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Good morning FM Team,

I thought it would be interesting to share about the recent efforts of Terry Adams and Mike Shortall of the Space & Mapping section. For the last two and half months they have been intensely focused on determining new classroom capacities, putting six-foot social distancing in place for the safety of returning students and faculty for the fall 2020 semester. They were charged with supplying capacity count as quickly as possible for the Office of the Registrar, and general assignment classrooms alone make up over 180 rooms!

It may sound simple if you think it is as easy as using a calculation of the room's square footage divided by a six-foot radius for each person. Unfortunately, this approach is not effective because it does not account for the room's structural configuration—in particular, furniture, ADA needs, movement needed by the instructors to access the marker boards and equipment, and flow or egress. Because of these considerations, each room had to be designed separately. Terry and Mike dove in at once, detailing exactly where each chair and table would be placed to accommodate maximum capacity.

First, a drawing of each room's existing layout was created. Much of this information came from hours of researching archived project files and converting found information into usable drafting AutoCAD drawings. Although they knew each room's current capacity and what rooms had fixed or freestanding furniture, they did not have existing drawings of most of the room's furniture layouts or the specifics of each room's furniture. The quickest way to obtain this information was to research archived project files and convert those files into usable files. They divided the work to streamline the process. Mike took the deep dive into old archives, converting PDF files into AutoCAD files and when necessary went to campus to field-verify the classrooms while Terry took those drawings, creating scaled drawings for each room's existing layout and the new six-foot distancing layout. Most rooms required a couple of layout options to determine which layout would give the best work flow and greatest capacity.

After all the general assignment classrooms were completed, other spaces under consideration for use were designed as well, such as event halls, ballrooms, and gymnasiums, and further included department requests. The total drawings created were over 400—and the work continues! Currently Terry's working on creating PDFs of each room's layouts and Mike is on campus moving furniture from rooms. There are 12,344 seats to reconfigure or mark for seating availability. It will take a team to remove all the furniture out of each room; mark the floors as to exactly where the new layout's furniture needs to be placed; place the furniture to the exacting dimensions of the new layout; clearly mark auditorium seating to show which seats are available to sit in or not; and move and store the excess furniture for the duration of the required six-foot distancing mandates during the COVID-19 pandemic.

Of course, this is just one small part of this incredible project that so many of us are working on. It takes a team to get all this accomplished. Actually, it takes the CSU Community.

Take care,



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