2014

Data Driven Collection Development at Mathematical Sciences Library of Purdue University

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Data Driven Collection Development

AT MATHEMATICAL SCIENCES LIBRARY
OF PURDUE UNIVERSITY

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ASEE- ELD
June 16, 2014
Affectionately known as the **Math Modernization Project** is a action plan to modernize the Mathematical Sciences Library of Purdue University Libraries. In accordance with the *2013-2014 Libraries Strategic Plan, Goal Area: Learning*, renovation and rehabilitation of the Math Library will:

- Lower the collection footprint of the Math library space
- Increase the number of collaborative spaces
- Infuse technology into existing collaborative spaces
- Modernize the existing math space by creating a more open floor plan, while increasing the sightline
- Increase the number of computing stations in the Math Library
- Increase the number of available collaborative seating to 24
WHO?

PROJECT STAKEHOLDERS

• Undergraduate Students
• Teaching Assistants/Graduate Students
• Mathematical Sciences Faculty
• Math Library Committee
• Library Faculty
• Library Administration
• Library Staff
WHY?

FACTORS THAT CONTRIBUTED TO THE DECISION TO EVALUATE THE COLLECTION AND SPACE

- Fresh eyes
- Space reallocation
- New strategic priorities
- New collection priorities
- Student-centered focus
- More computers
- Following campus and industry trends
HOW?

BROAD QUESTIONS THAT WERE ASKED BEFORE BEGINNING THE PROJECT

• What do the students and faculty need?
• What do the students and faculty want?
• How is the space currently used?
• How is the collection currently used?
• Is there something that I do not know that I need to know?
• What are the costs, both financially and politically?
HOW?

HOW CAN WE BEST ASSESS THE NEEDS OF THE PROJECT, AND ITS SCOPE?

4 methods/4 data sources

- Users survey data
- Collection management right-sizing project data
- Math Faculty survey data
- Print circulation statistics
**WHAT?**

**DATA SOURCES**

### Users Survey Data

2. Thinking about the services and spaces of the Math Library, select which services and spaces do you use the most often.

<table>
<thead>
<tr>
<th>Service</th>
<th>Response</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>computers</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>printing/paying services</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>study rooms</td>
<td></td>
<td>16</td>
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<tr>
<td>calculators</td>
<td></td>
<td>0</td>
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<tr>
<td>online resources</td>
<td></td>
<td>37</td>
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<tr>
<td>textbooks</td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>journals and monographs</td>
<td></td>
<td>32</td>
</tr>
<tr>
<td>check-out on-site research</td>
<td></td>
<td>13</td>
</tr>
<tr>
<td>assistance</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>single person study cards</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I don’t use any of the Math Library Services</td>
<td></td>
<td></td>
</tr>
<tr>
<td>and Spaces</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Right-Sizing Project Data

- Circulation statistics
- CIC holdings
- Redundancy
- Back files
- Perpetual access
- Optimal?

### Math Library Committee Survey

4-question survey about current and future use

465 → 100 → 224

### Print Usage Statistics

- Loans
- Returns

**collection management**

**variables**
Every journal is the most important journal!
Compromise!
• 52% of the respondents who answered this question stated that “more comfortable/lounge seating” would be enhance their ability to study and do research.

• 34% of those who responded to the question stated that a “charging station for laptops, cell phones, tablets, etc.” would enhance their ability to study and do research.

• 26% said “reservable tutoring room”

• 22% said “more iTap computers” & “group study room with projector and computer access”

• 20% said “presentation practice room with projector and computer access”

AND

• 43% report checking out journals and monographs

Contradictory?
FINDINGS

RIGHTSIZING PROJECT

- Redundancy!
- Math Library had been exempt from campus wide conversation since 2007.
- Journals take up a lot of space, kinda.
- Need 1500 square feet of journal space freed for space project.
  - After “rightsizing” nearly 40 journal titles, we only had freed 300 square feet of space.

So this project continues…
FINDINGS FROM USAGE SURVEY

MATHMATICAL SCIENCES LIBRARY
3rd floor - Mathematical Sciences Building

1. Microform room
2. Circulation desk
3. Card catalogs
4. Journals - unbound
5. New journals display rack
6. New books shelf
7. Microfiche catalogs
8. Photocopers
9. Reference collection
10. Duplicate journals
11. Abstracts/indexes
12. Books
13. Oversize books
14. Technical reports
15. Theses
16. Journals - bound
17. Curriculum room
NEXT STEPS

ANSWERING THE QUESTIONS

• What do the students and faculty **need**?
  *Both traditional and non-traditional services*

• What do the students and faculty **want**?
  *Both traditional and non-traditional services*

• How is the space currently used?
  *Both traditional and non-traditional services*

• How is the collection currently used?
  *Not as traditional as they think*

• Is there something that I do not know that I need to know?
  *I reminded that compromise is a choice.*

• What are the costs, both financially and politically?
  *Yet to be determined.*
NEXT STEPS
ANSWERING THE QUESTIONS/ SUMMER 2014

• June 2014
  Meet with the Math Department to discuss changes to the collection and space
• June 2014
  Complete the Math Department review report, to include changes to the space, as requested by the Chair
• July 2014
  Add computers and data ports for additional workspaces
• Current-August 2014
  We will continue to work with the collection management’s right sizing project, over the next 3-4 months, identifying print journals one-by-one to deselect from the collection.
REPORT FOR MATH FACULTY

- Journal Title
- Print Cost
- Online Cost
- Print Circulation Prior to 2013
- Print Circulation After 2013
- Maintenance Cost
- Cancelled subscription
- How many CIC libraries subscribe
- Cornell print?
- Georgia Tech Print?
- Penn State print?
- UC-Berkeley print?
- UC-Davis print?
THANK YOU!

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