Central Washington University CAPITAL MASTER PLAN 2019-2029



2019-2029

CWU CAPITAL MASTER PLAN

REVISED AUGUST 2020

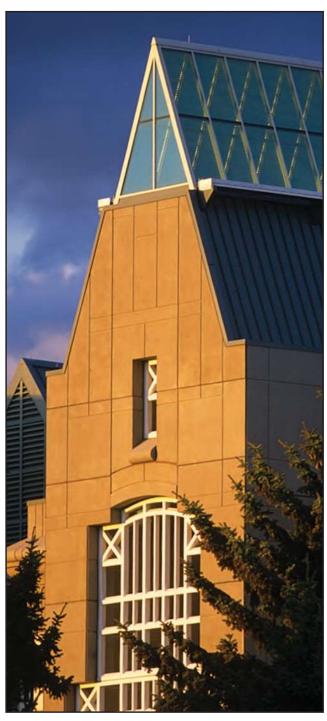
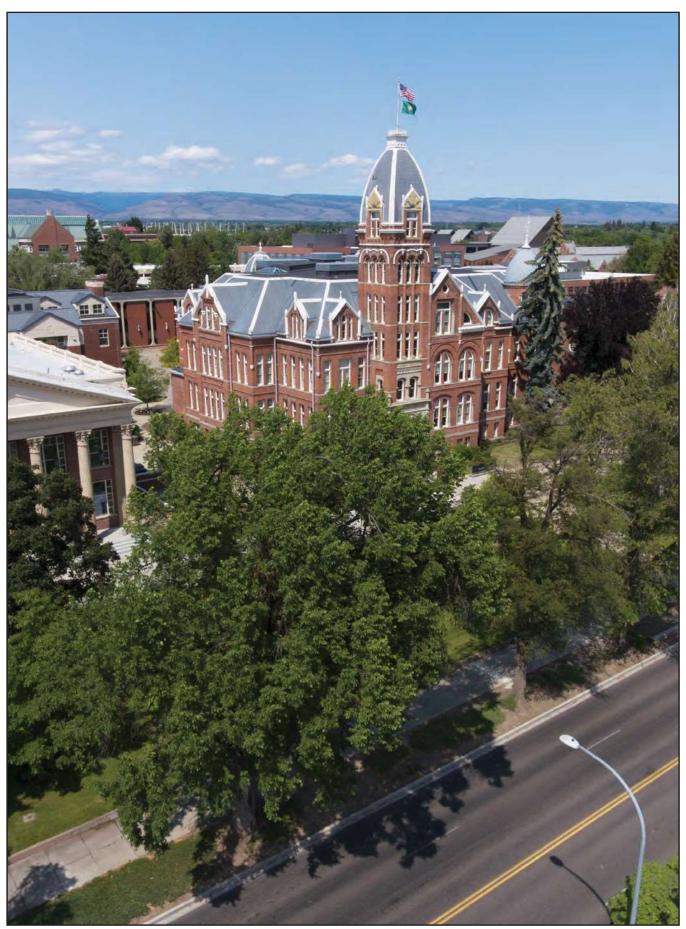


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Barge Hall in the Central Neighborhood.

CHAPTER 1. **EXECUTIVE SUMMARY**

The 2019 Capital Master Plan is a 10-year plan. Although previous plans have claimed a two-decade outlook, this one recognizes the reality that state budget and policy priorities change each biennium. It recognizes the rapid and continuous evolution in technology that must be integrated into our understanding of a modern administrative, academic, and student-life infrastructure. It reflects the new expectations and needs of each new class, and the responsibility to accommodate them, if possible.

The plan presents a vision toward which we can reach, a vision that expands physical and virtual capacity. But the complexity of building and funding this expansion likely will stretch the realization of this vision a decade or more. The framework of this plan, then, must be flexible enough to accommodate continuous change but strong enough to sustain a vision over time.

The Capital Master Plan focuses on the residential campus in Ellensburg, since CWU does not own satellite locations: Sammamish, Joint Base Lewis-McChord, and University Centers. The plan supports the mission, vision, and values of the university's strategic plan, and the five core themes:

- 1. Teaching and Learning
- 2. Inclusivity and Diversity
- 3. Scholarship and Creative Expression
- 4. Public Service and Community Engagement
- 5. Resource Development and Stewardship

MASTER PLANNING ASSUMPTIONS

The number of students enrolled at CWU has remained relatively constant since 2010. CWU will strive to grow headcount enrollment at the residential campus to 12,000, and statewide to 14,000 by the fall term of 2024. CWU assumes the bulk of future enrollment growth will occur online and at satellite locations.

Two key changes will affect facilities planning. The first is the shift in the demographic profile of the residents of the residential campus. Today, a third of CWU's enrollment is comprised of students of color. Increasingly, students will be of Hispanic origin, as this demographic is the fastest growing in the state, and also has increased participation in higher education faster than any other demographic group.

Second is students' preference to conduct most aspects of their lives—educational, social, and cultural—on digital platforms. CWU capital development must adapt to cultural and technological preferences and leverage these to enhance educational quality and access, while managing costs associated with technology investment.

The master plan assumes continued integration with city and county planning. Like these municipalities, CWU is looking ahead to plan to accommodate the demands of population growth. The affordability and bucolic nature of Kittitas County generally, and Ellensburg specifically, are increasingly attractive to individuals and businesses in neighboring King County. Intractable issues in King County are eroding quality of life for many residents, who may choose to move to Kittitas County to avoid traffic, skyrocketing home prices, and other growth-related challenges.

CAPITAL PLANNING PRIORITIES

The Capital Master Plan sets as priorities academic quality, aesthetics, pedestrian access, and sustainability, including preserving green space. The plan identifies top priorities for state construction funding as well as smaller, though critical, renovation needs.

For the first time, the Capital Master Plan incorporates residential needs. The plan states the intent to incorporate residential planning in overall long-term capital facilities planning. Other goals include ensuring that dining services are healthful and sustainable; that the university enhance accessibility, affordability, safety, and proximity to campus life; and that the university accommodates cultural preferences and needs in residential facilities. The plan envisions mixed-use development to accommodate affordable student and employee housing, as well as residential options for senior citizens.

The plan underscores the need to adapt nimbly to changes in technological platforms for secure and engaging student life, teaching and learning, and business functions. Where possible, these adaptations should generate value and foster data-driven decision-making.

Engaging and consistent gateways and borders are another priority. Goals include creating safe and welcoming routes from campus to key destinations; signage and gateway treatments that enhance university visibility and first impressions; campus borders that ensure safe and efficient travel, and consistent and pleasing aesthetic treatments; and accessible and consistent wayfinding.

PLANNING BY NEIGHBORHOODS

The Capital Master Plan values the preservation and stewardship that have maintained beautiful and historic buildings since the university's founding. It continues a commitment to the neighborhood structure of the overall campus and identifies challenges for each. All neighborhoods require standardization of security systems, expansion of chiller and boiler capacity, and elimination of backlogs in maintenance needs. Following is a summary of campus regions and the planning and development opportunities for each.

Central Campus

- Control flooding and access on the Ellensburg Water Company Irrigation Canal
- Renovate buildings north of the canal for seismic refitting, ADA compliance, HVAC upgrades, and energy efficiency
- Replace the International Center
- Expand and modernize the Student Union and Recreation Center
- Create storage space

East Campus

- Control flooding and increase daylighting on Wilson Creek
- Renovate or replace student housing
- Re-engineer and landscaping parking areas
- Create an arts neighborhood/complex that brings all arts programs in closer proximity to one another

North Campus

- Plan for undeveloped parcels of land
- Renovate Nicholson Pavilion
- Renovate airport facilities
- Replace Psychology facility

South Campus

- Create consistent campus borders and gateways
- Improve pathways from campus to downtown Ellensburg
- Renovate Munson Hall and the Getz-Short apartments

West Campus

- Replace boilers and expand chiller capacity
- Create strategies to mitigate impact to Wildcat Way with removal of mature trees
- Secure properties adjacent to Wildcat Way to ensure consistency in security and historic preservation
- Renovate or replace Button Hall, University House, the Public Safety Building, the Green Giant storage facility

RESOURCE DEVELOPMENT AND STEWARDSHIP

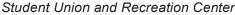
CWU fully embraces the notion of stewardship expressed in Theme 5 of the university's strategic plan. This commitment is evident in CWU's new approach to management and to the development and execution of the operating budget: Responsibility-Center Management and Activity-Based Budgeting. This commitment also is evident in the university's determination to build a decision-making infrastructure on secure, consistent, and accurate data.

The Capital Master Plan proposes to expand this rigor to capital facilities by reflecting ongoing budgeting of the true cost of acquisition and stewardship of state capital facilities: buildings, grounds, and infrastructure—including information technology. Acquisition of a system or facility implies costs for installing and deploying, using, upgrading, and maintaining the assets. The total life-cycle cost also must include the depreciation and replacement of furniture, fixtures, and equipment.

