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**KEEPING OUTDOOR
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LAYERS OF SECURITY**

**REACHING PROSPECTIVE
STUDENTS WITH
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**ENHANCING
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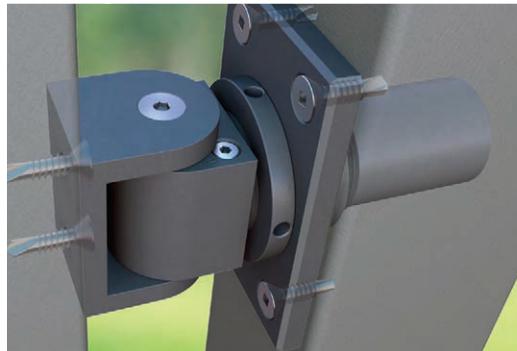
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ENHANCING CAMPUS AESTHETICS WITH EXTERIOR DOORS AND WINDOWS

by David Vinson

Architecture is a visual art, one not so unlike a painting or sculpture. Architects, particularly those who set out to innovate and inspire, adopt a design process by which they arrange art elements to create a unified and pleasing whole. As such, the vocabulary traditionally applied in the creation or analysis of a painting also can be applied to architecture, and understanding architectural design is simplified if we think of the “façade”—or face—of a building much in the way we do a painting.



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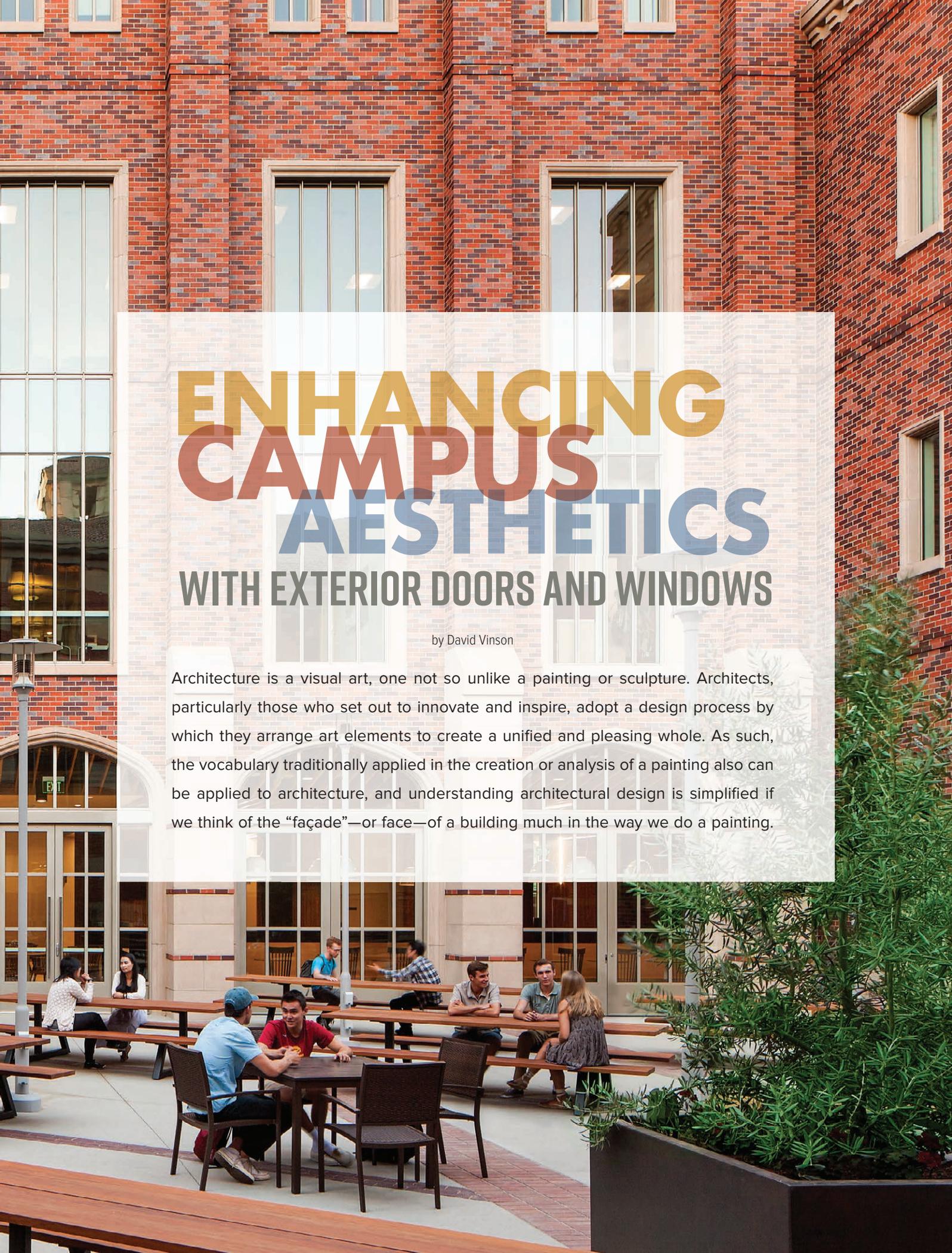
REACHING PROSPECTIVE STUDENTS WITH LANDSCAPE DESIGN

