Lactation Accommodation at SIU

Laura Morthland, Chad Schwartz, and Deborah Barnett | Southern Illinois University





community need

service learning pedagogy

professional studio model

> hands on learning

discussion

abstract

This presentation outlines a project undertaken by a multidisciplinary team of staff, faculty, and students at Southern Illinois University to provide a dedicated space for nursing mothers in the campus' Morris Library.

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design team

faculty

Chad Schwartz, architecture Jenny Huang, construction management Laura Morthland, Interior design

students

Shelby Orr, architecture Caroline Simmons, architecture Andrew Estabrook, construction management Damian Smith, construction management Sarah Barth, interior design Zoey Koester, interior design

clients

Deborah Barnett, non traditional student services Susan Tulis, morris library

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need | Non-Traditional Student Services (NTSS) serves SIU Carbondale's adult student population through guidance, support, and resource referral to enhance educational experiences

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healthy people 2020

- high-quality, longer lives free of preventable disease, disability, injury, and premature death
- health equity, eliminate disparities, and improve the health of all groups
- social and physical environments that promote good health for all
- quality of life, healthy development, and healthy behaviors across all life stages

Center for Disease Control http://www.cdc.gov/nchs/healthy_people/hp2020.htm

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need | mothers are the largest growing segment of the US labor force; approximately 70% of employed mothers work full time; 1/3 return to work within 3 months of giving birth, 2/3 return within 6 months (CDC, support for breastfeeding in the workplace)

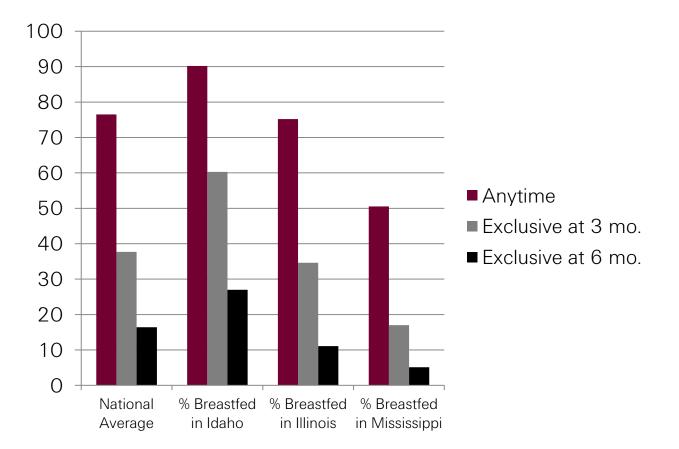
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CDC breastfeeding report card, 2013

IIIU

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southern illinois university

- minimal support and resources available to nursing students and employees at SIUC
- no designated areas for lactation on the campus for nursing students; minimal for employees
- Jackson County WIC office reports many complaints from nursing student mothers about lack of areas for pumping on campus

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need | failing to provide the needed resources sends the message that motherhood is incompatible with educational or professional success

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provisions for employees

"...a place, other than a bathroom, that is shielded form view and free from intrusion from coworkers and the public, which may be used by an employee to express breast milk."

U.S. Department of Labor

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need | SIU students have expressed that accommodations in centrally located places on campus such as the library, the student center and quigley hall would be ideal (image source: http://itday.siu.edu/_common/images/location-morris.jpg)

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service learning

Service can be defined as "contributions in and to the community that improve the quality of life for an individual, group, neighborhood, or for the entire community."

> Service-Learning Course Design Workbook Howard, J. (2001). OCSL Press.

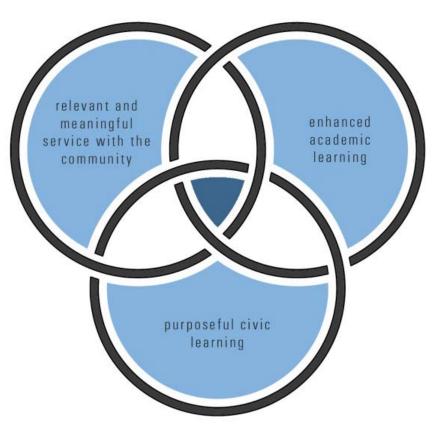
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pedagogy | academic service-learning requires that the service-learning component is a primary source of learning and education, not a secondary exercise

