

Meeting Minutes



Architecture Engineering Planning Interiors

1111 Lincoln Mall
Suite 201
Lincoln, NE 68508

o: 402/742-4200
f: 402/742-7100

Meeting Date November 2, 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: Mark Riley, Joe Luck, Deepak Keshwani, Jayam, Subbiah
Purpose Department Workshop #1 Biological Systems Engineering

Action Items

Minutes

Confirmed Spaces Currently Occupied

Reviewed teaching vs. research labs

400 total undergrad students

Currently has no space in the engineering complex

They mostly work on East Campus

60 Grad Students

39 Faculty

3 Faculty Off Site

36 in Lincoln

They have 5 Clusters

- Power and Machinery
- Water & Irrigation
- Food and Biological Process Engineering
- Biomedical Engineering
- Environmental Engineering

Enrollment has grown 10% for the last 10 years

Need classroom space for 100 students

Need 40 to 100 classroom size range

Need classrooms conducive for the needs of today's students with team learning and robust technology

Purdue college of engineering has good classroom space as an example.

1st & 2nd year student classes on the downtown campus.

They like their offices on East Campus but lab space is an issue.

They have added 19 faculty in five years.

Teaching Lab space is a real need.

A teaching lab would be very flexible. Instructional is quite broad.

They do hydraulic testing and electrical circuits

Hallmarks of undergrad

- Deep relationships with faculty
- Hands on practical activities

Distance education

They distance learning is terrible, there is potential here if they have technology that works and they need to look at connectivity from east campus to downtown campus.

Grad students are spread out.

They collaborate a lot with Ag field work 50% INR 25% UNMC, 25% other

Tractor test lab is on East Campus and their home is Ag Engineering.

90% of their budget is from INR.

On the downtown campus team space would be very important.

Faculty need ;lab space downtown to be here.

They do need to work on East Campus regardless.

Power & Machinery needs to be on East Campus

Teaching Labs on downtown campus would be very desirable and they would be willing to come here to teach.

Water and Irrigation – could be partnerships with Civil Engineering, but it needs to be on east campus but water based labs could be shared with Civil. Research is done off site.

Environmental – interface with Civil, small teaching component

Food & Bioprocess – grain process – need facilities to teach this

Industrial Ag Products – Bioproducts, ethanol, etc. not pharmaceuticals. This could very much be located on the downtown campus with a bioprocessing lab.

Biomedical – Renovating Chase now – 5 faculty they need to collaborate with other Biomedical folks, work with UNMC, Madonna, College of Public Health etc. They are out of room for future growth at Chase.

Unmet need – very little interface with AG they need to do more of this and collaborate more.

Water & Irrigation needs to be on East Campus.

Biomedical engineers are all over the place now and they need to be a more cohesive group.

It would be great to do tractor testing on Downtown if they could.

Scheduling the lab space is critical, what ISU is doing is effective on how they manage space. We need to discuss this with Lance on how lab space is managed at COE.

Access for students after hours would be very important.

They are open to sharing lab space with all engineering students for biological systems.

Labs

How much exhausting are you doing? They have needs in Class 1,2 & 3 labs. BL3 lab is a need, they have one in Chase We need to understand how the downtown campus can best support what you are doing for all programs. 20% support on the downtown campus sounds right.

Ag Engineering has the greatest potential for growth in the future. 7% a year seems reasonable.

ISU and Penn State are good examples of programs they think are comparable.

Biomedical Engineering is the largest area of growth.

Ag engineering and mechanized systems is unique and the best

program in the country.

Nebraska has great faculty to support these programs where other Universities struggle.

Solid ground on salaries for faculty for INR.

Power and Machinery is specialization is the best at anywhere in the country.

Irrigated Ag is huge here. 4 center pivot corporations are here in NE and they have great partnerships here.

Largest faculty groups on Machinery in the country.

What would help you recruit top students?

Great teaching labs and showcase connection to employment is great. Career dev. Employers in residence would be great.

Career services is important.

Hoteling space and showcase space for employers to showcase to students.

Space for optimizing recruiting efforts.

Brand & Visibility is difficult on the Downtown Campus, no presence currently. A permanent E Week space would be great.

Recruiting for students here is broken and there needs to be more work here.

Students start downtown then head to east campus. What is the planned recruiting trail?

Faculty meets with students now to make up for their short comings.

Investing in teaching spaces is very important.

The farm will operate very different in 20 years.

Interface with computer science is important.

Brining in a lot of startups to Innovation campus

Because of our low unemployment we do not have enough people going into careers that support the State.

How can other engineering departments support AG.

End of Meeting