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A 2018 study found that campus appearance plays an instrumental role in the decision-making process of prospective students, particularly during campus tours. It is striking, then, that a 1986 study by the Carnegie Foundation for the Advancement of Teaching (CFAT) came to the same conclusion, noting in fact that for 62% of prospective students, campus appearance was the most influential factor when deciding where to enroll.



THE GAUGHAN

The background image shows a multi-story brick building with large, multi-paned windows. In the foreground, a courtyard area features several wooden picnic tables and chairs. A group of young people is sitting at the tables, engaged in conversation. A large planter box with green foliage is visible on the right side of the courtyard. The overall scene is bright and sunny, suggesting an outdoor campus setting.

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Architecture is a visual art, one not so unlike a painting or sculpture. Architects, particularly those who set out to innovate and inspire, adopt a design process by which they arrange art elements to create a unified and pleasing whole. As such, the vocabulary traditionally applied in the creation or analysis of a painting also can be applied to architecture, and understanding architectural design is simplified if we think of the “façade”—or face—of a building much in the way we do a painting.



Photo by John Linden

There is no rule that states a functional building cannot also be beautiful, and the study of aesthetics in architecture allows us to look holistically at the combined effects of a building's shape, size, color, unity, proportion, symmetry, and context, among numerous other design elements.

There exists, of course, an obvious difference between a building and a painting. A building is designed foremost so that it can be occupied, and its design elements, whether they are intended to be beautiful or not, must abide by safety standards. But there is no rule that states a functional building cannot also be beautiful, and the study of aesthetics in architecture allows us to look holistically at the combined effects of a building's shape, size, color, unity, proportion, symmetry, and context, among numerous other design elements.

Exterior windows and doors are a key component of any building's aesthetics. Imagine a beautiful home, but one equipped with a shoddy door. A single design element on the "face" of the home can detract from the whole, thereby hindering its curb appeal. The same can be said of windows—a home (or any other building) can be transformed in look and feel by windows designed to let in more natural light. A window easily opened can create ventilation that cools a building; it

can likewise reduce energy cost and usage, or even thwart potentially contaminated airflow in busy indoor spaces—the latter of which is vital given the challenges we each face amidst the Covid-19 pandemic. Exterior doors and windows can also make a difference in keeping occupants safe from intruders.

With ongoing renovations and new projects at private universities and colleges around the country, institutions recognize the appeal of building exteriors to prospective and current students, in addition to faculty and staff. For this reason, it would be remiss to overlook the extent to which exterior doors and windows can enhance the aesthetic value of buildings on campus.

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Hope's customized window and door systems have graced the campuses of colleges and universities for over 100 years, beginning with its very first order for Prudence Risley Hall at Cornell University. Recently, Hope's has embarked on several campus-based projects, one of which is the Chapel of the Resurrection at Valparaiso University (Valparaiso, IN). The chapel itself is one of the largest collegiate chapels in the world, the crown jewel of the 350-acre campus Hope's was hired to assist in the preservation project, and the company replaced nearly 1,000 individual windows. Installed were Hope's Jamestown175™ Series steel windows, and these were selected to precisely match the sightlines and colors of the original windows. The 24 original windows surrounding the chapel's nave were 58 feet in height and covered a combined surface of 16,700 square feet—and yet now they are both energy efficient and congruent with the historic integrity of the building. Moreover, each window was removed and replaced with fixed and operable Hope's® solid hot-rolled steel windows. These are strong enough to allow for the narrowest frame dimensions and maximum glass area, thereby producing the best possible views.

