Lafferre Hall - Renovate 1935/44

Presentation to College of Engineering Faculty, Students, & Staff
December 2014

The information contained here was the basis for the design phase of this project.
Programmatic Charge/Project Scope

A. 1935/1944 Renovation & Repair
B. East Entry – Courtyard
C. 1982 Renovation
D. Auditorium E1419 Renovation
E. 1958 Air Handler Unit Repair
Correct Circulation and Access Issues
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Accessible Entrance from Quadrangle
Fix/Improve Building Envelope
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1935-1934 Extensive Renovation
Fix/Improve Building Envelope (Re-Roofing)
Flexible/Adaptable Efficient Infrastructure

**Power:**
- Adequate power distribution is existing and will be reused.
- Reroute feeders for a few existing panels to remain.
- Dedicated floor distribution to serve entire renovated floor.
- Dedicated panels to serve each renovated lab space.

**Fire Alarm:**
- Relocate Fire alarm addressable device cards.
- Existing Building additions will have their own addressable device card points.
- Provide Home run wiring from device cards to main fire alarm panel.
- Addressable fire alarm system to be provided within 1935 renovation.
Flexible/Adaptable Efficient Infrastructure

**Telecommunications:**
- Reroute main fiber to building’s main telecommunications room.
- Dedicated telecom closets to serve the renovated 1935 building only.
- Add dedicated telecom closets in 1893 addition to serve that addition.
- Telecom jacks in 1893 addition fed from 1935 telecom closets to be rerouted.
- Telecom jacks in 2007 addition fed from 1935 telecom closets to be rerouted.

**CCTV:**
- Relocate the existing CCTV monitoring station.
Flexible/Collaborative Learning and Research Environments

Photos of Existing Spaces to be renovated
Flexible/Collaborative Learning and Research Environments

Thought starters
Experiential Teaching and Learning Labs

Thought Starters
Spaces that Support Interdisciplinary Activities
Planning Process – modular labs
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Planning Process
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2nd FLOOR
1933/44 AREA RENOVATION AREA = 26,800 SF
EXISTING EFFICIENCY = 43%
POST RENOVATION AREA = 29,400 SF

NET ASSIGNABLE AREA
STEM CLASS LABS + SUPPORT = 2,380 SF
STEM RESEARCH LABS + SUPPORT = 9,130 SF
STEM CORE FACILITIES = 410 SF
ASSEMBLY/MEETING SPACE = 1,300 SF
COLLABORATIVE SPACE = 2,050 SF
WORK SPACES = 1,740 SF
SUPPORT SPACES = 160 SF
TOTAL = 18,010 SF
EFFICIENCY = 68%

LEGEND
- STEM CLASS LABS + SUPPORT
- STEM RESEARCH LABS + SUPPORT
- STEM CORE FACILITIES
- ASSEMBLY/MEETING SPACE
- COLLABORATIVE SPACE
- WORK SPACES
- SUPPORT SPACES
- BUILDING SERVICES
- FUTURE EXPANSION - SHELL SPACE
- TRAVEL PATH
- VISIBLE CONNECTION
Planning Process
Space Utilization - existing

- STEM Research Laboratories: 37%
- STEM Class Laboratories: 20%
- Work Spaces: 30%
- Support Spaces: 0%
- Collaborative Spaces: 4%
- Assembly / Meeting Spaces: 3%
- Classrooms / Teaching: 3%
- STEM Core Facilities: 3%
Space Utilization - Potential

- **STEM Research Laboratories**: 35%
- **STEM Class Laboratories**: 22%
- **Work Spaces**: 13%
- **Collaborative Spaces**: 13%
- **Support Spaces**: 2%
- **STEM Core Facilities**: 10%
- **Assembly / Meeting Spaces**: 5%