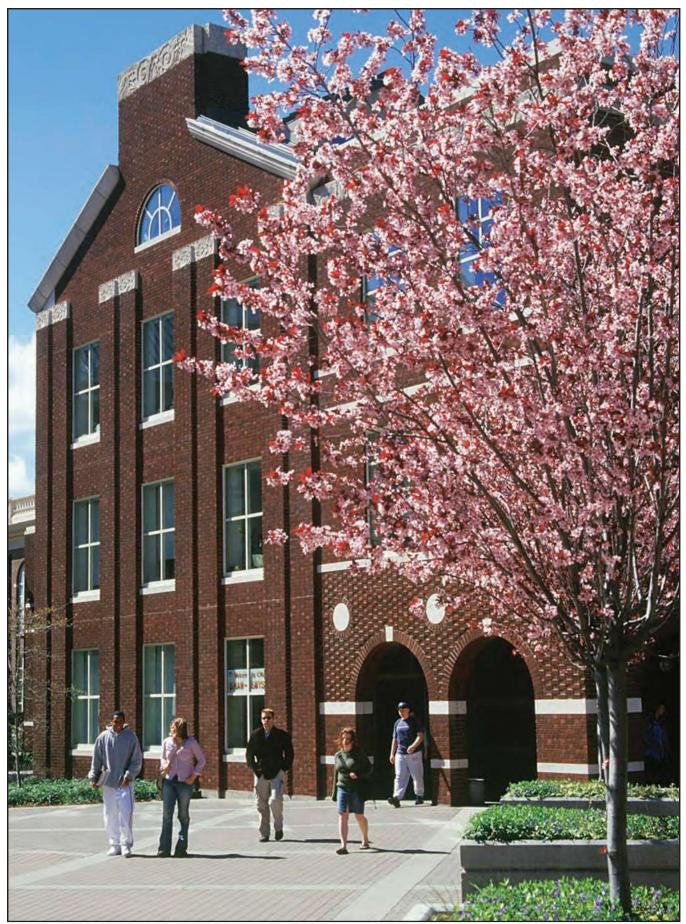
CWU has relied on the generosity of the state for the vast majority of capital improvements over the institution's 125-year history. However, the state has never been able to provide enough funding to fully fund university needs. CWU must develop additional revenue options to pay for the maintenance, renovation, modernization, and construction that the state cannot or will not support.

Key goals for enhancing stewardship and accountability include the following:

- Address deferred maintenance backlog
- Reflect the true cost of facilities in institutional budgeting and reporting
- Use life-cycle costing (LCC) as part of a systematic approach to balancing maintenance costs, operating costs, and replacement/refurbishment costs over the life of the asset.
- Develop new funding strategies for capital needs
- Develop replacement strategies for instructional technology







Shaw-Smyser Hall

CHAPTER 2. INTRODUCTION

LETTER FROM THE PRESIDENT

This Capital Master Plan presents a new integrated vision for Central Washington University, but it is a vision laid upon a 125-year foundation of stewardship, which is unparalleled in Washington.

This plan recognizes the importance and value of bringing forward state and institutional resources together to enhance the academic experience at Central Washington University. This new vision brings together state-funded facilities and those built by students, alumni, and the university's own financing strategies. It preserves a commitment to green space and historic buildings, while looking ahead to strategies that fully serve rich and rapidly evolving virtual pathways for teaching and learning. The fresh vision defines our borders and gateways, and it invites alumni and employees into residential living.

The 2019 Capital Master Plan presents a vision that embraces the real weight of stewardship. It acknowledges for the first time the responsibility to address long-neglected maintenance and modernization of the university's physical facilities. It requires that we recognize the true cost of building and maintaining a facility—and everything in it.

Although there is a time-frame affixed to this plan, a realistic assessment of its contents produces two apparently conflicting facts: that the plan will take far longer than 10 years to accomplish, and we must be prepared for its obsolescence every 24 months.

Our students are changing; race and ethnicity, income and education are shifting with each new class. Their expectations for campus life and for teaching and learning change as quickly as the technology that has informed their young lives. We must be prepared to anticipate the change within the historic and welcoming framework we know as CWU.

President James L. Gaudino

STRATEGIC PLAN

The CWU Strategic Plan is girded by five broad themes that manifest essential elements of the institutional mission. These five themes include:

- 1. Teaching and Learning
- 2. Inclusivity and Diversity
- 3. Scholarship and Creative Expression
- 4. Public Service and Community Engagement
- 5. Resource Development and Stewardship

Mission

The mission of Central Washington University is to prepare students for enlightened, responsible, and productive lives; to produce research, scholarship, and creative expression in the public interest; and to serve as a resource to the region and the state through effective stewardship of university resources.



Vision

Central Washington University (CWU) is a dynamic, creative, and inclusive environment that promotes engaged learning and scholarship. It is distinguished regionally for the rigor of its curriculum and scholarship, for the excellence of its pedagogy, for the vibrancy of its co-curricular and residential experiences, for its commitment to providing access to higher education, and for its efforts to advance the social and economic health of the region. It is typified by an entrepreneurial spirit that establishes it as a national leader in higher education. It has a strong commitment to engaged learning and scholarship, internationalism, sustainability, inclusiveness, and life-long learning.

Values

Central Washington University exists to advance society through the essential activities of teaching, discovery, and service. While no one of these core elements is meaningful in isolation from the others, CWU finds it necessary to prioritize its efforts in relation to its mission, vision, values, goals, and resources. In order to maximize the value of each of the elements of its mission, CWU emphasizes the integration of scholarship, teaching, and public service.

As a public comprehensive university, CWU strives to create an engaging learning environment and therefore places its highest priority on teaching, learning, and student success. The faculty is comprised of scholar-teachers working in the interests of their students, their disciplines, and the region. CWU encourages individualized programs of student success and promotes undergraduate and graduate student-faculty partnerships that are actively engaged in discovery, creative expression, and engaged learning.

As a community dedicated to the principles of academic freedom, CWU must be an environment that promotes reasoned, civil, and enlightened discourse and creative expression without fear of reprisal, ridicule, or exclusion. CWU's educational environment must empower each person with the freedom to explore, to evaluate, and to learn.

CWU must also strive to serve its region by addressing pressing economic and social issues. As a comprehensive university, CWU must use its intellectual capacity not only to contribute to disciplinary literatures, but also to assist area business, social, and government leaders in strengthening and diversifying the area's economic base, to help create a sustainable natural environment, and to address critical social issues.

CWU is also a place where people gather to live and to work. It must therefore be a place that enables people to grow and to prosper. In keeping with the academic values of shared governance and reasoned dialogue, the university must be open, transparent, and empowering.

It follows, then, that CWU is committed to the following shared values:

Student success: CWU believes that student success is best achieved by providing supportive learning and living environments that encourage intellectual inquiry, exploration, and application. CWU believes that learning is best achieved in small classroom or group settings with ample opportunities for individualized instruction, mentoring, advising, and programming.

Access: CWU believes in providing educational opportunities to as many qualified students as possible. CWU believes that restrictions of place, time, and finances can be overcome through the effective use of partnership with community colleges and by effective and efficient use of learning, communication, and social technologies.

Engagement: CWU believes that learning, research, and creative expression are enhanced by engagement with external partners. CWU believes that as a publicly-funded institution, it has a responsibility to help address the social and economic challenges faced by our communities.

Inclusiveness: CWU believes that diversity of peoples, cultures, and ideas is essential to learning, discovery, and creative expression. CWU believes that all faculty, staff, and students must be and must feel physically, professionally, and emotionally safe in order to fully engage in and benefit from the university experience.

Shared governance: CWU believes that shared governance is most effective when information systems and decision-making processes are both robust and transparent. CWU believes that communication channels should be open and two-way and that faculty, staff, and students should be empowered to participate in the governance systems.

Facilities: CWU believes that state-of-the-art, safe, and attractive facilities enhance the working and learning environments of faculty, staff, and students. CWU also believes that state-of-the-art technologies provide leverage for the efforts of faculty, staff, and students.

Safety: CWU believes it has a responsibility to providing a working and learning environment that is both physically and emotionally safe. CWU believes this responsibility extends to the off-campus environment of its full-time, residential students.