At Stanford University (Stanford, CA), one can locate the Institute for Economic Research Policy, which stands as another example of stellar, campus-based work by Hope's. The company's engineering and manufacturing capabilities were put to the test by a project that included a 3-story wall system, fire-rated and non-rated doors and windows, custom shapes, custom-engineered sub-frames, reinforced muntins (a strip of wood or metal separating and holding panes of glass in a window), and more—all to accommodate for high slope, seismic drift, windload, air, and water requirements. Hope's met each challenge and successfully contributed to a structure that will stand the test of time.

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Large windows allow more natural daylight to fill a room. Natural light not only reduces energy consumption, but it promotes a feeling of well-being and can positively impact the mood and productivity of building occupants. This would be especially beneficial in campus spaces such as classrooms, libraries, or dormitories.

or longer, and the company has done so while simultaneously providing timeless aesthetic appeal. Hope's solid steel and bronze windows and doors offer unmatched strength and performance, the thinnest sightlines of any fenestration material, monumental sizes, and design flexibility, plus energy efficiency and a long life cycle. The strength of Hope's solid hot-rolled steel can sustain incredible structural load requirements, which in turn enables the manufacturer to reach exact design requirements for monumental openings in virtually unlimited scale, shapes, and configurations. Hope's manages all of this while also maintaining minimal sightlines and maximum

glass area—a distinct aesthetic that cannot be duplicated by other materials.

Hope's custom products are remarkably durable and wide-ranging in their utility, from hurricane and impact-rated windows and doors, to fire-rated window and door systems, and even to hot-rolled steel windows and doors with Thermal Evolution™ technology. Compare this life cycle to alternatives such as wood, vinyl, and aluminum, and it is evident that Hope's represents the best long-term investment, whether financially or environmentally.

The products at Hope's are also subjected to more independent, third-party testing and

certifications than any other steel window and door company in the United States. As a reflection of the confidence that Hope's has in its products, the company provides detailed testing results from industry organizations such as the American Society for Testing and Materials (ASTM), the National Fenestration Rating Council (NFRC), the Florida Building Code, and many others. The testing addresses building code compliance, hurricane and impact resistance, forced entry security, thermal performance, fire resistance, bullet resistance, finish performance, blast protection, in addition to air, water, and structural performance.

Regarding its finishing system, Hope's has developed in cooperation with top U.S. metallurgists and architectural coating suppliers the Hope's Power of 5™ Finishing System. The system has been engineered to ensure that windows and doors remain pristine and free from both corrosion and abrasion on a long-term basis, even in the harshest environments, whether inland or coastal. Hope's steel window and door coatings are lead-free, contain zero hazardous air pollutants (HAPs), and have ultra-low volatile organic compounds (VOCs).

Hope's Commitment to the Environment and to the Consumer's Well-Being

For universities and colleges that have embraced the culture of sustainability, be sure to note that Hope's creates energy-efficient windows and doors from sustainable materials. The steel windows and doors are made with hot-rolled steel sections that are 100% recycled (97% post-consumer, 3% post-industrial). Because Hope's cares about sustainability and energy efficiency, the company is glad to assist building owners and architects in fulfilling credits within the LEED Rating System.

Windows manufactured by Hope's allow for larger openings and narrower frames, which allow more natural daylight to fill a room. Natural light not only reduces energy consumption, but it promotes a feeling of well-being and can positively impact the mood and productivity of building occupants. This would be especially beneficial in campus spaces such as classrooms, libraries, or dormitories.

Cleaner, Healthier, and More Versatile Learning Spaces

Hope's understands that the Covid-19 pandemic weighs heavily on the minds of students, faculty, and staff. As such, it offers a variety of window and door operating types, those such as projected and casement, top hung, single hung, and pivoted windows as well as swing, pivot, and sliding doors for ventilation. In a 30-foot by 30-foot classroom occupied by 25 students, the air should be replaced at least every 15 minutes, which equals an Air Changes per Hour (ACH) of 4. Simply opening windows is an easy way to improve ventilation. Researchers at Harvard University have found that opening the windows in a room just six inches can result in an ACH of 5 or more with clean, outdoor air.

