Library-Faculty-Vendor Partnership to Create STEM Digital Learning Activities

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Brief Overview

• About Olin
• Information literacy at Olin
• Creating and executing a rubric
• Challenges & extending partnership
• About Credo
• Creating digital learning activities
• Usability testing
• Looking forward
About Olin
About Olin’s Library
Information Literacy at Olin

• US Standards based (ALA STS, ABET)

• Through years
  – First-year AHS
  – Second- and/or third-year subject course
  – Senior capstone project

• Assignment-driven

• Mostly lecture with open research time, using LibGuides
Creating and Executing a Rubric

- Flip to workshop-based
- Partner with faculty to create research rubric
- General to specific
- Digital exercises & tools
- Flexible, modular
- Word doc, Research tips, LibGuide
- Assessment of student work
- Rubric testing
Challenges & Extending the Partnership

- Format
- Simple Tools, Sophisticated Users
- Cost
- Limited Staff

Extend the Partnership...Enter Credo
Creating Digital Learning Activities: Instructional Design Process

• Initial brainstorming
• Process outline
• Development of storyboard
• Development of assessment components
• Development of multimedia material
Creating Digital Learning Activities: Common Challenges

Introduction to Library Research Activity

This interactive presentation will walk you through the process of collecting appropriate resources for use in a research paper using open web and library tools. You will also have the opportunity to print or save the materials that you collect throughout the exercise. Before you get started, please utilize The Human Connection Research Guide as a companion to help you find appropriate research material.

After you have completed each of these steps, you will have the skills necessary to locate scholarly articles, books and additional sources for all of your academic needs.

In this exercise you will:
- Pick a Topic
- Begin Your Search
- Investigate Alternative Search Terms
- Start Collecting Citations
- Utilize a Cross-Platform Search
- Collect Journal Articles
- Use Interlibrary Loan (If Necessary)
- Follow Citations Through Time
- Find a Book

CONTINUE
Creating Digital Learning Activities

Step 1: Choose Your Topic
Your professor may provide you with a topic, or they may ask you to choose a topic for your research. If you need help, this tutorial offers best practices and can help you to narrow a topic.

Enter your topic:
DNA

Step 2: Brainstorm Search Terms
An excellent tool for brainstorming search terms and keywords is the Literati Mind Map, which can also be accessed on The Human Connection Research Guide.

Think through alternative terms as well as additional terms to help narrow or broaden your search.

Step 3: Begin Your Search
Begin your search by consulting a general online source, such as Wikipedia.

Copy and paste relevant citations for Wikipedia entries in the text box provided.

What do you need for a webpage citation?
- Author (or corporate author)
- Article title
- Date published or updated
- URL and date accessed

Step 4: Start Collecting Citations
Head to Google Scholar.

Perform your search and experiment with terms. Remember that your alternate search terms are at the bottom of this page.

Look for “Link to Olin Content”, but don’t limit yourself to these citations.

Paste relevant citations in the text box provided. Don’t just paste the URL - be sure to include all the information you will need to find it again later. Author, Article Title, Journal, Date, and Page Range.
Usability Testing

- Female
  - Senior
  - Electrical and Computer Engineering

- Male
  - Junior
  - Engineering with concentration in computer engineering

- Female
  - Senior
  - Engineering with concentration in interaction design

- Female
  - Sophomore
  - Electrical and Computer Engineering
Looking Forward
Summary and Resources:

Thank you!

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