Using LSRS and FLEXspace to Measure Impact and Support Learning Space Master Planning

Sue Chichester, Rebecca Frazee, Melaine Kenyon, Jim Twetten

www.todaysmeet.com/flexlsrs
Introductions

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Session Objectives

• Understand how to access the:
  • Learning Space Rating System (LSRS), and Flexible Learning Environments eXchange (FLEXspace)
• Understand the integrated planning process
• Connect with the user community for these toolsets
Facility and Classroom Planning
Facility and Classroom Planning

TRADITIONAL METHOD
- Preliminary Drawings
- Construction Drawings
- Bid
- Construction

Possible Redesign
- Cost Established

ARCHITECT-LED DESIGN-BUILD METHOD
- Preliminary Drawings
- Value Engineering
- Construction Drawings & Specs
- Construction

At least 20% Savings over Traditional Method
- Cost Established
Facility and Classroom Planning

People:

Architect
Facility Project Manager
Construction Manager
Mechanical Engineer
Electrical Engineer
Civil Engineer
Budget Officer
Registrar
Room Scheduling

Technology Manager
Teaching Center
Faculty
Students
Governance:

Institutional Leadership
Capital Program Committee
Project Review Committee
Officers’ Program Review
Building & Grounds Committee
Faculty Senate
Information Technology Committee
Curriculum Committee

Communicating concepts across a diverse set of people – HELP!
# Facility and Classroom Planning

## Learning Space Rating System (LSRS)

### Common:
- **Language**
- **Prioritization**
- **Scoring**

### Learning Space Rating System | Scoresheet

<table>
<thead>
<tr>
<th>Section</th>
<th>Credit Number</th>
<th>Criterion</th>
<th>Sub-criterion</th>
<th>Maximum Credits</th>
<th>Earned Credits</th>
<th>Scoring Justification Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Section 1. Integration with Campus Context</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICC 1</td>
<td>1</td>
<td>Alignment with Campus Academic Strategy</td>
<td>Provide evidence of alignment</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ICC 2</td>
<td>2</td>
<td>Integration with Learning Space Master Plan</td>
<td>Provide evidence of alignment</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ICC 3</td>
<td>3</td>
<td>Compatibility with Technology Strategic Plan</td>
<td>Provide evidence of alignment</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ICC 4</td>
<td>4</td>
<td>Commitment to Evidence-Based Research and Assessment</td>
<td>Campus assessment plan</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ICC 5</td>
<td>5</td>
<td>Innovation in Integrating Learning Spaces with Campus Context</td>
<td>Provide evidence of initiatives</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

### Section Credit Subtotal | **5**

### Section 2. Planning Process

<table>
<thead>
<tr>
<th>Section</th>
<th>Credit Number</th>
<th>Criterion</th>
<th>Sub-criterion</th>
<th>Maximum Credits</th>
<th>Earned Credits</th>
<th>Scoring Justification Notes</th>
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</thead>
<tbody>
<tr>
<td>PP 1</td>
<td>1</td>
<td>Stakeholder Engagement</td>
<td>Document engagement process</td>
<td>1</td>
<td>1</td>
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<tr>
<td>PP 2</td>
<td>2</td>
<td>Best Practices in Planning and Design</td>
<td>Provide documentation of consultation on best practices</td>
<td>1</td>
<td>1</td>
<td></td>
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<tr>
<td>PP 3</td>
<td>3</td>
<td>Protocols and Prototypes</td>
<td>Provide evidence of testing through pilot projects</td>
<td>1</td>
<td>1</td>
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<tr>
<td>PP 4</td>
<td>4</td>
<td>Learning Space as a Teaching Tool</td>
<td>Development of course or curriculum related to space</td>
<td>1</td>
<td>1</td>
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<tr>
<td>PP 5</td>
<td>5</td>
<td>Evaluation Plan</td>
<td>Evaluate the potential for the space</td>
<td>1</td>
<td>1</td>
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<tr>
<td>PP 6</td>
<td>6</td>
<td>Dissemination of Findings</td>
<td>Make findings available</td>
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<tr>
<td>PP 7</td>
<td>7</td>
<td>Innovation in Planning and Design</td>
<td>Provide evidence of innovation</td>
<td>1</td>
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</tbody>
</table>

### LSRS Credits and Scoresheet
Facility and Classroom Planning

FLEXspace
Flexible Learning Environments eXchange

KICKSTART. INFORM. INSPIRE. CONNECT.
FLEXspace.org
Learn more about sponsorship:
Check out our "Spaces in the Spotlight"!