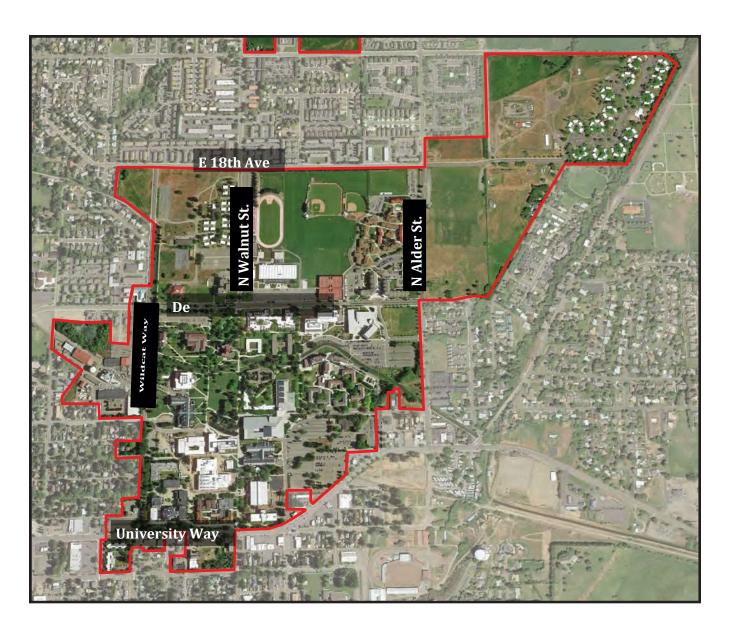
CAMPUS SETTING AND HISTORICAL DEVELOPMENT

The residential campus of Central Washington University is located in the City of Ellensburg, in Kittitas County, in the center of Washington State and adjacent to the populous and rapidly growing King County. In March 2018, the US Census Bureau named Kittitas County the eighth fastest-growing micro-area in the US by percentage, with population growth of 2.8 percent between 2016 and 2017.1

CWU owns 380 acres of land, 255 of which are developed. The campus has 94 facilities totaling 3.2 million gross square feet (GSF). Fifty-nine buildings are non-residential facilities (2.1 million GSF) and 35 are residential facilities (1.1 million GSF).

The campus is located within walking distance of Ellensburg's historic downtown. Ellensburg, a town of about 20,000,2 is the largest city in Kittitas County and the county seat. Ellensburg is located at the junction of Interstate 82 and Interstate 90, which is the primary vehicle route between western and eastern Washington.





The Cascade Mountains block rain from the Puget Sound area, which results in a dry, mild climate with fewer than 10 inches of precipitation per year. The city's terrain is generally flat with an elevation between 1,500 and 1,580 feet above sea level.

Historical Development

The City of Ellensburg was established in 1872. In 1890, during the Washington State Legislature's first session, Ellensburg was chosen as the site of the Washington State Normal School with a mission of educating public school teachers. Classes began in 1891 and were held at the Washington Public School until the normal school's first building, Barge Hall, opened in 1893. The normal school became Central Washington College of Education in 1937, Central Washington State College in 1961, and Central Washington University in 1977.

Historic South Campus

The original campus was comprised of about two acres between E. University Way and 10th Avenue, and between D Street/Wildcat Way and Chestnut Street. This part of campus possesses an architectural character with a coherent style, scale, and quality of space between buildings. The oldest portion of campus is denser than the rest of the campus, and includes academic, administrative, and student residential buildings. Large building setbacks from E. University Way and D Street with mature trees provide an attractive soft edge for the community.

Construction of the university's historic buildings occurred primarily in the south and southwest area of today's campus, between 1893 and 1938. Classical façades on Shaw Memorial Hall (now Shaw-Smyser Hall) and McConnell Auditorium,

were acquired for single student housing.

along with Barge Hall's neo-gothic style, provide visitors with an immediate sense they are entering a campus environment. Well defined courtyards and intimate outdoor spaces act as meeting places, transition zones, and weather shields. The entire area is interconnected with walkways lined with buildings or trees. The historically significant buildings with generous set-backs, many entry points, and courtyard spaces welcome visitors, faculty, and staff with a collegiate environment.

During the early 1900s, the northern boundary of the campus abutted the right-of-way of the Chicago, Milwaukee, and St. Paul Railroad. This rail line, which extended in a northwest-southeast direction, was heavily used throughout the mid-1900s. As the university grew, it was necessary to develop property located north of the railroad corridor, which became an obstacle to coordinated campus development. The layout of the campus shows evidence of the effect the railroad had on the development of the campus: parking lots abutted the corridor, walkways were located to avoid it, and buildings were situated to face away from it.

Year Constructed	Building Name
1894	Barge Hall
1915	Kamola Hall
1918	Edison Hall
1919	Old Hospital
1925	Shaw Hall
1926	Samuelson Union Building
1927	Munson Hall
1927	Sue Lombard Hall
1935	McConnell Hall
1938	Hebeler Hall

Post-war Construction

Following World War II, like many colleges and universities, CWU experienced a significant surge in enrollment. For example, enrollment in the College of Education reached 1,558 in 1949-1950, well beyond the 268 who had enrolled in 1943-1944.

The physical plant expanded to accommodate the new demand for higher education, acquiring agricultural land north of 14th Street for married student housing and physical education activities. Smaller parcels

Year Constructed	Building Name
1945	Campus Courts Apartments
1946	Auxiliary Services Maintenance
1947	Lind Hall
1947	President's Residence
1948	Special Services Building
1951	Tunstall Commons Dining
1955	Computer Center
1955	Wilson Hall
1957	Recreation Center
1959	Button Hall
1959	Nicholson Pavilion
1959	Tomlinson Stadium

railroad tracks.

State funding during the 1980s and 1990s brought about many renovations and general-improvement projects, including a new boiler plant and parking lot expansions.

The Building Boom

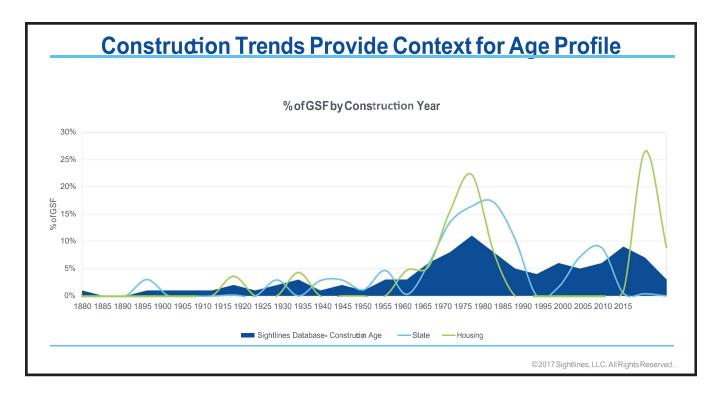
From 1960 to the turn of the century, CWU would construct more than 60 facilities, including 24 residence facilities, 16 academic buildings, and

The rapid growth resulted in a campus without a cohesive pattern of development. University properties were intermingled with private properties, the functions of which ranged from mixed use to railroad warehousing and agriculture.

In the 1960s, capital master planning was influenced by Congress's adoption of a series of fair housing policies designed to outlaw discrimination in the rental or purchase of homes and other housing transactions. The university, in cooperation with the City of Ellensburg, launched the North Campus Urban Renewal Project to draw these properties together into approximately 40 acres, split by the railroad tracks. Benefits of the project included:

- rerouting and extending city utilities
- rerouting streets around the campus and closing other streets that bisected the campus
- demolishing obsolete private structures
- installing parking areas, pedestrian walks, malls, and landscaping

In 1986, after the railroad abandoned the right-of-way through campus, CWU developed a Capital Master Plan to address the development of the corridor and the campus north and south of the



several facilities to support campus infrastructure. Generally, the academic buildings constructed during this period are unreinforced brick construction with little insulation, and digital technology infrastructure consistent with the era in which the building was constructed. Other facilities include modular buildings, storage sheds, and structures intended for temporary use. In other words, this generation of facilities supports limited digital technology access or use and has architectural features that limit disability access. Most of these buildings, however, are still in use, and the need to upgrade or replace them is increasingly urgent.

21st Century Capital Change

The 21st century began with the completion of several new, renovated and or expanded academic and student-life facilities. Much of the construction supported campus planning goals to create a "science neighborhood," where clustered facilities could support student and faculty collaboration, sharing of space, and other efficiencies.

Projects completed during this period include the renovation of Dean Hall; construction of McIntyre Hall, the Student Union and Recreation Center, and Science II; restoration of three, early 20th century buildings—Kamola Hall, Sue Lombard Hall, and Barge Hall; the replacement of Barto Hall; and the renovation of, and addition to, Samuelson Hall. Several of these facilities earned bronze, silver, or

Year Constructed	Building Name
1998	Science I Building
2001	Academic Storage Shed
2004	McIntyre Hall
2011	New Barto Hall
2011	Hogue Addition
2016	Science II
2018	Recreation addition/ track facility
2018	Tomlinson Stadium upgrade
2018	Samuelson Hall renovation and addition
2019	Dugmore Residence Hall and Dining Facility
2019	Health Sciences Phase I

gold certification for sustainable construction by the Leadership in Energy and Environmental Design (LEED) program. Dean Hall earned gold, Hogue Hall earned gold, and Barto Hall earned a platinum designation.

