“The mail never stops. It just keeps coming and coming and coming...”

Providing Research Support and Instruction to High-enrollment Programs

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Michigan Academic Library Association Annual Conference - East Lansing, MI - May 17, 2018
Origins of the Partnership

- Health science and nursing librarians are often ‘lone wolves’ on campus
- OU-EMU Instructional Exchange
  - Faculty status with non-scheduled summers
  - Similar challenges regarding meeting faculty & student research needs
- Benefits of the partnership
Outline of Discussion

● The Problem - too many students and programs, not enough time
● Strategies - Myriad solutions applied
● Results - Less repetition, greater sanity, extended access
● Sustainability - Questionable but doable
The Problem - Overview

● Positive job outlook for healthcare professionals- 18% 2016-2018
  (https://www.bls.gov/ooh/healthcare/home.htm)
  ○ Number of masters & PhD programs is expanding as the health
  professions move towards graduate degrees as terminal
  degrees, e.g., physician assistants, physical therapy, doctor of
  nursing practice

● Undergraduate and graduate students
  ○ Providing research support for year-round enrollment
The Problem - Quantity

- Provide support for 4,000+ students per semester
- Multiple course sections requires a multifaceted approach
- Variety of program formats
  - Traditional two year
  - Accelerated 1.5 year
  - Hybrid
  - Fully-online
The Problem - Learning

How to meet the learning styles and needs of large numbers of students

- High number of returning students, non-traditional, full-time employed, part-time, parents, veterans
- Limited exposure to
  - Research terminology
  - Research skills
  - Project formats- posters, slide presentations, papers
The Problem - Graduate Student Needs

- Graduate student research questions require more librarian time
  - Developing the multi-part research question
  - Locating higher-level resources
  - Locating a variety of resources
  - Accessing resources
  - Evaluating higher-level resources
Strategies

Research Instruction
- Technology
- Pedagogical Approaches

Individualized Research Support
- Technology
- Face-to-Face
Strategies - Research Instruction

TECHNOLOGY

- Self-enrollable general content short courses with badges
  - Universal topics; plagiarism, Introduction to library research, Data Literacy

- Open tutorials with or without badges
  - General topics, how to select a database

- Subject and course targeted research tools
  - Course guides, Nursing Toolkit
Self-enrollable Short Courses with Badges - Example

### Databases: What to Use, When?

While virtually any website can function as a database, the library subscribes to many research databases - these are focused on academic resources for specific scholarly disciplines. Just as we found in searching IMDB, Amazon, and JSTOR, searching different academic databases yields different results.

For instance, examine the search results for "academic achievement" "social media" "college students" in three different subject-specific databases:

#### Academic OneFile

![Academic OneFile search results](image)

#### JSTOR

![JSTOR search results](image)
Data Literacy & Plagiarism Tutorials-Optional Badges

WHAT IS DATA?
WHAT IS DATA LITERACY?
Strategies: Research Instruction

Technology

- Short videos for FAQs and class assignments
- Learning modules integrated into the campus learning management system
Short Videos for FAQs - Example

NURS 505 - Health Care Trends and Delivery Systems

CINAHL & PubMed - Video Help
- CINAHL and PubMed at EMU - Navigating to Your Database
- Using Keywords to Search CINAHL
- Searching with CINAHL Headings
- CINAHL/PubMed Limiting by Language
- Limiting to Research Articles in CINAHL
- Limiting to Peer-Reviewed Articles in CINAHL
- Using Keywords to Search PubMed
- More videos
  Halie Library's YouTube channel, with many helpful videos explaining advanced search techniques with PubMed and CINAHL.

Basic Searching in CINAHL

Advanced Searching in CINAHL
Short Videos for Class Assignments - Example

NURS 372/374 - Nursing Research

- Introduction
  - Overview
  - Links to Main Resources & Web Sites

- Research Journal & Review of Basic Searching

- Resource Authority & EBP Publication Pyramids
  - Resource Authority & EBP Pyramids of Publication

- Evidence Based Practice Information
  - Places to Locate
    - Evidence-Based Practice Information
    - Searching for EBP Materials in CINAHL
  - PubMed
    - Searching for EBP Materials in PubMed

- Evidence-Based Medicine (EBM) & Evidence-Based Practice (EBP) Terms & Process
Research Guide for FAQs - Example

Physician Assistant

PA Books
Medical & Health eBooks
Anatomy
Physiology
Pathophysiology
Cultural Competence in Healthcare
Accessing Books @ the Library
Articles
Evidence-Based Practice
Statistics
PA Board Review Study Guides
Contact a Librarian

IMPORTANT INFORMATION!

The titles listed on this page are only selected titles. The library owns many, many more titles. For additional titles, search the library catalog.

