

CBE TECHNOLOGY TASK GROUP

STUDENT SURVEY RESULTS

1. How do you think technology, in its use and integration in design, might be taught more effectively (within Departments, and CBE-wide)?

MORE ACCESS TO TECH	MORE SPACE	MORE INTEGRATION	MORE ONLINE HELP	MORE VISION	PROGRAMS/ PLATFORMS FOR PROF. USE	MORE WORKSHOPS
6	1	13	4	3	9	6

- a. Summary: The most common response was more integration across courses and across CBE. The next response was more use of platforms used in professional work. The next few responses called for improved access to tech resources, more workshops and more online tutorials for gaining skills.

- b. Example Responses:

"I feel 1 week evening workshops would be better than devoting full quarter courses to design and planning technology. These workshops can focus on different technology applications and can be recorded so that students can go through them during summer/ winter breaks."

"Online tutorials made available as playlists in the order in which they should be followed would be better than what was previously in place. Using Panopto is helpful while the student is in the course, but having that information available through Vimeo or YouTube would allow students access throughout their time here (and, in a perfect world, through the rest of their careers.)

I do think that there is so much technology and so many programs to use that it is very difficult to select what to teach and to what depth it should be taught. Different firms and employers use different software, so it is a bit hit and miss.

Augmented and virtual reality in design would be great courses to include and the idea of CBE partnering with the computer science department on developing design tools within these realms is of particular interest."

2. How do you see technology affecting your institution/ practice/work in the near term?

BIG IMPACT (UNDEFINED)	MUST WORK TO KEEP UP WITH CHANGES	NEW DESIGN CAPABILITES	MUST BE BALANCED WITH TRADITION	ENABLE IMPROVED COLLABORATION
23	9	10	1	6

a. Summary: Many students agreed that technology would have a large (though undefined) impact on their future work. Some students recognized this could mean new design and collaboration capabilities, but also that it would require work to keep up to date.

b. Example Responses:

“Much of what I do and will do professionally involves technology and web-based tools. I think technology will continue to affect all of the above profoundly in the future.”

“Tools that help us communicate and collaborate more humanely. Meaning tools that do not remove us from understanding the human experience but lead us to previously unimagined moments of collaboration.”

3. From your point of view, what is the potential of technology to design and understand a better built environment for the future?

BIG POTENTIAL	IMPROVED DESIGN / ANALYSIS	ADDRESSES GRAND CHALLENGES	BETTER SYNTHESIS	IMPROVED SPEED	IMPROVED COMMUNICATION	BETTER VISUALIZATION	REQUIRES THOUGHTFULNESS
12	11	3	5	3	9	5	7

- a. Summary: Students acknowledged the potential of technology for better synthesis of more variables in design and better visualization tools. Yet students also acknowledged that this requires thoughtfulness.

- b. Example Responses:

“I believe there is unlimited potential for the application of technology to improve design and understanding of the built environment. Leveraging technology to analyze and model complex adaptive systems such as our cities allows for better-informed decisions and policy development, which in turn provides for a better built environment.”

“Technology itself cannot design a better built environment for the future. Technology combined with collaboration and human creativity can be used in a targeted fashion to enhance our designs, save costs, and engage more people (among a slew of other things). It should never be the end-all be-all goal, but it should never be overlooked either.”