In 2018, CWU launched three projects that will radically transform the portion of campus north of Dean Nicholson Boulevard. In late 2018, construction will begin on Dugmore Hall, 400-bed residence hall



Architect rendering of Dugmore Hall scheduled to open in fall 2019.

and 6,000 sq/ft dining facility at the northeast corner of the intersection of E. Dean Nicholson Blvd and N. Wildcat Way. CWU will use a design-build approach for this project, which is expected to reduce costs and construction time by three months, opening in fall 2019. The northern academic corridor of campus will be transformed with Dugmore Hall, the Recreation Expansion project, additional parking lot, and the demolition of Chimpanzee and Human Communication Institute (CHCI) and Peterson Hall.

The CWU Foundation is supporting a renovation of Tomlinson Stadium, which was constructed in 1959 and has not been renovated since the early 1990s. The renovation moves the track and makes the stadium regulation size for rugby and soccer, as well as football. The project upgrades perimeter fencing and restrooms and adds artificial turf and lights.

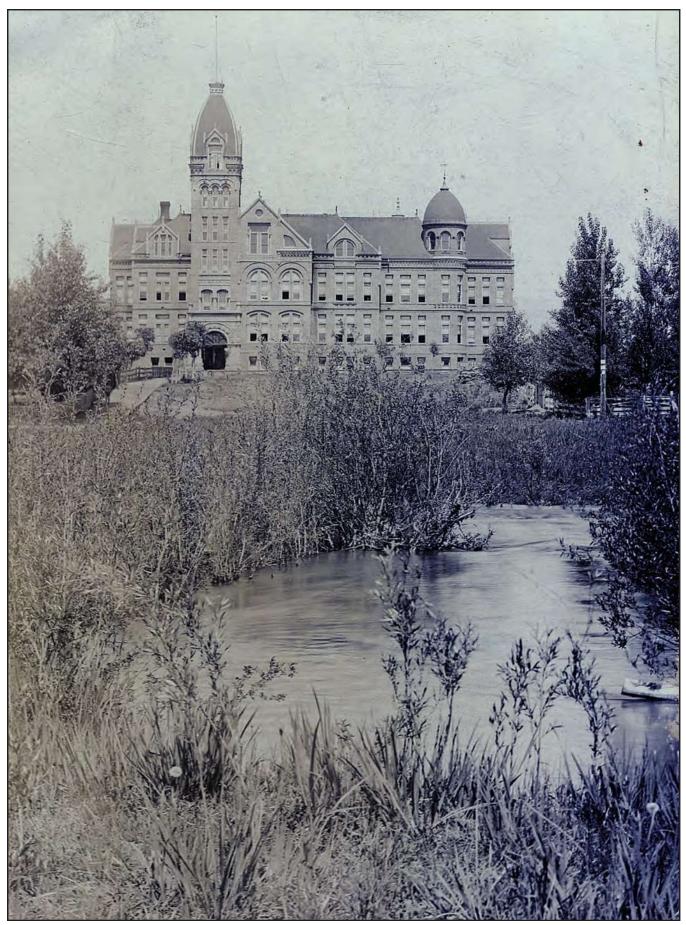
The \$6-million Recreation Expansion project will build a track facility in the southeast corner of North Wildcat Way and 18th Avenue, replacing the deteriorating, 25-year-old track in Tomlinson Stadium. The expansion, the first new recreation facility since the construction of the SURC in 2006, will include lighting, perimeter fencing, and turf inside the track and will provide a much-needed expansion of recreation services outside of the overcrowded SURC.

During this period, CWU demolished four facilities: two high-rise, residential structures, Courson and Muzzall Halls; Peterson Hall; and the facility that had housed the Chimpanzee and Human Communication Institute. In 2019, Hertz Hall will be demolished.

Architect renderings of Tomlinson Stadium upgrade (left) and recreation addition/track facility (right).







Barge Hall, circa 1900

CHAPTER 3. MASTER PLANNING **ASSUMPTIONS**

From its founding in 1891, CWU has experienced substantial change in enrollment and the focus of instruction. The surrounding community has also changed. The goal of this Capital Master Plan is to provide a framework within which the university can change and grow as needs evolve. The plan reinforces and improves upon existing patterns of use by integrating buildings, circulation, parking, infrastructure, sustainability and open space.

Community input is essential to capital planning. The 2011-2031 master plan process sponsored numerous open forums that allowed the university and local communities to provide input into the master planning process:

- 2006 Planning Rendezvous³
- 2009 Project Planning Rendezvous⁴
- 2010 Winter Campus Planning Rendezvous⁵
- 2013 CWU/City/County/County Planning Forum⁶
- 2018 Enterprise Facilities Committee, Budget Enterprise Committee, Provost's Council, President's Cabinet, Associated Students of CWU

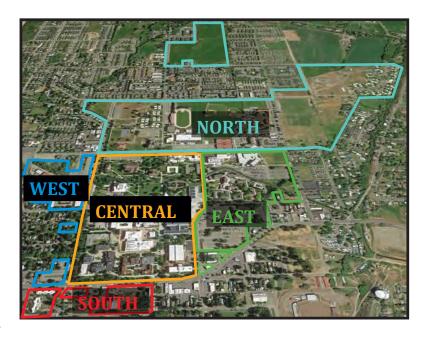
The master plan and accompanying documents, along with the interactive online map are located at www.cwu.edu/facility/master-plan and map.cwu.edu respectively.

PLANNING BY **NEIGHBORHOODS**

During the 2000s, CWU has developed the campus in terms of neighborhoods, each with its own distinct character, dominant uses and proximity to related functions. New developments are designed to complement the neighborhood in which they are situated and to enhance the integrity and connection with the campus as a whole. The following describes these planning units.

CENTRAL CAMPUS

Central Campus contains the historic core, with original buildings and welldefined open spaces. This neighborhood is distinguished by high-use academic facilities and by the massive Student Union and



Recreation Center (SURC). The neighborhood has a strong collegiate and student-centered atmosphere that offers multiple opportunities for formal and informal, social and academic encounters. This area includes gathering

spaces, study areas, networked computer and other media areas, group/meeting rooms, the Wildcat Shop, and food options, in addition to well-integrated open space and classrooms.

At the north end of the Central Campus, open spaces such as the Campus Green and the Ellensburg Water Company Irrigation Canal are major organizing elements that contribute to the unique character of large, dominant buildings sitting in a field of green.

The Marshall Mayberry Arboretum and Greenhouse west of Dean Hall were built in 1979 and offer a tranquil space that is heavily utilized for lunches and picnics as well as by various academic classes. The adjacent Greenhouse is also utilized in plant biology courses. The Greenhouse is home to CWU's unofficial turtle mascot, Snorkel.



Neighborhood challenges

In the spring the canal typically experiences moderate flooding, which has been mitigated using sandbags. The banks of the canal do not prohibit access. Buildings north of the canal generally are in need of significant renovation: seismic, ADA, HVAC, and energy efficiency. The International Center is in need of replacement. It was built in 1948 as a residence hall and remodeled in 1970 to house international programs.

Premier performing arts programs are at record enrollment and fully utilize rehearsal, performance, and classroom space. In January 2019, CWU will demolish Hertz Hall, eliminating an important, albeit old, performance venue.

The SURC is out of room; it was built for about 7,600 FTE students and now serves 9,500 FTE, in addition to members of the community, conference participants, and others. On a single day in fall 2017, the building recorded more than 18,000 visitors. Need is especially critical for space to accommodate student organizations and multicultural activities.

SURC Dining Service facilities have not been updated since the building was finished in 2006. Much of the equipment is aging and in need of replacement. Dining concepts should be continuously updated in order to reflect students' changing needs and expectations. CWU will incorporate innovative approaches to dining planning, including exhibition cooking, healthful and local options, sustainability, and branded concepts.

The convenience store is heavily utilized and is in need of expansion and renovation to fix problems of access and business flow and to meet the demands that this unit serves. The layout of dining areas does accommodate customer traffic flow patterns.

The current dock located on the south side of the SURC needs to be adjusted to allow for large truck deliveries. Access to the dock by the rest of the building for trash removal is limited and needs to be addressed in any future expansion/renovation plans.

The Wildcat Shop continues to innovate business strategies and to change the retail mix to adjust for changes in technology, and student preferences for service delivery and products. In 2018, the Wildcat Shop became the home of the Central Access program, which creates course materials for disabled students at CWU and universities across the country. The program also contracts for services for private companies that need accessible materials. The Wildcat Shop's "Mad Lab" provides signage and engraving services. In order to be financially viable, the Wildcat Shop will have to adapt rapidly to changes in shopping preferences, especially as the demand for traditional course materials declines.

All departments in this neighborhood need storage space. Access and security is inconsistent from building to building. All buildings have unmet maintenance and programmatic needs.