Websites on Cultural Competence in Healthcare

- “Culture Clues” from the University of Washington Medical Center
- Georgetown University National Center for Cultural Competence

Print Books on Cultural Competence in Healthcare

Cultural Competence in Caring for Muslim Patients by G. Rassool
Call Number: RT86.54 .C83
ISBN: 9781137353400
Publication Date: 2014

Cultural Competence in Sports Medicine
Call Number: RG1210 .C365
ISBN: 9780736722811
Publication Date: 2011

Cultural Competency for the Health Professional by P. Rose
Call Number: R727.3 R67
ISBN: 9781449672128
Publication Date: 2013

eBooks on Cultural Competence in Healthcare

Cultural Competence in Health
eBook (click title to view)

Cultural Competence in Health Education and Health Promotion
Call Number: RA 418.5.T73
Publication Date: 2006 & 2014
Learning Modules Integrated into the Learning Management System - Example

Library Research Online Module and In-Class Activities

University librarian Julia Rodriguez is coming to our class to teach about how to conduct proper library research in assignments. She is doing a flipped lecture, you must complete the online learning lesson below 18th on your time. During class time, she will be conducting in-class activities that go along with the lesson. You will complete all online lessons and activities and participate in the in-class activities you will receive 5 extra points on the exam in the course.

- Library Research online lessons
- Library in-class activity 1 - Databases
  Available from January 18 2017, 12:40 PM
- Library in-class activity 2 - Evaluating sources
  Available from January 18 2017, 12:40 PM

Many search engines provide a way to limit or refine results to display only journals that are peer-reviewed but this feature does NOT filter down to the content that is not peer-reviewed information. Thus, it is important to understand how to recognize peer-review articles and non-peer-reviewed content if you want to ensure that you are using the highest quality scholarly articles.

Peer-reviewed articles are the highest quality scholarly articles.

1. Peer-review articles and journals
   Peer-review is a review process that journal editors use to ensure that the articles they publish represent high quality scholarship.
Strategies: Research Instruction
Pedagogical Approaches

- Addressing different learning styles

Techniques:

- Flipped classroom model - online modules completed before class
- Required scheduled librarian consultation hours in program-based building for group assignments
- Required librarian consultation hours scheduled in the classroom for a group assignment; co-teaching structure
Occupational Therapy Research Course

Session #1 - Meet with the two combined classes in the very early weeks of the semester

- Database exploration exploration with in-class sharing
- In-class small group exercise = research question database selection

Session #2 - Meet with each class separately, but located in adjacent classrooms; three hours total

- Both the teaching faculty member and I meet with each small group at least once
- Faculty member working with each group

Session #3 - Optional small group appointments using my electronic calendar
Physician Assistant Research Course

Assignment

- Small groups of 3-4 students assigned to a pro or con stance on a controversial medical topic
- Each small group required to meet with the librarian in-person at least once

Problem - Overwhelmed my appointment calendar to such a degree that students from other the health sciences programs were unable to make appointments for three weeks

Solution

- Hold office hours for two hours immediately following the time slot for the PA research course in their building
- Disseminate a sign-up sheet to the professor so student the groups can sign up for a single time slot until all groups have had an opportunity to meet with me at least once
- Optional small group appointments using my electronic calendar
Strategies - Individualized Research Support

Technology

- Template emails for FAQs
- Electronic appointment scheduling with shorter appointment durations, e.g., 30 minutes instead of 60 minutes
- Small group consultations
- Telephone consultations
- Online meetings
- Searchable tutorials database
Strategies - Individualized Research Support

Face-to-Face

- Train-the-trainer instruction for FAQs:
  - Librarians and reference desk staff
    - Librarian meetings
  - Program faculty
- Regularly scheduled drop-in workshops
- Partnership - Writing Center
Strategies - Other Remedies

- Ask (plead) for help
  - Redistribute introductory undergraduate course research instruction to other librarians
- Trained library student assistants and staff how to make referrals
- Encourage the student to use the Academic Projects Center and virtual reference
Sustainability - Technology

- Guide maintenance
  - Part-time lecture(s) trained to update guides
- Videos need updating regularly
  - Match changes of website/databases
  - ADA - W3C compliance
- Online modules
  - Less internal links needing updating
  - Need to adjust lessons to changing syllabi
  - Problems with ‘giving away’ content - move to local system with badges?
Sustainability - Face-to-Face

- Electronic appointment scheduling with shorter appointment durations
- Small group consultations
- Telephone / WebEx consultations
- Regularly scheduled drop-in workshops
- Train-the-trainer instruction
- Partnership - Writing Center
Sustainability - Questionable but ....

- Reaching out
- Letting go...
- Need many of these structures in place
- Schools of Nursing require their own librarian subject specialist
Questions? Best Practices?