

The Path Forward: Using Canvas Commons for Online Information Literacy Instruction in the Health Sciences

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Background

Institution

Murray State University is a regional, comprehensive public university in Murray, Kentucky with six research and instruction librarians.

Enrollment

Total: 9,569

Undergraduate: 8,215

Graduate: 1,354



Pogue Library - Murray State University



How can we improve the delivery of information literacy instruction in the health sciences in a virtual environment?

This paper examines the integration of Canvas Commons Modules to provide downloadable, open-access information literacy tutorials for students across various disciplines, including the health sciences.



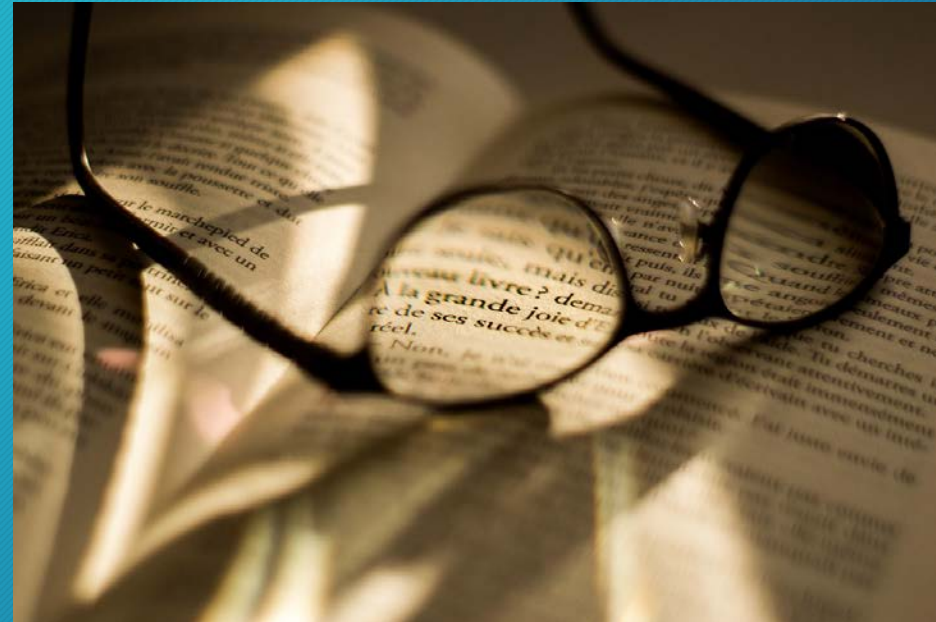
Woman in Black Blazer. Retrieved from <https://images.app.goo.gl/hm582isMecCyZoRJ8>.



Information Literacy Instruction Program

Curriculum Mapping Goals

- Students should attend a minimum of two to three information literacy (IL) sessions during their undergraduate career
- Liaison librarians develop a curriculum map for each program in their subject area targeting specific courses for IL instruction
- The selected courses have specific learning objectives for each session
- Targeted courses are ones with research components



<https://www.needpix.com/photo/1050582/eyeglasses-lens-book-notes-letters-pages-light-free-pictures-free-photos>



The Winds of Change Timeline



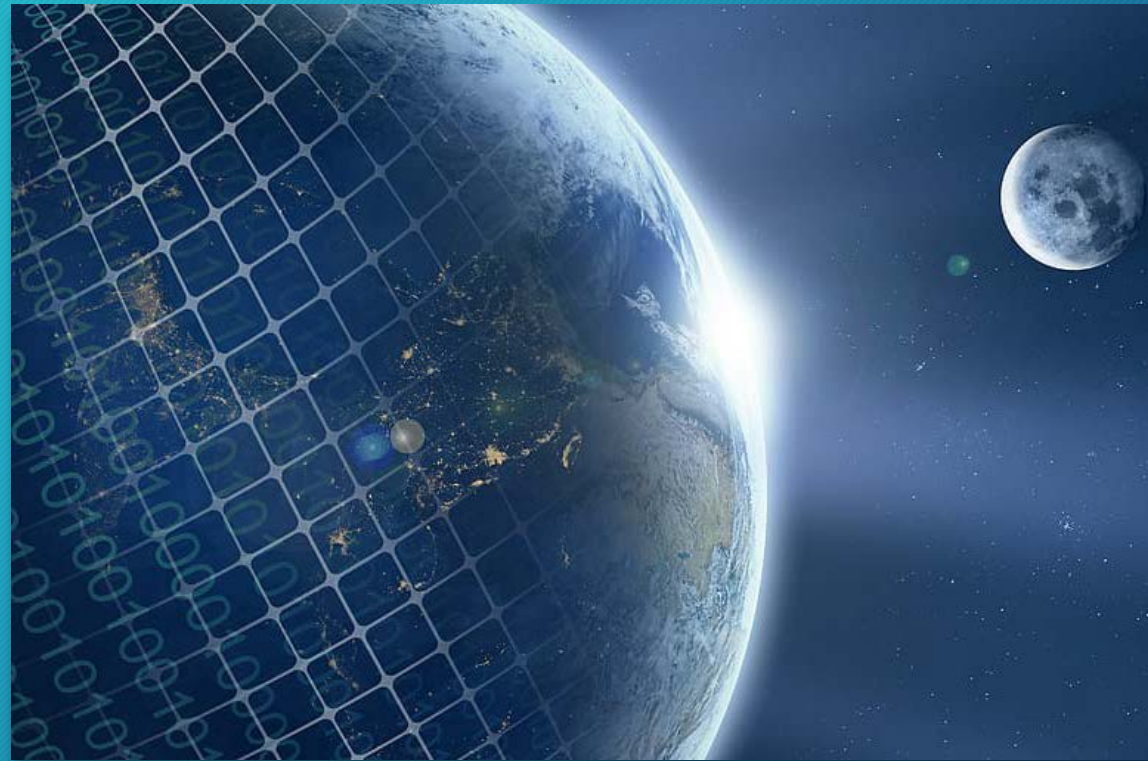
- Nursing classes going online - Doctoral program is all online
- Fall of 2019 - New partnership with an online service provider to expand online offerings - focusing on graduate courses
- COVID-19 required all classes to go online in March, 2020
- COVID-19 resulted in a focus on Hy-flex learning in Fall, 2020