NORTH CAMPUS

This neighborhood north of E. Dean Nicholson Boulevard contains athletic and recreation facilities, including a new track facility and renovated stadium, slated for completion fall 2018. Dugmore Hall on the west side of this neighborhood will open fall 2019. Further north lies Bowers Field Airport, on which CWU leases or owns classroom and hangar facilities. The eastern portion of this neighborhood hosts many other residence halls and apartments, as well as recreation facilities, open space and some academic and research functions.

In the 2015-2017 biennium, the state legislature appropriated \$750,000 to expand the Early Childhood Learning Center near Brooklane Village. The project added a multi-purpose modular facility for indoor recreation space and afterschool classroom space, an audio-video system and key-card access for enhanced security.

The Palouse to Cascades State Park Trail crosses this neighborhood, providing biking, walking, and other uses on property that was once part of an intercontinental rail line. The North Campus is a ten-minute walk from the core university functions in the Central Campus Neighborhood.

Neighborhood Challenges

The neighborhood includes large tracts of undeveloped land, including 35 acres west of the Brooklane Village and 52 acres north of Helena Avenue. The Helena parcel is located in the county.

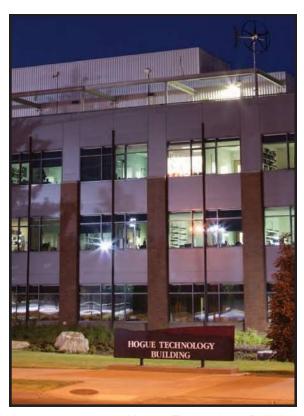
Recreation facilities will be created in 2018 using student recreation fee revenue; an overhaul of Tomlinson Stadium will be funded by the CWU Foundation. However, significant renovation work is needed on Nicholson Pavilion.

CWU's physical and health education programs are located in the east wing of Nicholson Pavilion, which was constructed in 1959 as the Health and Physical Education building. The total enrollment at CWU (then "Central Washington College of Education") was fewer than 1,900 students in 1959. Today, the facility annually serves 10,000 students, nearly 2,000 employees and almost 40,000 visitors. Renovation of the portion of the facility serving academic programs is a priority for CWU's 2019-2021 state capital budget request. Nicholson Pavilion once hosted commencement and other all-student events, but now is far too small to accommodate large student events. CWU currently has no indoor facility that can accommodate large academic, athletic, or cultural events.

Airport facilities will not accommodate enrollment anticipated for the BS Aviation program. Coordination of maintenance and expansion of the facilities at the airport are complicated by virtue of the fact that the airport is owned by the county, which has not prioritized maintenance of the hangars, office space or runways. In spring 2018 CWU is engaged in intensive negotiations with the county to improve airport operations and perhaps assume co-sponsorship.



Looking west along Dean Nicholson Blvd., at the northeast corner of campus.



Hogue Technology Building

EAST CAMPUS

Parking and student housing are the predominant uses east of Chestnut Street and south of Dean Nicholson. McIntyre Hall and Hogue Hall are also in the East Campus on Dean Nicholson Boulevard. The Student Medical and Counseling Center is located on 11th Avenue, south of the Bassetti residential complex. Parking is convenient and accessible in this area of the campus. In 2018 CWU purchased a restaurant located at E. University Way and Chestnut.

Neighborhood Challenges

This neighborhood has an established network of open space and pedestrian paths that run from the Ellensburg Water Company Irrigation Canal and Wilson Creek to campus buildings. Wilson Creek flows above and below the ground in this neighborhood. The creek often floods in the spring and presents accessibility, utility, and safety challenges.

A significant portion of student housing lies in this neighborhood. Except for Barto Hall, replaced in 2011, all of the student housing is in need of renovation or replacement, having been constructed between 1955 and 1969.

The south and east edges of this neighborhood include parcels that do not enhance the identity, safety or accessibility of the campus. A privately-owned residence and an apartment complex present concerns about security and visual consistency. A large amount of surface parking in the east campus overwhelms the character of the area. The parking lot border with E. University Way is neither landscaped nor well maintained.

CWU's growing arts programs are located in Randall Hall, in critical need of renovation, and in McIntyre Hall, which the music program outgrew as soon as the building was constructed in 2004. CWU needs to create an "Arts Neighborhood"/complex that brings all arts programs in closer proximity to one another.

SOUTH CAMPUS

This neighborhood, south of E. University Way, is comprised of a mix of uses and buildings. In contrast to the distinctive character of the campus across the street, buildings are typically less notable, with the exception of Munson Hall, the first men's dormitory, and Getz-Short Apartments.

The Old Heat Plant is the third in a series of four university boiler plants. The second boiler house for the Washington State Normal School was built circa 1917. Old Heat's towering brick smokestack was built in 1917 in New York, shipped to Ellensburg, and added to the facility. At 112 feet, the stack is a visual landmark with an elaborate patterned band of white brick diamonds and stripes near the top. In 1944, this second boiler house was demolished, but its smokestack was retained for use in the next boiler plant, constructed in 1948 and mothballed in 1971 until 2016, when funding became available to begin renovation of the old plant.

Old Heat Plant smokestack



South Campus should be developed with the classic collegiate CWU style, yet also be functionally tied to public uses and downtown Ellensburg. Mixed-use buildings will be encouraged by combining business, parking, and residential functions, with pedestrian-oriented uses at the street level. Self-supporting public uses such as hospitality/conferencing should be encouraged.

Neighborhood Challenges

CWU desires but does not have a well-defined campus border and entrance. The blocks leading to CWU, traveling east on E. University Way, and across from CWU on that street are occupied by vacant lots, vacant buildings, and assorted retail and residential structures.

The City will expand the intersection at E. University Way and Wildcat Way in summer 2019. CWU is working with the City to mitigate the impact of that project on the presentation of this key gateway.

CWU desires but lacks a clearly defined path between the campus and downtown Ellensburg. Such a route would offer well lit, safe walkways. It would promote participation in community events, civic engagement, and richer social development.

Munson Hall and the Getz-Short apartments are in need of significant renovation and remodeling in order to accommodate fully the digital communications needs and amenities that are standard in conference and student facilities.

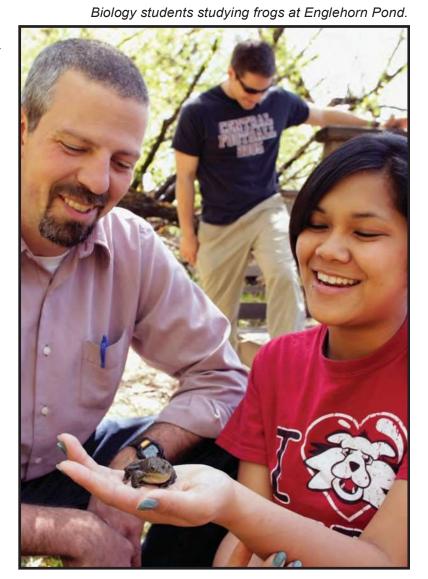
WEST CAMPUS

This neighborhood lies west of Wildcat Way and is largely focused on physical plant service, ranging from the boiler plant and trash compactor, to the maintenance shops, and facilities administration in Jongeward Hall. The Department of Public Safety and Police Services is located in a modular structure. The environmentally sensitive Englehorn Pond is located west of these facilities and is used by CWU for research and instruction in the biological sciences.

University House is located south of the physical plant, at 10th and Wildcat Way, and is part of the Railroad Addition Historic District. The facility houses the president's family and hosts campus events. Button Hall provides space for student housing services. Between Button and E. University Way, lies university parking. Other than university facilities, well maintained historic homes generally line the west side of Wildcat Way. This street is lined on both sides with graceful, mature trees: 35-foot lindens and American elm trees that are 65 feet tall.

Neighborhood Challenges

CWU's boilers are now more than 50 years old and in need of replacement. The chiller is overtaxed and needs to be supplemented.



The projects currently underway in the North Campus (new residence hall, recreation track relocation, and improvements to Tomlinson Stadium) are driving improvements to Wildcat Way from E. University Way north to Dean Nicholson Boulevard. That project, as well as concerns about emergency vehicle access to the CWU campus, will eventually result in the widening of Wildcat Way, and the removal of the large shade trees that line Wildcat Way in this iconic neighborhood.

The City is planning a transportation improvement project, which will be implemented in summer 2019, at the intersection of E. University Way and Wildcat Way. The project includes street alignment, traffic signalization, tree removal, and adding left-turn lanes. As a result, CWU will lose parking in lot C-6, need to move cement monuments that serve as gateway signs, and re-landscape at least two corners of this intersection.

CWU does not control all of the properties adjacent to Wildcat Way, raising concerns about continued security and historic preservation.

Most of the facilities west of Wildcat Way are in need of attention or replacement.