In addition to its exterior windows and doors, Hope's offers custom designs of doors and walls of windows for interiors. These define and separate spaces without blocking natural light, thereby creating airy and inviting indoor spaces. Hope's interior windows and doors have been installed to define public interior spaces (research labs, fitness facilities, and more) at institutions like MIT's School of Architecture and Planning.

The "Face" of Campus-Based Buildings

Our campus buildings should be a source of pride, not simply for their functionality or versatility, but also for their aesthetic value. The "face" of campus-based buildings matter to prospective students, just as they do to current students, faculty, and staff.

Exterior windows and doors are a key component of any building's outward appearance, but when also designed properly—as we have seen with Hope's windows and door systems—they can also transform a building's interior into spaces that are cleaner, healthier, and more energy efficient.



ABOUT THE AUTHOR: PUPN staff writer

Dr. David Vinson has a PhD in English with specializations in transatlantic literature and cultural studies. He is a committed scholar, teacher, husband, and dad. If you ever meet David, avoid the subject of soccer. His fandom borders on the truly obnoxious.

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KEEPING OUTDOOR SPACES SAFE

WITH LAYERS OF SECURITY

by David Vinson

Not only do college campuses span hundreds or even thousands of acres, but the variety of spaces contained by each—those ranging from parking lots to nature trails—require careful consideration in terms of outdoor security. After all, many of the standard indoor security solutions such as locks, access control, and intrusion alarms have considerably less impact outdoors.

The development of security strategies is informed by certain key differences in the objectives of indoor versus outdoor security. Indoor security is primarily oriented around the protection of assets (for instance, the materials inside a research lab) whereas outdoor security is centered around the protection of people. The most pressing challenge of outdoor security is that most university campuses are porous. Compare this to K-12 campuses, which offer minimal public entry points and therefore can be fenced. University campuses typically contain multiple entry points, and this is very much intentional, so as to welcome the public to entertainment and sporting events, or to serve the public with campus-based health clinics.



Of course, students are entitled to their security as they walk from the library to the dorm late at night, or as they embark on the long walk to a remote parking lot—but this can hardly be managed by campus patrol alone. Fortunately, there are proven security solutions that aid in the protection of all campus occupants—students, faculty, and staff alike. Best practices call for layers of security, each working to protect campus occupants as they navigate outdoor spaces.

Implementing Layers of Security

There are a number of ways to ensure a safe outdoor environment on campus. Video surveillance is one such measure, a layer of security in which video cameras provide real-time and forensic views of campus. These can act as a deterrent to criminals, reminding them that they are under surveillance by police. Placement is key, and cameras should be mounted near entrances and exits, at parking lots, in at-risk areas such as poorly lit walking paths, or where occupants might find themselves alone.

Emergency stations are another effective layer of security. These stations, which come as stand-alone towers or wall-mounted boxes, are easily recognizable since they are typically topped with a bright blue light. Their function is to put students and visitors into immediate contact with campus police. Built-in audio intercoms provide two-way communication without the additional expense of telephone lines. The stations can also be equipped with video intercoms, providing police with real-time video that could prove helpful in assessing potential criminal acts. The units can be integrated with existing campus surveillance cameras for a broader view of the area. It is worth noting, too, that emergency stations are always available, day and night, and that police dispatchers can immediately locate the precise location of calls.

Smartphones, which are carried by practically all students, work as another layer of outdoor security. Smartphones allow campuses to employ one of the dozens of commercial and campus-initiated apps capable of accessing campus police. Many allow users to submit

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voice and video, and they likewise allow other users to track a friend's progress as he or she walks to a destination. The apps do have some limitations—for instance, they require a student to enroll in the program and download the app itself; likewise, full enrollment is uncommon. The apps are useless, of course, if the phone battery has died or if the phone was the object stolen in an encounter.

Many of the principals of Crime Prevention through Environmental Design (CPTED) also make outdoor security possible. Trimming bushes and trees to deny criminals hiding places certainly helps, as does adding lighting wherever possible. Fences and gates help keep potential threats at a distance, as well.