LOGIN TO FLEXSPACE

SPONSORS & FOUNDERS

RECENT POSTS

Test post with tag
Test post no tag
October '15 Update - FLEXspace continues to grow!
Upgrading to Version 1.2!
FLEXspace Highlighted at EduComm Expo '16
LEARNING SPACE RATING SYSTEM

- Quantitative benchmarking to measure learning space potential
- Alignment of Learning Spaces with Campus Strategic Planning
- Encourages master planning for learning environments
- LSRS and FLEXspace Core Teams working to align and integrate tools wherever possible

FLEXspace
Flexible Learning Environments eXchange

Free to .edu’s, open, global repository of learning spaces

Launched 2012 by SUNY Provost (Learning Environments Task Group)

Today, almost 2000 user accounts, 800+ academic institutions across 35 countries
The Toolkits
Learning Space Rating System (LSRS v1)

- Focused on **formal & active learning** classrooms (v1)

<table>
<thead>
<tr>
<th>Type of Space Being Rated</th>
<th>Check one:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discussion-focused space</td>
<td>0</td>
</tr>
<tr>
<td>Presentation-focused space</td>
<td>0</td>
</tr>
<tr>
<td>Team-based space</td>
<td>0</td>
</tr>
<tr>
<td>Versatile space</td>
<td>0</td>
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</table>

- Points (0/1 credits) on **6 sections**

<table>
<thead>
<tr>
<th>Type of Space</th>
<th>No. of Possible Credits (1)</th>
<th>Weighting of Section (2)</th>
</tr>
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<tbody>
<tr>
<td>ICC</td>
<td>5</td>
<td>10%</td>
</tr>
<tr>
<td>PDP</td>
<td>7</td>
<td>15%</td>
</tr>
<tr>
<td>SO</td>
<td>8</td>
<td>15%</td>
</tr>
<tr>
<td>EQ</td>
<td>8</td>
<td>20%</td>
</tr>
<tr>
<td>LF</td>
<td>14</td>
<td>20%</td>
</tr>
<tr>
<td>TT</td>
<td>9</td>
<td>20%</td>
</tr>
</tbody>
</table>

**Total Credits (5)**: 51 100%
LSRS: Six Sections for Scoring

1. **Integration with Campus Context (5):** Campus Strategy, Learning Space Master Plan, IT Infrastructure Plans, and Evidence Driven

2. **Planning & Design Process (7):** Stakeholder Engagement, Best Practices, Pilots, Connect with Teaching and Learning, Evaluation

3. **Support & Operations (8):** Support, Training, Faculty Development, Sustainability, Flexible Use Options, Scheduling,

4. **Environmental Quality (8):** Daylight, Views, Sightlines, Lighting and Thermal Control, Acoustics,

5. **Layout & Furnishings (14):** Movement, Density, Layout, Movable, Comfortable furniture, Writable Surfaces, Transparency into activities, Adjacent to other learning areas, Future Proofing.

6. **Tools & Technology (9):** Power, Network, Displays, Sound, Controls, Distributed Interactivity, Session Capture.

#EDU16
Vision: A comprehensive, searchable, open access, peer-reviewed learning space repository.

Mission: To build a robust community and integrated planning tool that provides a source of best-practice models and learning environment data to help campuses:

- Save time, money and effort,
- Improve the way they plan, design, document, and promote their physical learning spaces.
- Improve communication and consensus-building among campus stakeholders before involving architects, donors.
FLEXspace: A Large Collaborative Effort
Unique Features

- High resolution images
- Comprehensive details
- Contact information
- Multiple file formats

Rating Systems:
LSRS Score
Peer Review
Your Virtual Fieldtrip

- Search and Browse
- Tag and Save Favorites
- Export and Share
Create Your Own Portfolio

Detail on Three Robust Taxonomies

• Learning & Assessment, Technology, and Facilities & Furnishings
Document, Report, and Showcase Your Work

Upload your projects (before, during, after)

Share internally and externally

DECEMBER 2015 - LEARNING GLASS AT SAN DIEGO STATE

Dr. Matt Anderson and James Frazee of SDSU recently uploaded examples of their “Learning Glass” innovation.
Combining Initiatives

LSRS + FLEXspace = Master Learning Space Design Plan

- LSRS enables data driven decision making
- FLEXspace enables you to:
  - Visualize and explore space attributes
  - Share results and showcase successes
- Together, they help to:
  - Encourage efficiency and “buy in” internally
  - Articulate needs to alumni, donors and external architects, vendors, etc.
Case Study:
SUNY-Geneseo
Case Study: SUNY Geneseo

