitewater adventure! Change is happening all around us in hundreds of different ways. We explored the who, why, how and what of change.

- Who is changing ... who is promoting change...who has to live with the change
- Why are some people just better at change than others and what can you do to help your organization move forward?
- How can you manage change best ... both as someone called on to change and someone who is a change leader?
- What can you do to make the change process more worthwhile and more effective no matter what your role may be?

We closed the day with a rousing exploration of how change happens, who can make things change for the better and what your role can be whenever the next BIG CHANGE appears. Based on research and extensive experience working with organizations deeply involved in change, Marjorie Kostelnik provided insights, humor and a few words to the wise – all about change.





A Call for Change

- "Education is the most powerful weapon you can use to change the world."
- Nelson Mandela



Perfect Storm





NEAFCS Creed:



 May I always be willing to accept the challenges of changing times

Change Agents

Serve as catalysts for change...

 Change agents provoke or nudge or elevate others into thinking, feeling or behaving in ways they would not otherwise have demonstrated.



Myths about Change Agents

- ■Born not made
- Change has to be big
- ■Single skill set
- Must be charismatic, persuasive, directive, in-charge
- ■Must have 'the title'
- Few of us have the greatness to bend history itself; but each of us can work to change a small portion of events it is from numerous diverse acts of courage and belief that human history is shaped.

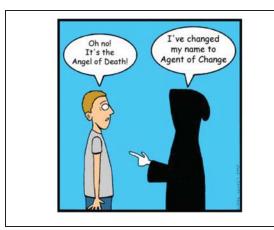
Truths

- Change agents come in all types and roles Each time we ask someone to change,
- Everyone has the potential to influence change
- How we interact with people influences their reactions to change

 Each time we ask someone to change, we ask him or her to take a journey into incompetence.

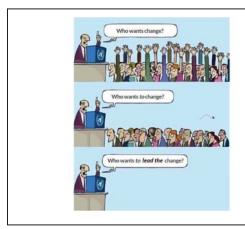












Three Steps Involved In Making a Change

- 1. Awareness
 - 2. Deciding to act
 - 3. Taking action

1. Awareness

Self-Awareness

- Self reflection
- We all have distinctive strengths – what are yours?

Other-Awareness

- Looking beyond yourself
- What are you hearing, seeing, learning about team/stakeholders?
- What 'other' strengths can you build on?

2. Deciding to Act

- Good citizenship is our responsibility!
- One aspect of good citizenship is being willing to step in when our talents are needed.
- Do not wait for perfection!
- ■Total knowledge
- ■Everyone on board



3. Taking Action

- ■Perspective taking
- Instrumental knowhow



People Create Change





Change is a Process

Change is happening all around us.

Change takes time to evolve; sometimes it is predictable, sometimes it is not.

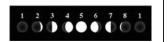
Phases of Use

Use

Orientation
Preparation
Mechanical use
Routine Use

Refinement Integration Renewal

Non-use

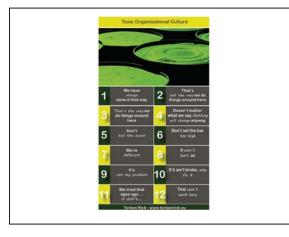


People Vary in Their Reactions to Change

- Adopters/advocates
- Slow to warm up/wait and see

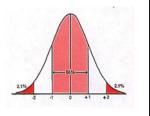


■Resistors/saboteurs



Concentrate on Those Who Have the Most Potential for Change

- Encourage the early adopters
- Focus on the middle
- Ignore or isolate the resistors



Leadership/Followership

Two Sides of the Same Coin





Leadership/Followership Both Require COURAGE

COURAGE TO:

- ■assume responsibility
- serve
- **■**challenge
- ■participate in the transformation
- ■make mistakes, and learn from them
- abandon successful past practices



It's a Balancing Act

Your situation and your specific talents will determine when you will be needed to lead and when it is your responsibility to be a supportive follower.



Leaders and Followers Help Determine Each Other's Success







Take the Leap

- Reach out
- Scan the environment
- Focus on the big ideas
- Take risks
- Compromise
- Share the credit
- Persevere
- Inspire and support the next generation of change agents

Where are you looking to anticipate the next change? Check your calendar... Who are you spending time with? On what topics? Where are you traveling? What are you reading?

How diverse is your personal and professional network?

- Are you developing relationships with people who are very different than you?
- Differences can be biological, physical, functional, political, cultural, or socioeconomic.



Are you listening?



- Make it easier to listen
- Assign devil's advocate role
- ■Lateral thinking
- Require multiple strategies



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