

Engineering Remodel

Goal:

Enhance the performance and aesthetic of the facility, while modernizing the engineering building by improving:

- Energy efficiency
- Student experience
- Instructional capacity and upgrades
- Office capacity
- Research infrastructure
- The integration of adjacent buildings into the functionality of engineering building
- Code compliance and potential structural issues
- Support services
- Construction phasing to enable continued instruction and research obligations

Energy efficiency:

Leverage existing deferred maintenance projects along with upgrades to achieve LEED Gold certification for existing facilities. This includes upgrading the many air handling units across the facility.

Student experience:

We envision a new entry to the building increasing the square footage of the existing facility by 3000 to 5000 sf. This new two-story entry would create study and collision space for students at the entrance with soft seating, and the opportunity for functions, poster sessions, and other activities to celebrate student achievement.

The second floor or mezzanine of this new space will be focused on student huddle rooms, study areas, and additional office space for faculty and staff. Our current vision includes relocating the existing stairs in the building to this space to enable energy efficiencies at the entrance as well as managing access to adjacent engineering space being put in place through the Anschutz Engineering Center project. Relocating the stairs will free up significant space to help with the goal of capturing additional square footage for instruction and office capacity.

Instructional capacity and upgrades:

Modernize classrooms, conference rooms, and instructional laboratories with upgrades in furniture, finishes, and equipment. Examine the current use of spaces within the building to determine if the current use is optimized for the mission of instruction and research. This should include a broad array of improvements including audio/visual, internet access, and creating a facility that enables remote access where appropriate.

Office capacity:

Where possible increase the number of offices available to faculty and staff.

Research Infrastructure:

Upgrade research facilities throughout the building giving special attention to modernizing the existing clean room used for fabrication and characterization of microelectronic devices. Our current recommendation is to modernize the facility for instruction and research while reducing its footprint by ~25% and using the captured space to broaden faculty research space. There may be an opportunity to reduce the second-floor infrastructure footprint for air handling in this remodel.

Integrating Adjacent Engineering Facilities:

Currently neighboring facilities for the engineering building include facilities in the Osborne Center for Science and Engineering as well as the new Anschutz Engineering Center comprising two buildings. We envision connections to these two new buildings under construction in August of 2022 with a completion date of December 2023. A goal is to provide access to the primary structure focused on instructional laboratories adjacent to the east wall of the engineering building. Access to the Design and Prototyping facility on the north side of the building will be through a new hallway. Developing an integrated courtyard to connect the two facilities would have significant impact on the student experience. As well as resolving ADA parking challenges and parking in general

Code Compliance and structural issues:

During the remodel of the building, address code compliance issues while addressing potential heaving and settlement issues in isolated locations on the first floor of the building. Provide attention to ADA compliance to ensure access to engineering facilities.

Support Services

Improve support services for the building with a focus on the following:

- Lighting and Ceiling upgrades
- Finishes
- Restroom remodel and upgrades
- Lactation room
- All Gender restroom

Phasing the Project:

We envision a phased approach to the remodel to enable faculty and students to continue to achieve educational goals. At any one time we will need approximately half of the facility to be functional so as not to delay graduation and maintain accreditation of our programs.