Public Liberal Arts college in Western NY
Comprehensive Four Year College
SUNY System
5500 students
183 teaching spaces
Case Study: SUNY Geneseo

A Perfect Storm

• Dissatisfaction with classroom planning process in recent renovation
• Provost’s ear
• Stalled facilities master plan
• Applying for a Steelecase grant
Case Study: SUNY Geneseo

Faculty Survey

1. Classroom Space Recommendation Location?
2. Type of classroom desired:
   1. Active Learning Classroom 1, featuring Node seating for multi-modal learning
   2. Active Learning Classroom 2, with tiered Verb tables designed for conversation and collaboration
   3. Active Learning Classroom 3, a blended classroom that supports digital and face-to-face learning
   4. Active Learning Classroom 4, a "makerspace" environment focused on hands-on problem-solving, ideation and experimentation

3. Describe the pedagogy you hope to achieve in an Active Learning Space.
4. Would you be interested in participating in future Learning Space discussions?

17 Spaces Nominated
Case Study: SUNY Geneseo

Welles 134

Circa 1970
Welles 134 Score Summary

<table>
<thead>
<tr>
<th>Section</th>
<th>No. of Possible Credits (1)</th>
<th>Weighting of Section (2)</th>
<th>Earned Credits (calculated from scoresheet tab)</th>
<th>Percentage Achieved (3)</th>
<th>Section Score (4)</th>
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<tbody>
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<td>ICC Integration with Campus Context</td>
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<td>5</td>
<td>1.00</td>
<td>10.00</td>
</tr>
<tr>
<td>PDP Planning &amp; Design Process</td>
<td>7</td>
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<td>0</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>SO Support &amp; Operations</td>
<td>8</td>
<td>15%</td>
<td>8</td>
<td>1.00</td>
<td>15.00</td>
</tr>
<tr>
<td>EQ Environmental Quality</td>
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<td>20%</td>
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<td>0.75</td>
<td>15.00</td>
</tr>
<tr>
<td>LF Layout &amp; Furnishings</td>
<td>14</td>
<td>20%</td>
<td>7</td>
<td>0.50</td>
<td>10.00</td>
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<tr>
<td>TT Technology &amp; Tools</td>
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<td>20%</td>
<td>4</td>
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<td>8.89</td>
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<td><strong>Total Credits</strong></td>
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<td><strong>100%</strong></td>
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<td></td>
<td><strong>59.00</strong></td>
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</table>
Case Study: SUNY Geneseo

South Hall 235

New Building
Installation 1996
## South Hall 235 Score Summary

<table>
<thead>
<tr>
<th>Credit Category</th>
<th>No. of Possible Credits (1)</th>
<th>Weighting of Section (2)</th>
<th>Earned Credits (calculated from scoresheet tab)</th>
<th>Percentage Achieved (3)</th>
<th>Section Score (4)</th>
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</thead>
<tbody>
<tr>
<td>Integration with Campus Context</td>
<td>5</td>
<td>10%</td>
<td>5</td>
<td>1.00</td>
<td>10.00</td>
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<tr>
<td>Planning &amp; Design Process</td>
<td>7</td>
<td>15%</td>
<td>2</td>
<td>0.29</td>
<td>4.29</td>
</tr>
<tr>
<td>Support &amp; Operations</td>
<td>8</td>
<td>15%</td>
<td>8</td>
<td>1.00</td>
<td>15.00</td>
</tr>
<tr>
<td>Environmental Quality</td>
<td>8</td>
<td>20%</td>
<td>6</td>
<td>0.75</td>
<td>15.00</td>
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<tr>
<td>Layout &amp; Furnishings</td>
<td>14</td>
<td>20%</td>
<td>5</td>
<td>0.36</td>
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<tr>
<td>Technology &amp; Tools</td>
<td>9</td>
<td>20%</td>
<td>5</td>
<td>0.56</td>
<td>11.11</td>
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</table>

| Total Credits (5)             | 51                          | 100%                     |                                               |                        | 63.00            |
Case Study: SUNY-Geneseo

Leveraging the Toolkits

**LSRS**
Rating all our rooms
Integrate into planning

**FLEXspace**
Idea generator and conversation starter
Showing off our best work
[flexspace.org](http://flexspace.org)
Case Study: SUNY Geneseo