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course objectives

architecture and design

construction documentation communal work environment principles, materials, means & methods of practice

• experiential learning

extract meaning & understanding from client interactions apply design & technical information in a real world situation

• community learning

roles of the client, community, regulatory bodies & design team

• civic learning

develop & apply professional skills for the betterment of the regional community

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pedagogy | every member of the class must take an active role to ensure quality; professionalism, preparation, time management and self motivation are key

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"Students are supposedly being prepared for practice, but they are usually led to think of themselves as independent designers, which is a rare condition in real life...The larger, team-oriented form of practice is often poorly understood and sometimes denigrated, although it is now the dominant and most vital structure in the profession"

> Observations for Young Architects Pelli, C. (1999). Monacelli Press.

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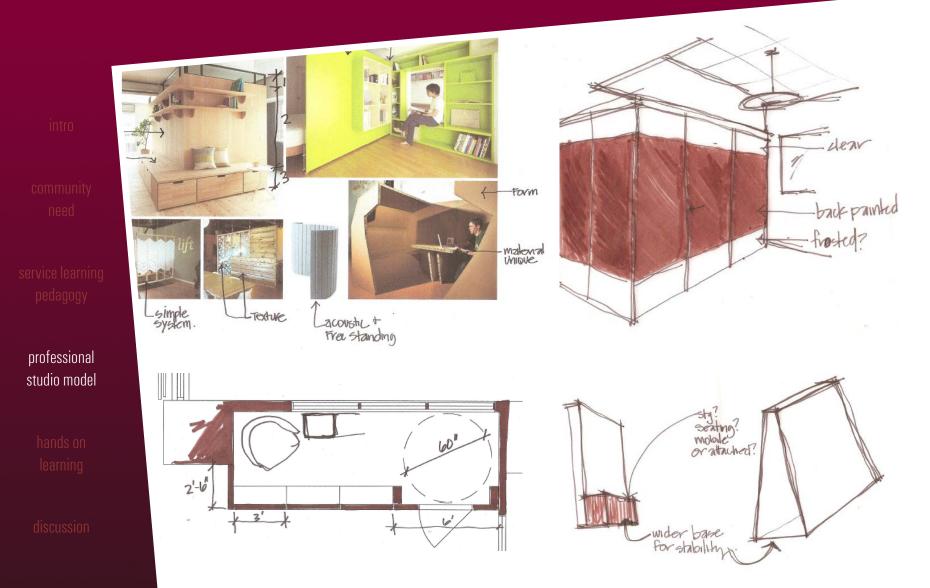
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professional | early design ideas for the Mother's Room were presented by the students; faculty participated as team members but the focus is on students as co-leaders of the process



professional | early design ideas were presented by all team members in loose format for group brainstorming and critique

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professional | leading client presentations allowed students to apply skill and discipline knowledge in service to the campus and regional community

