

## **ARCHITECTURE**

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Prior to the construction of the Business Building, the Smeal College of Business was spread throughout campus and did not have a facility that was dedicated to its faculty, staff, and students. Such was the intent of the Smeal Business Building and its architecture reflects this “coming together” through its two seemingly distinct rectilinear plans, one for the undergraduate program and the other for the graduate program, which are joined in the center by an open and transparent atrium, unifying them into one building. Openness and transparency are two of the College’s three values, the third value being community.

For the architecture breadth, strategic areas of the building will be redesigned to reflect the value of community. While the intent was to remove the scattered quality of the business school, they do not have to remove themselves once unified in order to achieve that togetherness. After all, the Business College is still one part of many in the community that is Penn State. Therefore, the most critical aspect of the architecture breadth work will be to connect the Business Building to the rest of the University Park campus.

This concept will be implemented through the redesign of the southern terrace. This terrace serves as the Business Building’s primary entrance from campus yet there are solid brick walls surrounding the front of it, which seem to barricade the campus away. The terrace will be redesigned to appear more open and inviting, hence fostering that sense of community that the College values.

## **SUSTAINABLE DESIGN**

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### LEED® POINT STUDY

The Business Building did not attempt LEED certification so its level of sustainability as measured by the United States Green Building Council (USGBC) is unknown. For the sustainable design breadth, the lighting and electrical depths will be completed with the intent to earn LEED points where applicable. This will be achieved by evaluating all the redesign work through USGBC’s credit submittal sheets for LEED-NC version 2.2, the most current version available for new construction projects.

The LEED credits that will be attempted will be under Sustainable Sites, Energy & Atmosphere, and Indoor Environmental Quality. In reality, a building cannot move forward with a section if it does not meet the listed prerequisites, however, they will be ignored for the purposes of this project as the prerequisites are either calling for the building to meet building codes, which is a given in this case since the Business Building has already been built and occupied for a few years now, or they are not applicable to the scope of this project (i.e., prerequisites are HVAC related).

The LEED credits that will be presented along with the expected outcome are as follows:

- SS Credit 8 – Light Pollution Reduction  
NO: Due to the nature of the proposed redesign of the exterior lighting, this credit is not expected.
- E&A Credit 2.1 – On-Site Renewable Energy, 2.5%  
MAYBE: A photovoltaic system will be used as the basis for this credit attempt.  
Unfortunately, it is doubtful that the 2.5% level will be met due to the large size of the building and the relative lack of sunlight in University Park, PA but more research must be done before the expected outcome can be stated confidently.  
*Note: This credit evaluation is contingent on the approval of the photovoltaic study that was proposed under the electrical depth work of this project.*
- EQ Credit 6.1 – Controllability of Systems: Lighting  
YES: Manual controls will be provided in the classroom as well as local controls in the café food service areas so this credit is expected.