- **Button Hall** was built in 1949 as an apartment building, but has been used as office space for the Department of Residence Life for many years. All systems in the building are original to construction in 1949 and the building does not meet ADA or seismic codes. This facility is at the end of lifecycle.
- University House was built in 1947 as a residence; the reception center was added to the building in the 1960s. Now it is neither an effective reception facility or hospitable residence, since the family that lives there will have events going on in the front yard and/or adjacent rooms throughout the year. Nationally, fewer and fewer universities require presidents to live on campus. CWU may wish to offer the next president the option of living in this reception center or at another location.
- The Public Safety Building, which houses Police and Safety Services, was a portable unit used for construction offices during the renovation of Black Hall in the 1994. All building systems are original and the facility was not designed for the functions for which it is being used. This facility is at the end of its life cycle.
- The Green Giant storage facility sits on the highly visible corner of 11th Avenue and Wildcat Way. It was constructed in 1937 and is particularly inadequate in seismic reinforcements, with virtually no lateral support. This facility is at the end of its life cycle.



INFRASTRUCTURE

CWU conducts master planning and manages the physical plant in compliance with RCW 39.35D, which directs public agencies to build and renovate public facilities in a way that saves money, improves educational outcomes, and makes employees more productive. CWU exceeds the requirements of this RCW and, as a result of prioritization of sustainability efforts, has achieved the following:

- Implementation of heat recovery solution that allows CWU to heat more than 100,000 square feet of space in Science II and 135,000 square feet in Samuelson solely from the recovery of the waste heat from the central steam plant.
- Recycling construction waste diverted more than 90 percent of construction debris, or 12,800 tons from landfills.
- Reduction in the use of water for irrigation by five million gallons annually.



Work on "utilidors" near Dean Hall.

Much of this improvement has been made possible by the investment of the State of Washington in CWU infrastructure. Between 2009 and 2015 CWU received about \$24 million in state funding to upgrade underground utilities. CWU replaced 90-year old wooden water pipes, consolidated utilities in "utilidors," upgraded water- and energy-efficiency strategies, and made other improvements to support the growth of enrollment and in facilities above the ground.

Energy Efficiency

Since 1998 CWU has used the energy service company8 (ESCO) contracting methodology to analyze and complete extensive energy efficiency improvements to HVAC and lighting systems. The ESCO starts by performing an in-depth analysis of a property, and then designs an energy-efficient solution. CWU installed the required elements and maintained the system to measure energy savings, which may be used to pay back the capital investment of a project over a 5- to 20-year period. Savings also may be reinvested into the facility in the form of capital upgrades that otherwise would be unfeasible.

If the project does not provide returns on the investment, the ESCO is often responsible to pay the difference. As result of these efforts, CWU reduced total energy consumption by 14 percent from 1998 to 2011, despite a net increase in campus building area of 300,000 square feet during the same period. By saving \$15 million over the next 20 years, this project supports all university capital facilities and the programs they support. Savings will be invested in utilities and facilities to preserve and enhance them.

In 2018 the university launched a new, campus-wide sustainability initiative to better coordinate efforts to save energy, reduce greenhouse gas emissions and waste production, and to enhance community awareness about the need to use current sustainable practices in all areas of university operations, as well as develop new ones. The initiative will also work toward the certification by the Association for the Advancement of Sustainability in Higher Education (AASHE) as a member of the Sustainability Tracking, Assessment & Rating System (STARS) program. STARS is a transparent, self-reporting framework for colleges and universities to measure their sustainability performance.

In 2018 CWU will implement an enterprise-wide, Voiceover Internet Protocol (VoIP) telephony system. CWU must transition away from its dependence on legacy systems and modernize our telecommunications architecture. This need is driven by both the financial realities and risks associated with maintaining legacy systems and the importance of building a modern and unified communications platform to support teaching, learning, and student success. This modern approach to telecommunications will also facilitate a much more agile telephony environment that scales up or down easily and integrates seamlessly with our other business systems.

Infrastructure Challenges

The Central Heating plant is nearly 50 years old and consists of four boilers that have the ability to supply nearly 180,000 lbs. of steam to the campus of typical demand and 210,000lbs maximum. Over the years much has been done to upgrade and improve the control systems and ancillary support equipment in the plant. Routine maintenance has been performed regularly; automated water treatment systems have been installed to decrease the effects of corrosion and increase boiler efficiencies within the plant. State-of-the-art controls have been added to increase the reliability and safety of the boilers.

Today, however, boiler capacity has fallen significantly due to the aging of the boilers themselves. Although meticulous care has extended the life of the boilers, they are at the end of their life expectancy. Replacing the boilers is a high priority so that CWU can maintain current steam loads and plant expansion. Replacement of the boilers and a chiller will be priorities in CWU's 2019-2021 state capital budget request.

The use of low-temperature heating water should be a priority as the cost to maintain the existing steam boilers increase. This would require adding underground infrastructure for transporting low temperature heating to areas and facilities including Farrell Hall, Brooks Library, and Psychology. The low temperature heating water distribution was planned and is currently set up for northward expansion from the Science I lawn vicinity. As well, CWU must prepare to adapt to more efficient and sustainable methods of heating, including alternative energy sources such as solar heating, solar photovoltaic cells, central plant steam-generated electricity, and wind power.



Central Plant steam and low temperature heating water system.

ENROLLMENT ASSUMPTIONS

The number of students enrolled at CWU has remained relatively constant since 2010. During the 2017-2018 academic year, CWU's average annual FTE enrollment in Ellensburg and online was 11,007.71; average headcount was 9,4539. About 13.78 percent of the total enrollment is online or located at a CWU campus other than Ellensburg¹⁰. Six of eight satellite locations are on community college campuses in space owned by the colleges, not CWU. One site is in Lakewood, at Joint Base Lewis-McChord, which owns the space. An instructional site is located in Sammamish, where CWU leases space from the City of Sammamish.

CWU will strive to grow headcount enrollment at the residential campus to 12,000, and statewide to 14,000 by the fall term of 2021. Undergraduates will comprise 90 percent of FTE with graduate students comprising 10 percent.

In addition to academic degree programs, CWU will serve individuals through programs in continuing education, course audits, military science, dual-credit programs, and other education options. CWU assumes the bulk of future enrollment growth will occur online and at satellite locations, few of which CWU is likely to own. Therefore, this long-term plan reasonably focuses on physical space over which CWU has control, the residential campus in Ellensburg.

In order to ensure comprehensive service to students, CWU must develop the physical plant in a way that encourages the engagement of students in athletic and recreational events, academic and cultural lectures, and events. The capital plant should support student safety, mobility, and engagement with each other and with the community. As the cultural and social backgrounds students bring to campus change, so must CWU's approach to education, including educational facilities.

CWU already has experienced significant change in the demographics of students. Today, a third of CWU's enrollment is comprised of students of color. Increasingly, students will be of Hispanic origin, as this demographic is the fastest growing in the state, and also engages in higher education faster than any other demographic group 11. CWU's residential campus is situated in a region in which Hispanic population is increasing faster and comprises a greater portion of the general population than any other region in the state. CWU represents a welcoming, affordable, and geographically accessible higher education alternative for all students in this region.

A defining characteristic of undergraduate students is the desire to conduct most aspects of their lives educational, social, and cultural—on digital platforms. Demand for digital access to degree programs has increased accordingly; online majors tripled between 2010 and 2017. Online course enrollment is up, with 2,028 or 20 percent of CWU students—including those who live on campus—taking one or more courses online. As well, the majority of academic courses include some component of the course online: e-learning platform, tests, discussion groups, recorded lectures, conferencing, etc. CWU capital development must adapt to this digital preference and leverage it to enhance educational quality and access, while managing costs associated with technology investment requirements.

STATE PUBLIC POLICY ASSUMPTIONS

CWU adheres to the long-range approach to facility planning the state requires of all public colleges and universities. The state process includes the development of a ten-year (five-biennia) plan for capital investment. The long-range planning identifies future institutional needs and the capital projects required to address those needs. The Capital Master Plan provides a blueprint for CWU's 10-year capital plan, which is updated every two years.

Development of the capital plan is a cyclical process. The 10-year capital priorities list, and the Capital Master Plan are continuously updated to reflect maintenance, preservation, and programmatic needs. In the spring of even-numbered years, the state biennial request is submitted to the Board of Trustees for consideration and approval; in the fall the university submits formal budget proposals to the state budget office. The proposals are scored and go forward to the governor and legislature for consideration in January of odd-numbered years, when the state crafts biennial budgets.