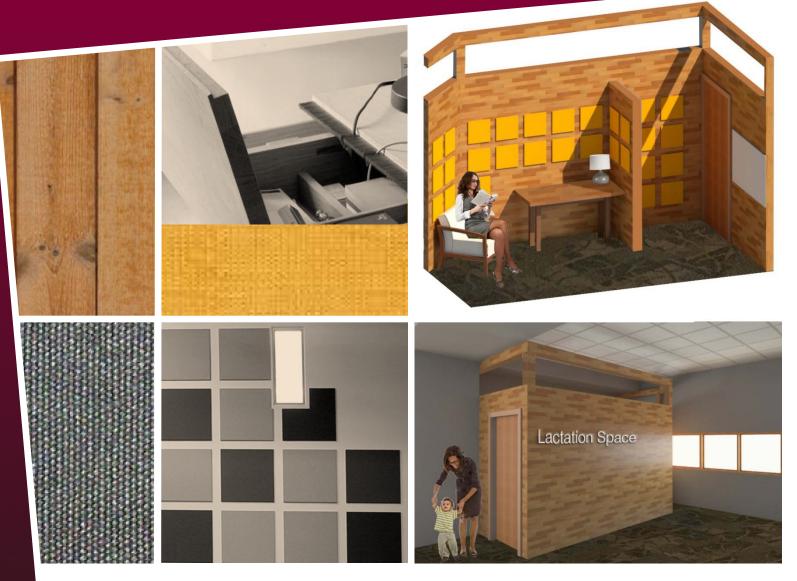
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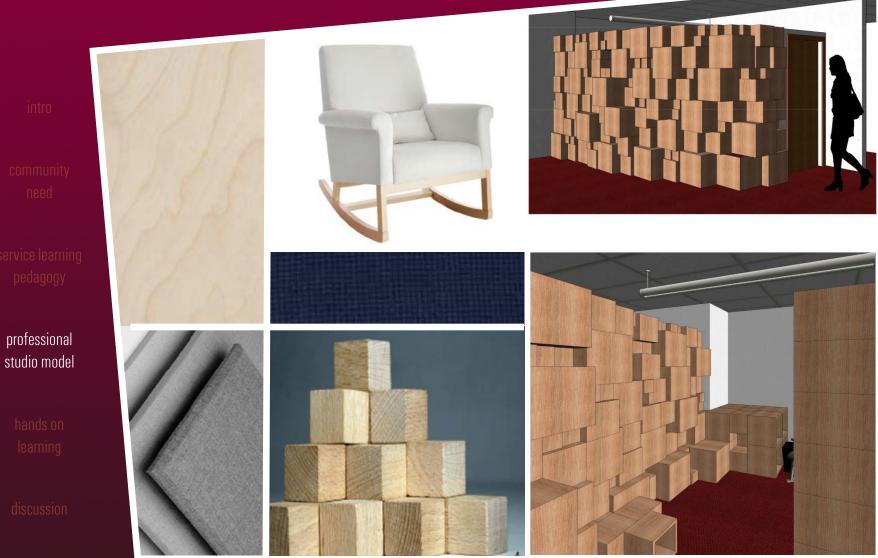
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professional | multiple schematic ideas were developed by student teams with faculty providing input; teams were multidisciplinary to maximize skills and knowledge



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professional | incorporation of test panels and signage mock ups were brought into the process early on to enable the design details and fabrication methods to develop in tandem

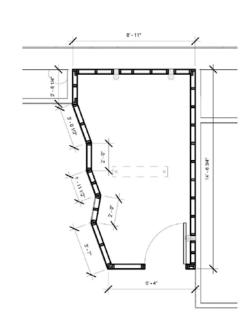
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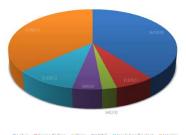
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Design 3 Total Cost: \$17,246.73



Labor Frame/Siding Door HVAC Insulation/Sealant Interior

5 80000 \$17,246.73



professional | refined design options were again lead by student teams; however, groupings were based on discipline (arc, cm, id) for greater application of skill

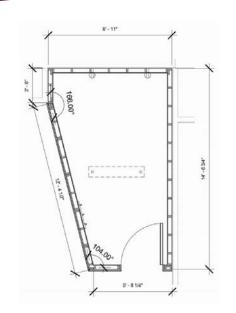
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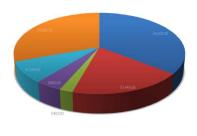
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Design 2 Total Cost: \$19,098.54



Labor Frame/Siding Door HVAC Insulation/Sealant Interior

\$ 800,00 \$ 19,098.54

| Mother's Room | |
|------------------|--|
| | |

professional | refined design options were again lead by student teams; however, groupings were based on discipline (arc, cm, id) for greater application of skill

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professional | key campus community members, such as university architects, union carpenters, electricians, etc. were invited into the process early to ensure full coordination of the design and construction