Piacquidilo, Andrea. (2018). *Boy on Computer*. Retrieved from <https://images.app.goo.gl/9H5bZVjHf63cPPKaA>.



Assumptions in a virtual world

- Online students still need information literacy help - how best to deliver it?



Earth Planet Space Free Photo retrieved from <https://www.needpix.com/photo/1682609/earth-planet-space-simulation-virtual-globe-world-universe-nasa>



Challenges of Change



Pixabay. (2017). *Question Mark Illustration*.
Retrieved from
<https://images.app.goo.gl/Bh5iFFCVH2DMEGxGA>.

- Asynchronous recorded instruction is difficult to scale to a large number of classes
- Even before the pandemic we knew we needed to reach more online students and more face to face classes virtually.



Recent history of our Information Literacy Instruction

Synchronous, one shot sessions

2,027 Sessions since 2013 with 41,548 students attending (duplicates not removed)

- Asynchronous videos
 - 4,412 views for all instruction videos on YouTube channel since 2013
 - Videos on library website or LibGuide
 - Topic specific videos made and sent to instructors upon request with no regard to curriculum mapping



Advantages of Prior Formats

Synchronous, one shot sessions

- Develop relationships with students and faculty

- Answer questions in real time

Asynchronous videos

- Opportunity to reach students that weren't in a session

- Opportunity to reach students at their point of need



Students in classroom at school open house, The University of Iowa, June 1, 1930

Creator:

Kent, Frederick W. (Frederick Wallace), 1894-1984



Limitations of Prior Formats



Synchronous, one shot sessions

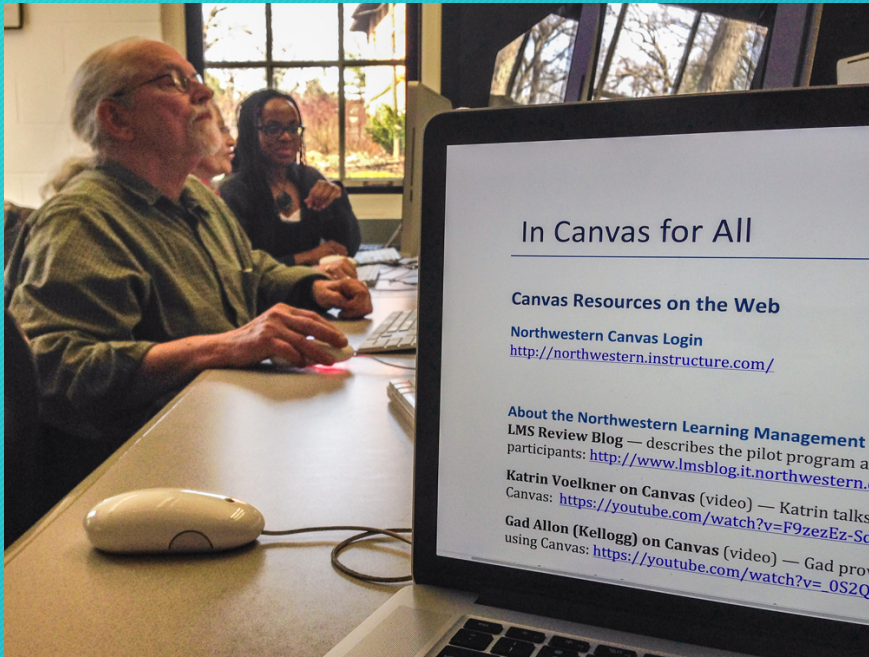
- Dependent on Librarian availability and Instructor willingness and availability
- Not always at students' point of need
- Information is dependent on attendance