Another successful layer of outdoor security is the use of a safety escort. This may involve campus police or student volunteers who have been both screened and trained. At Ithaca College (Ithaca, NY), for instance, students may request escorts from any campus location by either security officers, patrol officers, or the Student Auxiliary Safety Patrol (SASP) members—the latter of which consists of 35 to

40 students who patrol the campus nightly. The SASP not only assist with the campus escort program, but they also perform blue-light phone checks, emergency phone checks, staff the Public Safety Satellite Office, and assist with special events such as commencement and move-in day. SASP members are trained to be alert to the safety needs of the Ithaca College community as they patrol residence halls, academic buildings, parking lots, and other areas of campus.

Assessing Risk

While there exists no single technology, device, or service capable of handling all outdoor campus emergencies, the layering of security solutions assures that our campuses are safer than ever thanks to the cumulative impact of video surveillance, emergency towers and stations, CPTED, smartphone apps, and safety escorts.

How much of each layer is required varies on the size, location, number of students, and other factors on each campus. A risk assessment, one conducted by an experi-

enced security professional, can help any campus determine its security strengths and weaknesses. An assessment should lead to a plan that helps administrators determine how and where limited budgets should be spent.

The implementation of a thorough security plan, both indoors and outdoors, can certainly go a long way towards alleviating any concern that parents may have as they help their children select a college or university. Moreover, campus occupants will be more inclined to use campus facilities at all hours, day or night, if they regularly engage with multiple layers of security.



ABOUT THE AUTHOR: PUPN staff writer

Dr. David Vinson has a PhD in English with specializations in transatlantic literature and cultural studies. He is a committed scholar, teacher, husband, and dad. If you ever meet David, avoid the subject of soccer. His fandom borders on the truly obnoxious.

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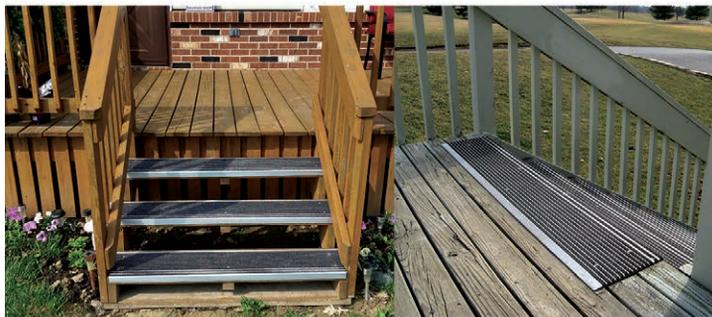
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REACHING PROSPECTIVE STUDENTS WITH Landscape Design

by David Vinson

A 2018 study (“The Significance of Campus Visitations to College Choice and Strategic Enrollment Management”) found that campus appearance plays an instrumental role in the decision-making process of prospective students, particularly during campus tours. It is striking, then, that a 1986 study by the Carnegie Foundation for the Advancement of Teaching (CFAT) came to the same conclusion, noting in fact that for 62% of prospective students, campus appearance was the most influential factor when deciding where to enroll.



LILLY HALL
2004AL 1980S

The two studies are separated by 32 years, a period in which higher education has undergone seismic changes, both technological and cultural—and yet, despite these changes, the value of campus appearance to prospective students is as great as ever. The pair of studies reinforce what we already know about first impressions—they are critical. Students expect campuses to be clean, sensibly designed, and landscaped with precision. They are drawn to notable architecture as well as a variety of spaces fit for studying, relaxing, and socializing. Campus appearance works as a powerful recruitment tool, not least of all because prospective students anticipate spending the majority of their time on campus grounds. Moreover, campus appearance influences the perception of the institution and the educational experience it offers.

The size of the campus, the variety of landscapes therein, and then the traffic itself—the daily usage by students, faculty, and staff—all inform the daily as well as seasonal strategies necessary for keeping any campus clean and beautiful.

Landscaping Objectives and Strategies: Taking Note from Howard University

Landscape design at its best reflects the institution's core values just as it satisfies students' desires for beautiful, versatile campus-based outdoor spaces. The obvious starting point is to understand, preserve, and enhance design intent. As such, Howard University (Washington, D.C.) serves as a fine case study.