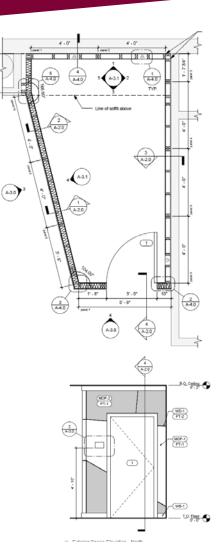
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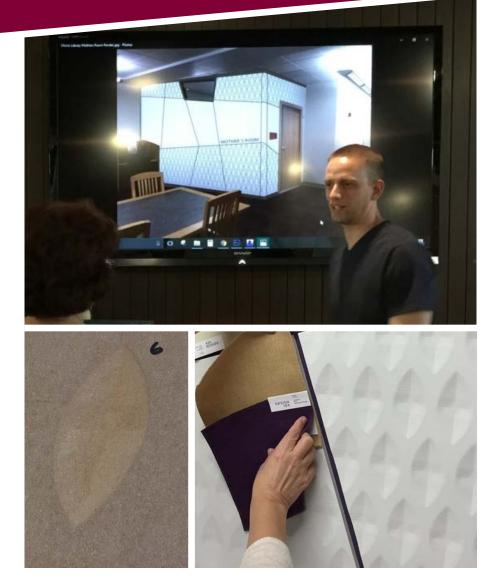
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professional | digital explorations, materiality, construction detailing; all are all informing the process and helping to refine the level of detail within the construction documents

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"In a 2013 report entitled *Architectural Education and Accreditation*, the Association of Collegiate Schools of Architecture [ACSA] recommended that the levels of engagement...should be raised and that students should be immersed in a learning environment that is responsive to the diverse and constantly changing...contemporary construction industry"

> ACSA. (2013). Accreditation Review Conference. as cited in: Building a Social Framework Schwartz, C., Morthland, L. & McDonald S., (2014). Routledge.

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hands on learning | material type, fabrication method and finish level were all tested and strengths/weakness assessed by both faculty and students

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hands on learning | early on in the process the typical method of drywall construction was rejected due to the skill level needed to finish that construction type properly; instead the use of digital fabrication tools became a design focus

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hands on learning | full scale mock up construction revealed that framing technique and application of acoustic underlayment will be critical to achieving high final finish levels



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hands on learning | students and faculty work along side one another in shared work activities and collegial mentoring experiences vs. the traditional academic model

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hands on learning | students work with one another to transfer knowledge and skill and to expand awareness of the connection between design details and construction

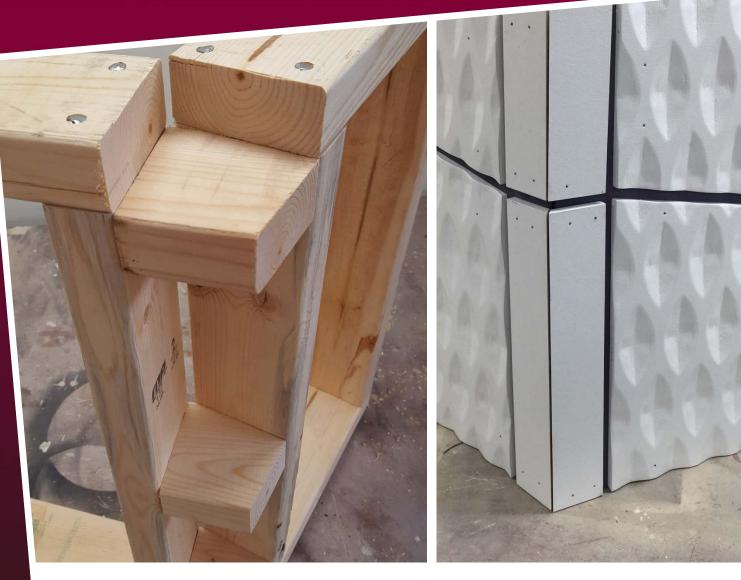
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hands on learning | the design/build model is based on the connection of ideas, codes, client needs and wants, materiality, budget, construction techniques and design manufacturing

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thank you

Geory Kurtzhals Sustainability Coordinator SIU Sustainability

Deborah Barnett Programs Coordinator Non-Traditional Student Services

Brenda Green Instructor | Certified Lactation Consultant Food and Nutrition

Marie Funk Graduate Student | Dietetic Intern Food and Nutrition

> Susan Tulis Associate Dean Morris Library

Carol LePere Architect Physical Plant Engineering Services

Mark Popejoy Carpenter Forman Physical Plant Engineering Services

Mike Maugan Electrical Engineer Physical Plant Engineering Services

Shawn Moore Mechanical Engineer Physical Plant Engineering Services

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