Since 2005, biennial state capital planning has focused on infrastructure upgrades and on consolidating the functions of the College of the Sciences into a science neighborhood. Within the 10-year time frame this plan encompasses, CWU has earned the support of the state legislature for several major projects:

- **Hogue Hall renovation and addition:** 2009-2011 (\$27 million) The project opened in fall 2011, having renovated a 1970s, applied engineering building and constructed a state-of-the-art addition to the facility.
- Science Phase II: 2013-2015 (\$64 million) The facility opened fall 2016, and houses the Department of Physics, the Department of Geological Sciences, and the Center for Excellence in Science and Math Education.
- **Combined Utilities:** 2009-2015 (\$32 million) This project upgraded utility infrastructure campuswide, significantly reduced energy consumption, and expanded steam heat, chilled water, and information technology infrastructure to Science II and Samuelson.
- **Samuelson Hall:** 2015-2017 (\$54 million) This project opens fall 2018 and includes renovation and new construction to accommodate computational sciences, as well as the data center.
- **Health Sciences:** 2017-2019 (\$58 million) In January 2018, the state provided \$23 million funding for phase 1 of a facility to house programs in Public Health, Nutrition and Dietetics, Clinical Physiology and Exercise Science, and Emergency Medical Services. The project assumes the demolition of Hertz Hall, a music facility constructed in 1963.

CWU will seek funding for the second phase of the Health Sciences project in the 2019-2021 biennium, which would complete the science neighborhood. Next, CWU will turn the state-funding focus to facilities north of the Ellensburg Water Company Irrigation Canal.

State Funding Challenges

The facilities north of the canal generally are in need of significant renovation: seismic, ADA, HVAC, digital technology, and energy efficiency. These buildings tend to serve the humanities and social sciences, academic fields that have not typically attracted legislative interest. The university is shifting the planning for academic buildings away from discipline-specific foci to space that is integrated, multidisciplinary, and flexible. This new focus, however responsible and efficient, is outside of the box within which state capital funding has traditionally occurred and may find difficulty attracting legislative interest.

CITY AND COUNTY PLANNING

Washington State Growth Management Act (GMA), RCW 36.70A seeks to mitigate the impact of uncoordinated growth on public health, safety, and general welfare. The Act lists 14 planning goals for those counties and municipalities planning under the GMA's requirements. The CWU Capital Master Plan seeks to complement goals and objectives of the Ellensburg Comprehensive Plan, and the 20-year comprehensive plan of Kittitas County, both of which were updated in 2017.

City of Ellensburg Comprehensive Planning Context

Increased integration of capital planning focuses on strengthening the link between CWU and historic downtown Ellensburg, which is the heart of the community's commercial, civic, social, and cultural life. The interrelationship between the campus, the community, and downtown Ellensburg is also an important aspect of the plan. In addition, improvements to interaction, and the sense of community, are proposed by increasing pedestrian linkages, improving existing facilities, siting new development where appropriate, and strengthening open space.

The City of Ellensburg adopted a new comprehensive plan in 2017. The plan shapes the city's zoning and subdivision regulations, capital improvement programming and budgeting, and other legal and regulatory actions



Panoramic view of the northwest corner of the Green.

necessary to manage Ellensburg's physical, social, and environmental character. The full range of the city's implementation tools must be consistent with this plan. This plan contains the following elements:

- Capital Facilities and Utilities *
- Economic Development
- Essential Public Facilities *
- Historic Preservation
- Housing *

- Land Use *
- Natural Environment
- Parks and Recreation
- Transportation *
- * Those elements that are required by the GMA.

Central Washington University and the City of Ellensburg participate with each other in reviewing and updating their respective long-term plans following state statutory comprehensive planning requirements. A city representative is a member of the university's campus planning standing committee.

The updated City of Ellensburg Comprehensive Plan references CWU 45 times, recognizing the university's significance in each of their planning elements. For example, because CWU is a major presence in Ellensburg, the median age of the city has remained very young and fairly consistent. CWU students make up about half of the population of Ellensburg. 12 The projected Ellensburg enrollment over the next ten years is consistent with the overall population projections for the City. The city plan estimates that nearly 50 percent of households in Ellensburg are CWU students living off campus, either living alone or sharing apartments or single-family homes with other students. More than two thirds of households in Ellensburg have only one or two occupants. 13

Kittitas County Comprehensive Planning Context

The comprehensive plan affects all unincorporated lands of Kittitas County of approximately 1.487 million acres. The comprehensive plan is intended to conserve lands designated by protecting them from conflicting land uses, providing sufficient services, and ensuring adequate facilities with goals, objectives, and policies. The 2016 Comprehensive Plan for Kittitas County addresses:

- Capital facilities, including the Bowers Field Airport, where CWU has long conducted flight training
- Economic development
- Housing, including the need for affordable housing
- Land use, including appropriate uses of land and strategies to ensure that the County can accommodate the population growth projected to occur over the next 20 years
- Recreation and parks
- Rural and resource lands use
- Transportation
- Utilities

The update of the Kittitas County Comprehensive Plan recognizes Central Washington University as an integral part of the region. The long-term plan identifies opportunities for enhanced collaboration and partnerships between Kittitas County and the university. The plan recognizes the fact that Central Washington University provides direct and indirect employment for a large portion of the population and that the Ellensburg area and student population and educational services are expected to grow substantially over the next few years.



CHAPTER 4. CWU CAPITAL PLANNING PRIORITIES

CWU capital planning will support the university strategic plan and the goals contained therein. Facilities planning too often has occurred in a segregated manner, with unique plans developed for housing, dining, multimodal teaching and learning, athletics, and other individual areas. This approach to capital planning ignores the reality that each of these things works together to create and support a rich student experience. Each of these elements in some way relies on another for full use or benefit.

With this plan, CWU will seek to express an integrated vision of the development of the university environment that serves many functions: teaching and learning, business and support systems, student life, as well as platforms for communication and data transmission, public safety, and utilities.

CAMPUS FACILITIES VISION STATEMENT

Visitors to CWU Ellensburg anticipate arriving at the university by seeing consistent, appealing, and clear signage as they approach campus. The streets that lead to the residential campus are attractive, lined with university buildings and green space consistent with the aesthetic of the larger campus. Compelling monuments and plazas mark the gateways to the residential campus at the northwest, southwest, northeast, and southeast corners of university property.

The boundaries between the campus and neighborhoods are well defined and maintained. Well-lit routes to Ellensburg's downtown core support student civic engagement and promote the local retail climate.

The inventory of student housing is fresh and modern, with living options that support a variety of preferences. CWU has fully put to use vacant university land, creating a mixed-use development that includes retail advantages as well as housing for students and employees.

An expanded Student Union and Recreation Center accommodates enrollment of 12,000 FTE students in Ellensburg. Dining facilities offer healthful, delicious, and eclectic meal choices.

New outdoor recreational facilities, including a large field house, support student engagement and healthful activity. Modern Division-II athletic facilities build alumni pride and engagement, and create a student life experience that is exciting and unique in Washington State.

The core campus is a graceful blend of elegant historical buildings and state-of-the-art facilities that house academic and administrative functions. Flexible space encourages collaboration and interdisciplinary inquiry and supports efficient and sustainable use of space and energy. Diverse and well-maintained landscaping provides interesting and beautiful respite from hardscapes. Eclectic artistic works are an essential part of the campus experience, inside and outside buildings.

This vision is informed and supported by ubiquitous digital technologies that connect people to teaching and learning, data, entertainment, and to each other, 24/7. Modern systems ensure the physical safety of people, and the security of personal information and intellectual property. Throughout, efficiency and sustainability are priorities. The vision is supported by thorough and true-cost budgeting, innovative funding, and rigorous stewardship.

OVERARCHING CAMPUS-WIDE PLANNING GUIDELINES

Following are capital planning guidelines and priorities that apply to all aspects of campus development:

- Academic quality is a priority. New facilities will be flexible and support integrated, multidisciplinary programming. CWU will develop funding strategies to ensure facilities are safe, modern, and supportive of academic goals.
- Aesthetics are a priority: Seek opportunities to screen or soften utility and materials-handling areas. Look for opportunities to preserve and enhance the quality and variety of green space. Support the expansion, variety, and accessibility of artistic elements in the landscape. Make campus borders safer, easier to maintain, and more consistent aesthetically by targeting for purchase strategic properties adjacent to campus. Establish consistent, visible, and attractive entrances to campus along city thoroughfares.
- **Pedestrians are a priority:** Provide ADA, pedestrian, and bicycle access along arterial pathways. Circulation paths that flow with overall campus circulation should continue through buildings. Functions and facilities should be located to minimize the need for vehicle traffic on campus. Make features that serve both the university and the larger community accessible to both. Maintain campus compactness to ensure that students can walk from one building to another in about 10 minutes.
- Sustainability is a priority: Promote energy conservation to support sustainability and cost efficiency. Use space efficiently, adding new gross square footage only when necessary. Building design and materials should be consistent, meet sustainability standards, and complement campus setting and regional climate. Open space outdoors should provide a respite from intellectual pursuits, provide inviting space for solitude or socialization, and feature interesting, diverse, well maintained plant life as well as complementary hardscapes. Planning should be integrated with Ellensburg and Kittitas County comprehensive growth plans. The depreciation of facilities, fixtures, and equipment, and strategies to maintain or replace them is an integral part of campus planning.

Students on Walnut Mall.



