Collaborative K-12 Outreach: K-12 STEM and Beyond

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University of Nevada, Las Vegas

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Library Science and Archives Symposium
American Association for the Advancement of Science Pacific Division Meeting
University of Nevada, Las Vegas

- Carnegie Research University
- Total enrollment 27,000
- 82% NV residents, 4% international
- > 50% racial and/or ethnic minorities
UNLV’s Mission

“The University of Nevada, Las Vegas is a research institution committed to rigorous educational programs and the highest standards of a liberal education."

“UNLV’s distinctive identity and values permeate a unique institution that brings the best of the world to our region and, in turn, produces knowledge to improve the region and world around us.”
University Libraries’ Vision Statement

“The UNLV Libraries will define the new academic research library—bringing people and information together in innovative ways. As UNLV emerges as a leading urban research institution, the Libraries will pioneer dynamic, user-focused methods of reaching, connecting, and engaging learners.”
The Project: Rebel STEM Academy

• Provost Office’s Goals:
  – Recruit high-achieving local high school students
  – Spotlight UNLV’s STEM and Beyond resources
    • STEM = Science, Technology, Engineering, Mathematics
    • Beyond = Health Sciences, Community Health Sciences
Libraries’ Rebel STEM objectives

- Build personal connections with students and teachers
- Galvanize students’ interest in STEM
- Teach information literacy skills
Partners

- High School STEM teachers and students
- Provost’s Office
- Research Faculty and graduate students
- Honors College
- Admissions
Library Collaborators

• STEM Librarian, Susan Wainscott
• Health and Life Sciences Librarian, Xan Goodman
• Education Librarian, Samantha Godbey
• Instructional Design Librarian, Frederic Rauber
What We Did

Project divided into two main components:

• Online Resource Guide (STEM and Education Librarians)
• Video (Health Sciences and Instruction Design Librarians)
Online Resource Guide

• STEM and Beyond LibGuide

http://guides.library.unlv.edu/stem
Process

• Decide on tool/format -> LibGuide
• Plan (two leads)
• Execute (subject librarians)
• Revise (whole group, ongoing)
Planning

• Start with outcomes
  – Who is our audience?
  – What do we want them to learn/be able to do?

• Backtrack to decisions about
  – Tone
  – Organization/layout
Organization

• Overall:
  – Followed the breakdown of disciplines plus teacher resources
Organization

- Within each page:
Benefits of LibGuide

• Easy authoring, editing, and collaboration
• Navigation from Library home page already established
Benefits of LibGuide

- Forms
- Usage statistics, including number of hits for links
- Can embed multimedia
- Mobile adaptive, no Flash
Challenges

• Built-in tools restrictive – forms, images
• Balancing needs of partners and users
• Maintaining consistency with multiple authors
Video Production

STEM at UNLV Libraries

http://www.youtube.com/watch?v=wvFnOl13dhM
Paradigm: ID as Collaboration

- Librarians as *Subject Matter Experts*
- Backwards Design
- Application of Social Science methods
Process as Collaboration

- Environmental Scan before beginning
- Dialogue to identify objectives/messages
  - Used their feedback to create a simple message
    - L <3 STEM
- Context determines product
  - Audience, Message, Initial use, Repurposing
- Just Ask!
Tools

• Discussion
• Email
• Whiteboard visualization
• PPT storyboard to support outreach message
• Professional photos
• Software: Adobe Premiere? Camtasia? PPT?
Internal Partnerships for Success

Ask yourself...

• Who has the need?
• Who has the raw material?
• Who has the technical expertise?
• Who has the connections?
Tips and Tricks

• Work backwards
  • Timeline and Objectives

• Identify required skills & team
  • Avoid stalling mid-process

• Communicate often
  • Avoid surprises
  • Keep objectives aligned
Benefits of Collaboration

External Benefits & Internal Benefits

Creative Commons Image: Det Danske Filminstitut (49925)
Overflow

- Gear Up
- STEM and Beyond...
Assessment

Feedback Tools & Follow-up
Tell us what you think!

We want to know if you find this information helpful. Tell us and we'll respond.

(Add / Edit Text)

Was this information helpful?
- Yes
- No
- Don't Know

How useful is this page?
(1 = Not Useful, 5 = Very Useful)
- 1
- 2
- 3
- 4
- 5

Additional comments:

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Thinking Ahead

• STEM and Beyond 2013
• Gear Up
• Other STEM related outreach
• Ongoing development of Products... Infographics
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