

Meeting Minutes



Architecture Engineering Planning Interiors

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Meeting Date November 1, 2016
To Brad Muehling
From John Badami
Location UNL – 114 Othmer Hall
Project UNL- College of Engineering Programming
Project No. 10-15209-21
Attendees **DLR Group:** John Badami, Ken West, Mark Brim
RFD: Terry Brown
UNL FPC: Brad Muehling
UNL COE: Wei Qiao, John Boye, Jerry Hudgins
Purpose Department Workshop #1 Electrical & Computer Engineering

Action Items

Minutes

Confirmed Spaces Currently Occupied

Reviewed teaching vs. research labs

Lab Spaces

We are looking to lay infrastructure logic to the building.

Exhausting lab vs non lab space

Faculty is open to their future location of the research labs in the building no matter where it is.

They are currently exhaust limited in Scott

RFD reviewed adaptable/flexible lab design.

UNL has a lot of laser systems in both M&E labs. Laser safety needs to be figured in.

UNL does not have enough floor drains in spaces.

Capstone projects are general electronics type of projects.

UNL needs high voltage labs. They are 480, 100 amps for research.

They have a wind tunnel in this area also.

They are set up for 4 kilovolts.

High voltage is a specialized lab.

What do you want?

They have a clean room space now, may or may not need.

Clean assembly clean room is an inexpensive clean room alternative. It does not connect with the existing mechanical system. They like this idea.

Acid hood will be needed, just a couple.

UNL standard is all ducts for fume hoods will be stainless steel.

They need a centralized gas tank closet for flammables and toxics to keep these out of the labs as much as possible. Management is a concern.

They need a cage for empty cylinders to be picked up on the dock are later, outside. To service everybody.

It would be nice if information services was moved out for the extra floor space.

Hoods would be an HF hood, sulfuric.
 Chemical control zones are the biggest concern you have as you go up floor by floor in the building. We rarely do anything more than 4 stories of lab building today.
 UNL really likes services overhead to get power in the middle of the room.
 Food, coffee and Wifi and you are good to go.

Centrally piped services

Instrument grade Compressed air
 Hot and Cold Water
 Hand Washing sinks
 Drains
 Local vacuum pumps
 Local pure water

Offices

Collocate the teaching labs would be great. On first floor would be ideal. And windows to see people.
 On the same floor as the electronic shops
 Research labs is by function.
 First floor is the show piece, upstairs less so.
 Teaching and shop collocated.
 Top floor of NE Hall would be good for office space just because they need space.
 Growth – the look to have 5 to 10 more faculty in the next few years. Double that in 10 years
 It would be great if faculty and students could hang out in the same areas.
 They currently have 30 some faculty.
 Undergrad labs they control and they have 3 of those
 All teaching labs should be in the same place

Classrooms

They need bigger classrooms from 70 to 100 student range.
 With workspace and can do lab experiments.
 Need tables, no desks and power everywhere.
 Average class size is 35 students.
 Small groups of 5 or 6 in conference rooms.
 All rooms need video conferencing capabilities.
 They have a mandate to deliver the same classes between Lincoln and Omaha.
 Need lounge space for students.

We need innovative teaching rooms for lecture and labs needs to be integrated.
 Look at lecture and lab space are next to each other and visibility between lab space lecture space
 Maker space? Iowa State has a good maker space (ideation space). Next to a student lounge might be good.
 Illinois ECE department has built a new building they would like to visit.
 Design, fabrication, project and display.
 Car project is a great way to excite students and do projects after

hours, and windows to see the activity inside the labs.

Faculty like great lab space and teaching space.

Coffee Shop would be great, study space/work space

Demonstration space.

Things are way to spread out around the college. If we could group things together. Clustering of like lab spaces.

E-week used to be a big deal. Students do not get into it as much. They have been having it in the stadium. All departments are doing their own things it is not collaborative.

Gallery/exhibition space, lobby

What do you show parents now, labs, wind tunnels, etc.

Windows for people looking in

Wayfinding, lighting HVAC is all outdated

The building can be used as a teaching tool from switch gear, electrical and data distribution etc. If you are strategic about these teaching opportunities that would be great.

End of Meeting