

Technology Fee Full Proposal

Title: DCP Global Learning Environments

Proposer: Peggy Carr, Associate Dean
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Sponsoring Organization: College of Design, Construction and Planning

Purpose and Specific Objectives:

The college of Design, Construction and Planning at the University of Florida represents a rich mix of design disciplines. With nationally recognized programs in architecture, building construction, interior design, landscape architecture, and urban planning as well as trans-departmental programs in historic preservation and sustainability the potential for exciting collaborations exists. We are driven to foster local, national, and global connections that bring contemporary design issues into the hands of our students and we are dedicated to enhancing their ability to solve these problems creatively. It is in this spirit that we submit this proposal.

Our college thrives on its interdisciplinary studio culture, where students learn to design in collaborative problem focused environments. These work environments must effectively support these processes using both physical and digital media. In order to integrate digital media in our workspaces we have set our sights on two primary goals:

1. To use digital technology and learning spaces to enhance creative problem solving for individual students, student teams, and complete classes, and
2. To foster collaboration and team-based problem solving with students, faculty and practitioners from around the globe.

Goal 1 has been partially addressed through our collaboration with Academic Technology that introduced digital sketch tablets into a teaching laboratory heavily used by students from our design disciplines and through the introduction of these same digital sketch tablets into our interior design and landscape architecture studios. To further Goal 1, Interior Design Faculty Member Jason MeNeely submitted a proposal to the Steelcase Corporation for the creation of a collaborative classroom. We have just received word that Steelcase will be donating Media:scape learning laboratory furniture and accessories worth more than \$100,000. The furniture will be used in ARC 411, a space that currently serves as a shared critique, pin-up, and presentation space to support studio courses across the college. We will transform this room into the collaborative classroom that supports team-based problem solving using physical as well as digital media. We also want this room to function as a platform for online collaboration, serving as a bridge between resident and globally distributed student, faculty and professional collaborators. We have included a schematic floor plan, elevations, and a switching plan proposed for this space. The completion the ARC 411 conversion will provide a state of the art facility that will help us substantially address Goal 1.



Media:scape Learning Laboratory Furniture in ARC 411

Goal 2, fostering global collaboration, will be partially addressed by the ARC 411 conversion, but we also wish to modify three additional spaces to address this goal: ARC 331F a space currently used by all academic units in the College for seminars, student presentations and juries; FAC 208, a space now used for overflow studio space by architecture; and a space yet to be determined in Rinker Hall. With the enhancement of these three spaces, collaborative opportunities will be available across all academic units in our College and will be shared with the greater University community.

Here are two specific examples to demonstrate the application of the proposed technology:

Architecture Professor Nancy Clark taught two studio courses this year with practitioners from beyond Gainesville. Fall semester she engaged professionals from the firm of Manuelle Gatraud Architects in Paris and in Spring semester from the firm of Tod Williams + Billie Tsien Architects in New York City. The professionals regularly held interactive discussions about the studio projects and the work of individual students via Skype. The quality of the projector/screen, microphones, speakers, and cameras available in DCP were marginal. It was particularly difficult for the outside jurors to review student work, due to the lack of high resolution cameras. The quality of the experience for all involved would have been significantly enhanced with improved technologies.

Spring Semester 2011 the College of Design, Construction initiated a new Master of Science in Sustainable Design. The course delivery is a hybrid of live and on line lectures and currently includes students in Washington, D.C., Jacksonville, FL, Gainesville, FL and Singapore, Singapore. As with the above example, the quality of the technology limited the quality of the student experience.

Impact/Benefit:

Through judicious scheduling of the four spaces described above, the following impacts and benefits will be realized.

1. Improved technology to support the interchange of ideas between students, faculty and professionals will enhance learning.
2. The proposed improvements will serve our programs in architecture, building construction, historic preservation, interior design, landscape architecture, sustainability and urban and regional planning (approximately 1400 students and 70 faculty). When not in use by faculty and students of these programs, facilities and equipment can be reserved for use by other academic units from across campus.
3. These seven academic programs currently have Florida/US/International programs in the following locations that will be enhanced by these capabilities:
 - St. Augustine, FL
 - Orlando, FL
 - Nantucket, MA
 - Lund, Sweden
 - Vicenza, Italy
 - Curitiba, Brazil
 - Mumbai, India
 - Paris, France
 - Hong Kong, China
 - Wuhan, China
 - Chang Ching, China
 - Detmold, Germany
 - Singapore, Singapore
 - Bali, Indonesia
 - Guadalajara, Mexico
4. Graduates of our programs are moving into top design and construction firms across the nation. They will be heavily advantaged if they take with them knowledge of state-of-the-art interactive visual presentation technologies.
5. The collaborative classroom proposed for ARC 411 will be used by Professor McNeely and other DCP faculty as part of their research agenda, examining the results of access to collaborative learning spaces.
6. All proposed improvements will use existing network capabilities within the Architecture Building supported by our own IT staff and the larger UF IT network.
7. All proposed improvements will be accessible as required by the Americans with Disabilities Act.

