Infusing Technology with Pedagogy: An Academic Library’s Partnership with IT and Academic Affairs
Katy O’Neill, Associate Director • Matthew Treskon, Technology Librarian
CNI Fall 2020 Virtual Membership Meeting • November 18, 2020
At LNDL, it takes two…

Independent academic library in Northwest Baltimore serving:
• Loyola University Maryland
• Notre Dame of Maryland University
• 5,819 FY20 Student FTE
• FY20 Acquisitions – 92% electronic
• 125,000 sf building renovated in 2008
Cultivating Innovation and Entrepreneurship Emerges as a Strategic Priority on Campus
2017: Pilot "Pop Up Technology Series"

2018: IDEAspace with Viz Wall & Innovation Fellow Messy Cart

2020: AR / VR Classroom

2016: Gallery and Critical Cafe

2016: Space Plan

2016-19: Tech Plan

2019: Digital Commons

2017: Integrated Help Desk

2017: Loyola "Strategic Doing" Session on Making

2017: Innovation Station Makerspace

2017: Website Redesign

2016: Collaboratory Learning Classroom
Strengthen Campus Partnerships and Evolving the Library's Organization Structure Accelerated the Reframing of the Instruction Program in 2018
Expanding to Support Digital Fluency

Curiosity Fluency
- Design thinking
- Problem-solving
- Web searching

Communication Fluency
- Digital storytelling
- Virtual or Augmented Reality
- Web content development

Creation Fluency
- 3D printing
- Computer programming
- App development

Data Fluency
- Data analytics
- Cloud computing
- Data visualization

Innovation Fluency
- Risk taking
- Metacognition
- Prototyping

Digital Scholarship

- Project life cycle assessment
- Team skills development
- Proactive outreach
Academic Partnerships with Technology

- Hands-On-Tech Pop-Up Classes (Applied & Natural Sciences)
- Innovation Station
  - Recording Studio – launched FY18 (Communications)
  - VR/XR Classroom – launched FY20 (Nursing, History, and more)
  - IDEASpace FY18 /Laser Cutter FY20 (Center for Innovation and Entrepreneurship)
- English Language Institute
- First year experience (Messina, and NDM 1st year)
- Athletics/Advancement
- ALANA (African, Latinx, Asian and Native American) Services
Innovation Station Use

Innovation Station makerspace and educational technology use increased by 174% from 2018-19 to 2019-2020 (despite closure of physical building mid-March).

- Rapid Expansion FY18–FY20
- Covid-19
  - Virtual makerspace
  - Library chat / video chat
  - Video tours
  - Video training
In the Fight Against COVID-19, Some Tools Are 3D-Printed

Many in higher education are putting their 3D printers to work in the fight against the pandemic.

by Adam Stone

Adam Stone writes on technology trends from Annapolis, Md., with a focus on government IT, military and first-responder technologies.

LOYOLA COMMUNITY WORKS TO CREATE RESOURCES DURING PANDEMIC

Posted by Kaitlin Quigley | Apr 15, 2020 | Featured, Highlight, Loyola, News | 0  |  

3D Printers at Loyola Create Face Shields for Local Health Care Professionals

Faculty and staff members at Loyola University Maryland are using 3D printers and laser cutters to create face shields for hospitals in the Baltimore area. The initiative was launched by OpenWorks, a makerspace in
Supporting Student Success Through Creative Partnerships

- Student Clubs
  - Robotics
  - Society of Women Engineers

- Computer/Data Science Capstones
  - Internet of Things
  - Artificial Intelligence

And none of this happens without a creative staff and a culture of assessment
## PEDAGOGICAL ASSESSMENT FRAMEWORK

**LOYOLA NOTRE DAME LIBRARY: LOYOLA PILOT**

### AACU VALUE RUBRIC

<table>
<thead>
<tr>
<th>Determine Information Need</th>
<th>Access Information</th>
<th>Evaluate Information</th>
<th>Use Information Effectively</th>
<th>Access Ethically</th>
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<tr>
<td>Select a source that best meets an information need based on the audience, context, and purpose of various formats</td>
<td>Apply research methods that are appropriate for the need, context, and type of inquiry</td>
<td>Select search tool(s) that are appropriate to the information need</td>
<td>Evaluate an initial result set in order to hone the search strategy</td>
<td>Identify ways of authorship and constraints of various processes of information creation</td>
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### LEARNING OUTCOMES

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<th>Information Fluency</th>
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### LUM DEPARTMENTS

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It’s about continuous outreach and engagement…
Questions

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