Bailey 101-102

Newly Renovated 2014
<table>
<thead>
<tr>
<th>Credit</th>
<th>Description</th>
<th>No. of Possible Credits (1)</th>
<th>Weighting of Section (2)</th>
<th>Earned Credits (calculated from scoresheet tab)</th>
<th>Percentage Achieved (3)</th>
<th>Section Score (4)</th>
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</thead>
<tbody>
<tr>
<td>ICC</td>
<td>Integration with Campus Context</td>
<td>5</td>
<td>10%</td>
<td>5</td>
<td>1.00</td>
<td>10.00</td>
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<td>PDP</td>
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<td>2</td>
<td>0.29</td>
<td>4.29</td>
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<tr>
<td>SO</td>
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<td>15%</td>
<td>8</td>
<td>1.00</td>
<td>15.00</td>
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<tr>
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<td>20%</td>
<td>6</td>
<td>0.67</td>
<td>13.33</td>
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</tbody>
</table>

| Total Credits (5) | 51                          | 100%                      | 77.00                |
Case Study: SUNY Geneseo

Challenges

Matching Faculty Pedagogy to Learning Spaces
Right-Sizing and Scheduling
Seating Density

Use New Planning Process
Data Driven Decisions
Prioritizing with Data
Justifying need

Politics/Culture
Case Study:
SUNY Buffalo State
Case Study: SUNY Buffalo State

Public 4 year comprehensive college
9,500 undergraduate students
103 generally scheduled classrooms
200+ department owned spaces
Case Study: SUNY Buffalo State

**LSRS – Measure Impact**
- Determine which classrooms to upgrade technology
- Assess staffing levels

**FLEXspace – Support Space Master Planning**
- Share attributes of technology integration
Case Study: SUNY Buffalo State

Determine which spaces to upgrade the technology
## Case Study: SUNY Buffalo State

<table>
<thead>
<tr>
<th>Support and Operations</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Support</strong></td>
<td>Provide ability to contact support personnel OR monitor remotely OR provide documentation in the space or online.</td>
</tr>
<tr>
<td><strong>Space Orientation and Training</strong></td>
<td>Provide regularly scheduled user orientations OR online tutorials</td>
</tr>
<tr>
<td><strong>Training of Support Team</strong></td>
<td>Create internal training program</td>
</tr>
<tr>
<td><strong>Faculty Development</strong></td>
<td>Education opportunities for faculty OR online resources OR instructional</td>
</tr>
<tr>
<td><strong>Sustainability of Operations</strong></td>
<td>Create a resource management plan AND a process to update it</td>
</tr>
<tr>
<td><strong>Diverse patterns of use</strong></td>
<td>65% Utilization in 45 hours/week AND user access to space at off hours</td>
</tr>
<tr>
<td><strong>Scheduling Systems</strong></td>
<td>Scheduling system to align space with needs</td>
</tr>
<tr>
<td><strong>Innovation in Support and Operations</strong></td>
<td>Provide evidence of innovation</td>
</tr>
</tbody>
</table>
Case Study: SUNY Buffalo State
Case Study: Buffalo State

How many of you have learning spaces that just don’t “measure up”?
- Old furniture
- Outdated / analog technology
- Unappealing

FLEXSpace
- Ideas
- Contributions
Case Study: Iowa State University

Concurrent local studies
- Architectural review of all classroom spaces
- Learning Ecosystem Review

LSRS aided prioritization

FLEXspace aided brainstorming
Case Study: Iowa State

Map out your process and decision points
Where to find resources

- **Learning Space Rating System**
  - Download a description, and the *scoresheet* at [http://www.educause.edu/eli/initiatives/learning-space-rating-system](http://www.educause.edu/eli/initiatives/learning-space-rating-system)

- **FLEXspace.org** -- @FLEXspaceorg
  - REQUEST a FLEXspace Account!
  - SHARE & showcase your spaces! We can help 😊

- Learn more
  - NMC 5-minutes of Fame - [https://youtu.be/PIHUorigwW8](https://youtu.be/PIHUorigwW8)
  - Campus Tech article [https://campustechnology.com/articles/2016/05/17/flexspace-sharing-the-best-of-learning-space-design.aspx](https://campustechnology.com/articles/2016/05/17/flexspace-sharing-the-best-of-learning-space-design.aspx)
  - EDUCAUSE “7 Things You Should know…” [https://library.educause.edu/resources/2016/4/7-things-you-should-know-about-flexspace](https://library.educause.edu/resources/2016/4/7-things-you-should-know-about-flexspace)
Help Us Improve and Grow

Thank you for participating in today’s session.

We’re very interested in your feedback. Please take a minute to fill out the session evaluation found within the conference mobile app, or the online agenda.