Asynchronous videos

- Not standardized
- Inability to immediately answer student questions



Canvas Commons: An Attractive Option



- Learning Object Repository (LOR)
 - Allows sharing of course content between users of Learning Management System
- Provides a standardized format for content delivery
- Available as early as 2014
 - University implemented in 2019 due to separate efforts by faculty and librarians

Creator: Mark Schaefer, Mark Schaefer
Copyright: ©2014 Mark Schaefer Retrieved from
<http://web.madstudio.northwestern.edu/bye-bye-blackboard-hello-canvas/>



Canvas Common Modules

Created to provide an equivalent level of library instruction online as in face-to-face instruction

Can also be used in tandem with face-to-face instruction, if requested.



Royalty free image - PickPik Retrieved from [https://images.app.goo.gl/Yd2ZZXEdavkHrVJDu5](https://images.app.goo.gl/Yd2ZXEdavkHrVJDu5)



Pilot Program

Developed first modules

- Fall of 2019
- Allowed librarians to make information literacy modules for faculty to import and share with their students

ENG 105 and COM 161

- First classes to have modules
- ENG 105 - *Critical Reading, Writing, and Inquiry*
- COM 161 - *Introduction to Public Speaking*
 - Usually offers 20 sessions each semester



Off Campus Classes

- Off campus courses may not receive any library instruction
 - Travel constraints
 - Lack of instructor buy-in



PxHere - Free Image - Retrieved from
<https://images.app.goo.gl/a8j1pubSLNUHwBKB8>



Tutorial Construction

Designed according to:

- Quality Matters Higher Education Rubric (QM)
- ADA compliance
- Reusability
- Balance text and visual
- Enhance, not replace, synchronous instruction
- Curriculum Mapping



Picpedia - Alpha Stock Images - Nick Youngson -
retrieved from
<https://images.app.goo.gl/MExfkSf2Y14UfwWh7>



Accessibility

- Compliance with the ADA
- Best Practices as outlined by Rabidoux and Rottman (2017)
 - All hyperlinks were text within a sentence
 - Sans-serif font for readability (Josephson, 2008)
 - In high contrast with black lettering on a white background for students with visual impairments
 - Balance text with visual elements
 - Explanatory text to describe images and alt-text added to each
 - Recordings with clear pronunciation at consistent volume with minimal background noise
 - Videos are hosted by YouTube with the ability to add closed-captioning by submitting a transcript
 - Videos no longer than five minutes



Learning Objectives

After completing modules students should be able to:

- Identify their subject librarian and contact them
- Differentiate between different types of resources typically used in an argumentative research paper
- Navigate the library website and locate the appropriate Research Guide for their major.
- Navigate the library resources utilizing appropriate search techniques to find the resources they need



Additional Learning Objectives for Health Classes

NUR 412 - Leadership & Management in Nursing

Communication Disorders

Learning Objectives

- Evidence-based Practice
- Study Design
- Critical Appraisal



Lifestock photo by Josep M. Suria. Retrieved from <https://images.app.goo.gl/9b7uKjSBhpD6RmgP6>



Providing Additional Modules



- Continually developed based on existing and revised curriculum maps and instructor requests
- Primarily through email and phone communication with faculty

Picpedia - Alpha Stock Images by Nick Youngson, retrieved from <https://images.app.goo.gl/TV7qvcRag4u772oV7>



Health Modules in Fall 2020

- Made module for Nursing Leadership class which has a large research component
- Made module for Communication Disorders Neurology class which also has a large research component.



Flickr: CC Retrieved from
<https://images.app.goo.gl/MF9P2nVTJPqJfDhE8>



Topics

- Librarians mapped each module to topics which we needed to accomplish the learning objectives

☰	▼	NUR 412 - Racers Library Tutorial	✔	+	⋮
☰	📄	NUR 412 - Introduction	✔		⋮
☰	📄	NUR 412 - Learning the Library Lingo	✔		⋮
☰	📄	NUR 412 - Search Techniques	✔		⋮
☰	📄	NUR 412 - Finding Books, CDs, DVDs, etc.	✔		⋮
☰	📄	NUR 412 - Finding Articles	✔		⋮
☰	📄	NUR 412 - Critical Appraisal of Articles	✔		⋮
☰	📄	NUR 412 - Getting Help	✔		⋮
☰	🔗	Student Feedback ↗	✔		⋮