Sustainability:

DCP is already taking significant advantage of the opportunity to charge undergraduate students fees in order to provide them with equipment to support learning. Examples include digital tablets, scanners, plotters, 11x17 printers, LCD projectors, digital laser cutters, and 3dimensional plotters and scanners. Long term support and upgrades to the technologies covered by this proposal will be funded through the assessment of equipment fees for both undergraduate and graduate students.

Timeline:

ARC 411

Improvements to ARC 411 will be completed Summer 2011 so the new technologies may be available in Fall 2011.

ARC 331F

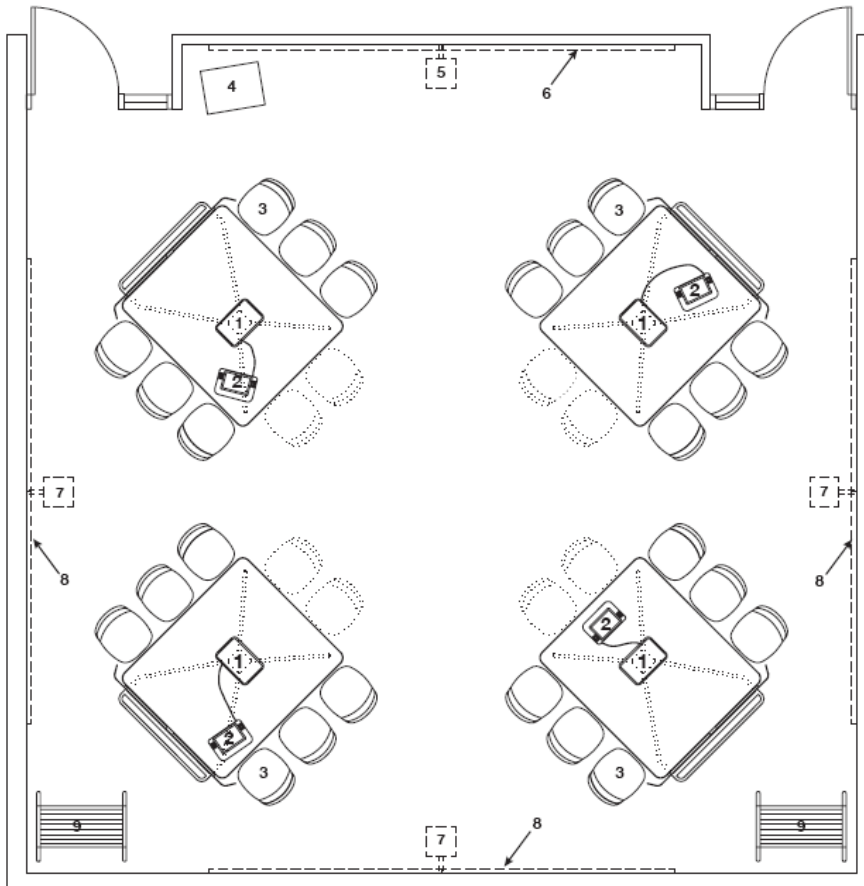
Improvements to ARC 331F will be completed Summer 2011 so the new technologies may be available in Fall 2011.

FAC 208

Improvements to FAC 208 will be completed Summer/Fall 2011 so the new technologies may be available in Spring 2012.

Rinker Hall

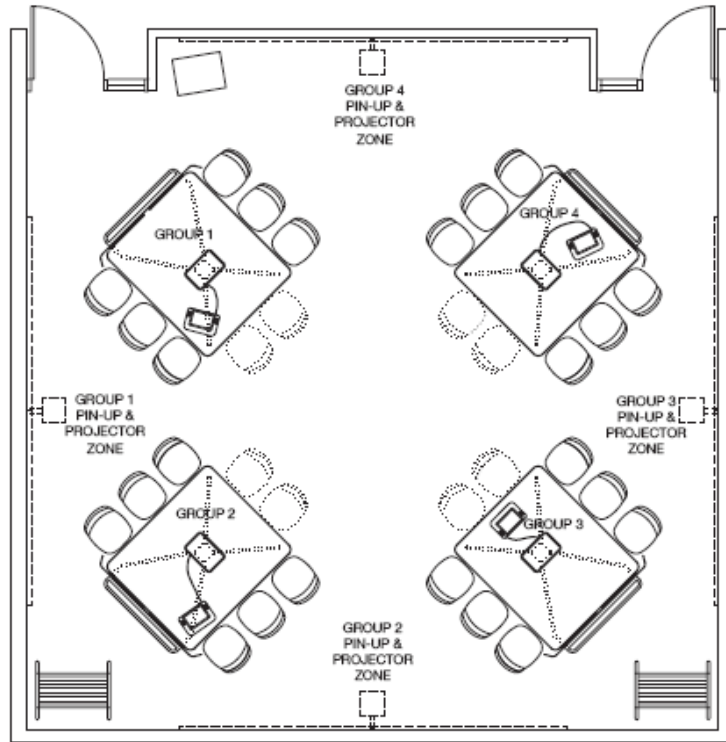
Improvements to the space in Rinker Hall will be completed Summer/Fall 2011 so the new technologies may be available in Spring 2012.