Starting with a single building in 1867, Howard University has since expanded to 258-acres and over 115 buildings. Its original site was chosen on a hilltop that offers panoramic views of the nation's capital; to the east, it is bordered by the McMillan Reservoir, which supplies the majority of the city's municipal water. The campus' major expansion following WWI was the product of collaboration between landscape architect and horticulturalist David Williston and architect Albert Cassell. Cassell created the campus master plan, including Frederick Douglass Hall and Founder's Library, both National Historic Landmarks. Since then, at

the figurative "center" of the campus is the Main Quadrangle (known otherwise as "The Yard"), which was redesigned with precise cross-paths and tree placements. The hillside east of the Main Quadrangle is terraced, with stairs leading down to the Lower Quadrangle. The two spaces are set off from the rest of campus by a gorgeous brick and wrought iron fence with entrance gates designed by architect Louis Fry, Jr.

With careful planning and maintenance each year, Howard University has managed to enhance design intent by using sound horticultural practices, incorporating color into the landscape, and using plants to announce the seasons. And because the University is located in the heart of urban Washington, D.C., it has prioritized the implementation of a clear, well-defined perimeter. To do so creates a sense of unified space, one unique to the campus itself. For instance, nearly half of campus housing is located along the campus perimeter. Over the past several years, these areas have been transformed by vibrant, new green spaces that border the housing

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structures. The “campus perimeter” project, along with streetscape improvements throughout the campus, have reinvigorated the University’s brand image. Such measures are conceived with an “economy of intervention,” so that each landscape improvement aligns with the University’s green infrastructure, one whose design calls attention to the widespread problems of air pollution abatement, stormwater management, and urban heat island effects.

Another landscape project at Howard University concerns the enhancement of connectivity and walkability with high-quality walkable spaces and strong pedestrian connections throughout the campus, most notably on the east-west and north-south axes, those which link to public transportation throughout the city.

Additional Strategies for Improving Landscape Design

According to research (See Rodney H. Matsuoka’s “Student Performance and High School Landscapes: Examining the Links”), when students are around engaging landscapes, they tend to perform better academically and enjoy improved mental health. What follows are a few suggestions for improving landscape design on campus, those which may indeed contribute to the greater well-being of students, not to mention faculty and staff, as well:



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Students expect campuses to be clean, sensibly designed, and landscaped with precision. They are drawn to notable architecture as well as a variety of spaces fit for studying, relaxing, and socializing.

1. Add plenty of greenery. Vegetation is not only aesthetically pleasing, but it absorbs carbon from the air, which means campus air is cleaner and fresher. Other benefits include noise reduction as well as more opportunity for students to engage with green spaces.

From large green patches of grass to pathways lined with planters, there are ample ways to make campuses greener. Refrain, however, from planting vegetation that requires too much maintenance. It would be best to stick to native plants for this reason.

2. Bike-friendly pathways. Many college students are greatly reliant on their bikes for transportation. This occurs for a number of reasons ranging from a lack of on-campus parking to a means of exercise. Campus

landscaping, as such, should accommodate cyclists, offering bike paths that are accessible all over campus. Bike racks at building entrances are an additional necessity.

3. Safety after dark with landscape lighting. Lighting is another important element of college campus landscaping because students may frequent campus after dark. Line all pathways with lighting fixtures and keep in mind that variety offers additional aesthetic value.

4. Create collaborative outdoor group spaces. Group collaboration is an important aspect of the higher education experience, one that translates well to the workforce thereafter. It is key to create spaces for students

to collaborate on projects, study for exams, and/or socialize. Add outdoor seating areas near frequented buildings such as libraries or cafeterias. Moreover, planting trees to such spaces provides shade and adds further ambiance.

5. Keep sustainability in mind. The way in which a college campus is landscaped reflects the mindset of the university, which can in turn impact students and their behaviors going forward. For instance, to add recycling bins promotes the mindset of recycling. Use recycled materials wherever possible, and opt for long-lasting fixtures and landscaping elements to reduce personal waste.



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The Nightlock Lockdown Door Barricade allows a teacher to immediately lock the door from inside the classroom, eliminating exposure during a hostile intruder situation. This device makes it virtually impossible for an intruder to break through an entry door.

- Simply add this safety device to classroom doors
- Works with outward and inward swing doors
- No need to replace existing hardware
- One time solution - easy to install
- Lockdown in seconds

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