Topics included in the Module

- Introduction
 - Video tutorial specific to Murray State
 - Series of screenshots of the homepage and Research Guides
- Learning the Lingo
 - Vocabulary words included in module
- Search Techniques
 - Video about Boolean operators
 - Images of searches
- Finding Books, CDs, DVD, etc.
 - Information about the library card catalog,
 - Library of Congress Classification System
 - WorldCat
 - Interlibrary Loan



Topics Continued

- Finding Articles
 - Information about accessing and using library databases such as CINAHL and Medline
- Critical Appraisal
 - How to determine a study's value, reliability and relevance to clinical decision
 - Does it include a thorough methods and materials section
- Where to Go for Help
- Student Feedback Form



Marketing the Modules

- Fall Faculty Summit
- Faculty Newsletter
- Departmental meetings/emails
- Communication with program coordinators

**Get to Know...Info
Literacy Modules**

at Murray State University Libraries




Tutorial Stats at the end of Spring, 2020

Spring 2020

- 21 tutorials in 12 disciplines
- 65 downloads
- (duplicates not removed)

Fall 2020

- Added 40 additional tutorials
- 131 downloads



Module	Level	Author	Downloads	Stars
GLTA 400 - Racers Library Tutorial	Undergraduate - Graduate	Jeffrey Henry	1	0
ENG 105 - Racers Library Tutorial	Undergraduate	Candace Vance	18	1



Lessons Learned

- Quiz difficulties
 - Had to communicate with instructors about how to remove the quiz from the tutorial
- Instructor time expectations
 - Had to communicate with instructors about the time it takes to create a tutorial with modifications for additional information



Assessment

- Student Survey
 - Five-point Likert-type scale to agree (5) or disagree(1) to a series of statements
 - I learned something new.
 - I feel more confident about using library resources
 - I intend to apply what I just learned



Results

Question	Average In-Person Responses	Average Online Modules Responses
<i>I learned something new</i>	4.58	4.24
<i>I feel more confident about using library resources</i>	4.42	4.33
<i>I intend to apply what I just learned</i>	4.48	4.19

[Table 1 - Assessment Comparison]

Data from ENG 105 and COM 161 in the 2019-2020 School Year

Data from COM 161 face to face is from 2018-2019 school year, since they didn't request any face to face for the following year.



Feedback Questions

- 1. What did you like most about this module?
- 2. What else could the library do to help you succeed in your classes?

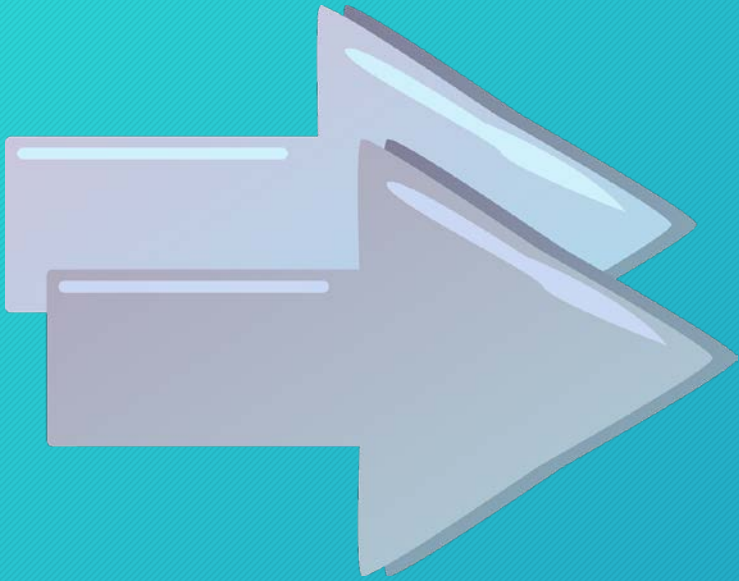


Student Feedback - What did you like most about this module?

- "Library sources to use not only in one specific class, but all my classes throughout college"
- "That it used pictures of the web pages and clearly listed everything out in a way that made sense"
- "I enjoyed how quick and easy it is to understand while still showing the importance and proper techniques in the citation of credible/good sources."
- "Gave me confidence to search things in the library."
- "I've done this thing six times and I never get tired of reading the word 'Boolean' "



Moving Forward



- Periodic updates will be indicated with new cover photo
- Tutorials will be added for the Integrated Studies program, which is mainly comprised of distance and non-traditional students
- Instructor Request will be utilized in addition to curriculum mapping to determine tutorial development
- A Faculty Feedback form will be developed to gather additional assessment data

Clker-Free-Vector-Images (pixabay.com).
Retrieved from
<https://images.app.goo.gl/d7zMYfkQqrxrxF2Uc7>.



Citations

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<https://www.insidehighered.com/digital-learning/views/2017/05/03/tips-designing-ada-compliant-online-courses>



Questions?

Please feel free to ask or email me if you have any questions.

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