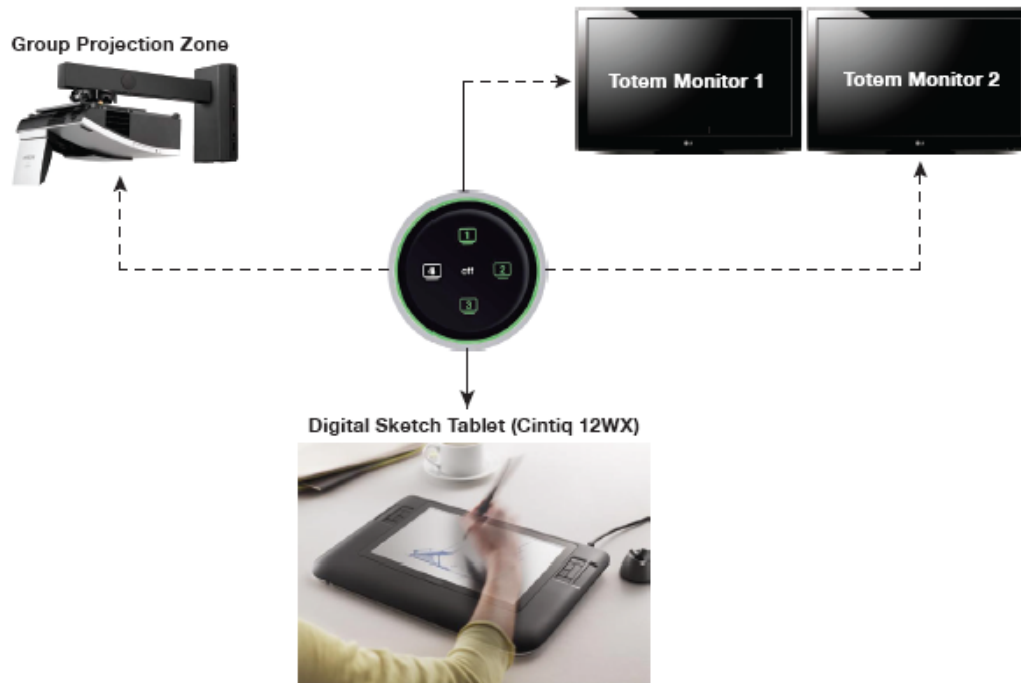
PROPOSED LAYOUT FOR ROOM 411 (SCALE: 1/4"=1'-0")

1. MEDIA:SCAPE MDR7260T WITH DUAL MONITOR TOTEM (QTY. 4)
2. DIGITAL SKETCH TABLE: WACOM CINTIQ 12WX (QTY. 4)
3. COBI CHAIR (QTY. 32)
4. ROOM SWITCHING CONTROL WITH TEACHING DESKTOP COMPUTER AND LAPTOP DOCKING
5. ENO BOARD WITH ULTRA SHORT THROW PROJECTOR (SEE ELEVATION A)
6. 16' TACKABLE SURFACES AND HUDDLE BOARD RAIL (SEE ELEVATION A)
7. 96" X 48" WHITE BOARD WITH ULTRA SHORT THROW PROJECTOR (SEE ELEVATION B)
8. 16' TACKABLE SURFACES AND HUDDLE BOARD RAIL (SEE ELEVATION B)
9. HUDDLE BOARDS AND CART

Steelcase technologies for ARC 411 to support switching between monitors on the Media:scape Learning Laboratory work surfaces.



TEAM LEVEL SWITCHING



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BUDGET

ARC 411

- 8 - 32" LCD Monitors (8 x \$1,000)
- 4 - 3M Super Close Projector and with wall mount and speakers (4 x \$2,200)
- 4 – high definition web cameras (4 x \$200)
- 4 conferencing microphones (4 x \$100)
- Room matrix switcher (\$2,500)
- Cisco Webex web meeting interface to support digital sketch collaborations (\$5,000)
- Movable commuter podium (to be donated by Steelcase - \$2,000 value)
- 4 sets of marker boards 7' x 16' each (to be donated by Steelcase - \$12,000)
- 1 - Polyvision Eno Whiteboards or equivalent (to be donated by Steelcase - \$3,000 value)
- 4 Media:scape digital collaborative work stations (to be donated by Steelcase - \$80,000 value)
- 32 chairs (to be donated by Steelcase - \$16,000 value)

ARC 3331F, FAC 208 and Rinker Hall Room:

- Podium with computer and monitor (\$3,000)
- Polyvision Eno Whiteboard or equivalent (\$3,000) with 3M Super Close Projector with wall mount and speakers (\$2,200)
- Polycom HDX 6004 Video conferencing kit (\$5,600)

ARC 411	\$25,500
ARC 331F	\$13,800
FAC 208	\$13,800
Rinker Hall	\$13,800
Total	\$66,900