From: Mike Brayson
To: Liu, Judy
Subject: RE: Architectural Engineering
Date: Wednesday, March 15, 2017 2:40:25 PM

Hi Judy

Thank you for the invite to comment about the proposed Architectural Engineering program at OSU. As someone who has been involved in building construction for most of my professional life, I feel this program is needed and is timely in development.

When I took Construction Engineering Management at OSU (graduated 1980) I was already involved in the building construction industry and felt I needed to "bridge" much of the program content, primarily focused on heavy highway work, to the area of architectural construction. This was relatively easy to do because at that time much of the technology used in architectural work was fairly basic.

Eventually my career became involved with education and for over two decades I have been the lead instructor and coordinator of the Architectural Engineering Technology program at MHCC. During this time I have seen where the technology used in the design and construction of buildings has evolved substantially.

Technical tools and modeling software used in the AEC market has evolved over the last decade which allows designers to invest much more time in the technical design of building projects. Most of this design revolves around the environmental sustainability of such projects, and the design of the building as a complete environmental system. The physical configuration of the walls and fenestration, location and orientation of site, the interaction of renewable energy systems and the conservation of fossil fuels are all technical challenges that have now become part of the front end design process of any significant building project. Furthermore, design criteria and building codes are starting to require this type modeling for all projects.

In addition, the modeling software, Building Information Modeling (BIM), can be used for not only the design of the project, but also for detailed estimating and construction management of the structure and site. When I first saw the capabilities of BIM I had concluded that the software was certainly a game changer for the building industry and perhaps the most revolutionary bit of technology I have seen hit the industry in my lifetime.

In reviewing the proposal there was some mention about how the Architectural Engineering program could potentially attract more students with ethnic and gender diversity. I would like mention that yes, this matches the experience we have had with the AET program at MHCC. This is anecdotal, but I would estimate that the female and minority populations that have graduated with AET to be about double of what we have experienced with the other ET offerings.

Oregon and the building construction industry needs a program like this. The application of these emerging technologies, in both scope and depth, goes well beyond what we can cover with a two year community college experience.

Thank you for this opportunity to allow me to provide input for the adoption of OSU's Architectural Engineering Program

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Ph: 503 491-7118
email: Mike.Brayson@mhcc.edu

From: Liu, Judy [mailto:Judy.Liu@oregonstate.edu]
Sent: Tuesday, March 14, 2017 4:10 PM
To: Mike Brayson <Mike.Brayson@mhcc.edu>
Subject: RE: Architectural Engineering

Mike,
Just following up to see if you have any questions, and if you might be willing to provide a brief e-mail statement or letter of support.
Hope you're having a great week!
Judy

From: Liu, Judy
Sent: Tuesday, March 07, 2017 3:12 PM
To: 'Mike Brayson' <Mike.Brayson@mhcc.edu>
Subject: RE: Architectural Engineering

Mike,

Great, thanks so much! Here is a link to the current Cat. I proposal:
https://www.dropbox.com/s/0xz2tlribfu7ds4/AE_Cat_I_Feb3.pdf?dl=0

We are currently revising the proposal based on feedback from the College committee, mostly adding information and providing better clarity in some sections. For example, in Section 6d of the main body of the proposal (p. 22), I was starting to add text along the lines of:

> The proposed program complements the existing Mt. Hood Community College (MHCC) Architectural Engineering Technology program by educating engineers who would work with the technicians who graduate with an MHCC Associate of Applied Science Degree. The

proposed program may also provide additional opportunities for MHCC Architectural Engineering Technology graduates. MHCC is part of OSU's Degree Partnership Program (DPP), which allows students to transition to OSU easily.

Certainly a more informed statement and/or a brief letter of support from MHCC would be greatly appreciated!

Thank you for your time and do let me know if you have any questions about the proposed program.
Go Beavs!
Judy

From: Mike Brayson [mailto:Mike.Brayson@mhcc.edu]
Sent: Tuesday, March 07, 2017 3:04 PM
To: Liu, Judy <Judy.Liu@oregonstate.edu>
Subject: RE: Architectural Engineering

Hi Judy

Yeah, definitely interested, please send me a link so I/we can look it over….

BTW I am a BS-CEM, OSU, 1980

Look forward to seeing what we can do with OSU

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From: Liu, Judy [mailto:Judy.Liu@oregonstate.edu]
Sent: Tuesday, March 07, 2017 2:46 PM
To: Mike Brayson <Mike.Brayson@mhcc.edu>
Cc: Liu, Judy <Judy.Liu@oregonstate.edu>
Subject: Architectural Engineering

Dear Mike,

I hope this e-mail finds you well. Apologies for this e-mail out of the blue – we are proposing a new 4-year B.S. degree program in Architectural Engineering here at OSU, and I would appreciate the opportunity to chat with you about our proposal. I think that the new program can complement your AET program, and perhaps provide additional opportunities for graduates of your program. I'd be happy to send you a link to a copy of our current proposal and/or call you to discuss.

Thank you for your time.
Judy

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