ACADEMIC AND STUDENT SUPPORT FACILITIES

In order to provide the highest quality academic and student-life experience, CWU must maintain modern and efficient academic facilities. In many instances, current laboratory and faculty spaces are adequate. However, a number of vital programs and departments have outgrown their facilities and are either fragmented across campus, space-constricted, or under-equipped for instructional and laboratory functions that support modern curricular needs.

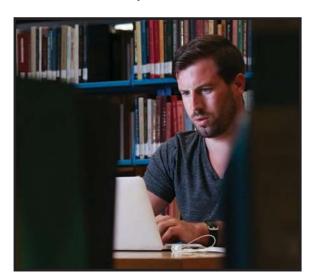
Reconfiguring and adapting existing classrooms and laboratories may increase efficiency of use. However, the demands of new methods of teaching and learning have simply bypassed some of our oldest buildings. It will not be cost effective to renovate facilities which, when complete, will still fail to support the academic functions of the building inhabitants.

Since 2004, the state of Washington has prioritized the development of the science neighborhood, a cluster of facilities that support education in science, technology, engineering, and mathematics. With CWU and legislative priorities synchronized, the state funded and CWU completed most of these facilities by 2018.

Click or Brick? Understanding Multimodal Teaching and Learning

The evolution in digital learning has blurred the distinctions among online, distance education, multimodal education, and other terms for teaching and learning that occurs synchronously or asynchronously in time and/or place.

CWU delivers distance education (DE) courses to students synchronously in real time via video conferencing technology. Online courses are delivered primarily asynchronously via web-based technology, without regularly scheduled class meeting times. However, these synchronous and asynchronous modes are now converging into hybrid and multimodal forms of delivery.



CWU launched video distance education in the 1970s, using interactive television (ITV) to transmit lectures from Ellensburg to University Centers in real time. ITV classrooms, which had to be supported by engineering staff, were specifically designed for this purpose. Recently, CWU replaced legacy ITV technology with Cisco Telepresence/WebEx as the video-conference delivery platform. CWU needs to maintain up-to-date DE equipment and core systems, upgrade additional classrooms/conference rooms, and build new DE spaces to meet demand for live video-conferencing in DE and online courses and programs.

In reality, ubiquitous Wi-Fi and high-speed Internet means teaching and learning can take place anywhere, anytime, using a smart phone, a tablet, a laptop—or any other personal computing device. With the new Telepresence/WebEx video-conferencing platform, CWU can expand the reach of DE to deliver courses and programs to students beyond our campus locations. Students can participate in live class sessions from a DE classroom on campus or from any location via the web.

CWU now offers 12 online, undergraduate, degree-completion programs; ten online/hybrid graduate degree programs; and two competency-based degree programs, delivered primarily asynchronously via the web. Enrollment in these online programs represents more than 10 percent of total enrollment at CWU. More than 40 percent of CWU students take at least one online course per quarter to add flexibility to their class schedule. Other students take online courses to address competing school, family, and work demands, and to shorten their time to degree.

As CWU develops a strategy for multimodal learning, the university must analyze how the shift to virtual space affects the need for physical space and technology "info-structure." Historically, CWU has served additional students by building more physical space. The university now is analyzing how the shift in teaching and learning modalities may affect the need for additional facilities, rather than investments in modernization of space and infrastructure.

CWU must adapt renovation and construction planning to facilitate student engagement for in-person education as well, and make active-learning classrooms (ALCs) the standard. ALCs are student-centered, technology-rich classrooms. ALCs include large tables and moveable seating to promote collaboration and active learning. Whiteboards and flat-screen monitors display student work. A teaching-control station allows instructors to select and highlight student work from any particular table. The adaptive and flexible classrooms—as well as smart labs and conference facilities—support a host of emerging technologies and teaching and learning activities, including but not limited to:

- Virtual reality/augmented reality (VR/AR)
- Distance education, which can be conducted anywhere video can be streamed live or pre-recorded
- Class capture, using hardware and software to record class sessions and load recordings into media management system for archive and review by students
- Student engagement/BYOD, by maintaining robust Wi-Fi service and providing facilities that accommodate students who want to "bring-your-own-device" (BYOD)

Classroom in Science II.



Facilities Priorities: Teaching and Learning

Health Sciences. The state provided \$23 million for the first phase of this facility in the 2017-2019 capital budget. During the 2019 session the legislature, appropriated \$32 million for the completion of this facility, which is scheduled to open in January 2022, and will serve allied health programs.

Health Education/Nicholson Pavilion renovation. CWU received \$5 million in the 2019-2021 state capital budget for the predesign and design to renovate and expand Nicholson Pavilion. This state-funded facility was constructed in 1959 as the Health and Physical Education Building. In 1959, the facility served fewer than 1,900 students; now CWU enrolls 12,000 students and Nicholson cannot accommodate academic programming demands, from course enrollment to university-wide landmark events like commencement and convocation. The nearly 60-year-old facility has never been renovated and all systems have long-since outlived their expected life span.

Humanities & Social Science Complex. CWU will request funding in the 2023-2025 capital budget for the construction phase of a major capital project in the North Campus Neighborhood to house CWU's Humanities and Social Science programs. Since the approval of funding for the Design Phase of this project, CWU has been working with NAC Architecture and their subconsultants on this project. At the time of this submittal, the design will be at 50% and tracking on schedule for construction to begin in the late 3rd or early 4th quarter of 2023. The Humanities & Social Sciences project has been a part of CWU's long-term planning and is a key element in helping the university to better serve the growing student body in the Humanities, Social Science and Services fields. The strategically-planned proximity of the proposed new facility in the northwest corner of the Central Campus will promote interdisciplinary education, enhance collaboration among students and faculty, foster curriculum, and avoid duplication of services and programs. This project will also be the first on CWU's campus to incorporate an open-loop geothermal system for heating and cooling. This system will begin CWU's effort to reduce carbon emissions significantly over the coming years.

Capital Planning Infrastructure. As noted in Chapter 3, Infrastructure is the support line of Capital Planning by ensuring capacity and redundancy that make all our campus buildings operational. As part of its evaluation of evolving campus needs, CWU has identified the addition of a new 1200 Ton Chiller and replacement of heating plant boilers as primary objectives to ensure the reliability of the campus' cooling and heating capacity respectively. The departure from fossil fuels has been a pursuit that CWU has engaged with in the past and is innovatively exploring the option of implementing ground source geothermal as a primary energy use for future capital projects. With a first phase geothermal well planned for the Humanities & Social Science Complex, the implementation of this system will also be able to support an estimated additional 200,000 sqft of academic space for future Capital projects.

Behavioral and Mental Health facility. This project will replace the existing Psychology Building that has reached the end of its life cycle in several critical areas. The new Behavioral and Mental Health facility will be designed to place Psychology Program, Counseling Center, Wellness Center, Case Management Department and Basic Needs Center all in one building. This alignment will allow for enhanced collaboration between real-life practice and academia. Additionally, collaboration and patient management will be centralized allowing for confidential, comfortable, easily accessible spaces for patient care and essential resources.

Multicultural Center. As one of the last institutions in the state to have a facility dedicated to the diversity and equity of higher education, this facility would accommodate an academic and social need to programming that is reflective of the student body, assist with serving traditional underrepresented student groups and boost student enrollment and retention. This roughly 20,000 square foot facility will represent CWU's commitment to creating a sense of belonging amongst the campus community, reflective the native heritage of the indigenous people of Kittitas county and provide critical degrees associated with high demand fields in the social service industry.

Aviation Degree Expansion. CWU offers the only Bachelor of Science Aviation degree in the Northwest. It is also the only place on the West Coast to offer training on the Advanced Frasca RTD Simulators. CWU provides flight training that supports the following certification, required for various BS specializations: Private Pilot

Certificate, Instrument Rating, Commercial Pilot Certificate, Multi-Engine Rating, and Certified Flight Instructor Certificate. Today the department counts 199 majors, with geometric growth potential. However, there is currently no available space for the projected growth in this area of study. The Aviation Department is required to turn away applicants to the program due to the lack of academic space needed for flight training. If funded, this project would build an aviation hangar at Bowers Field in Ellensburg for the department, which would allow for three additional FTE instructors, a maintenance mechanic and a larger fleet. Once the project is complete, the Aviation Department could accept some, if not all, the students they are currently required to turn away. **Arts Education Complex.** This facility would accommodate a critical need for classrooms, specialized labs and studios, and collaboration space for CWU's robust programs in the arts. The new building would expand arts capacity and perhaps house a School of the Arts: Art and Design, and Family & Consumer Science.

Sammamish Instructional Site. CWU-Sammamish opened September 20, 2017, after having transformed a facility that once served as a large church. CWU leases this to provide general education undergraduate classes, which are open to the public. CWU's three-year lease includes the option to purchase the facility. Revenue streams and demand for programs strongly support the purchase option. CWU is requesting funding in the 2023-25 budget cycle to acquire this facility.

Medical & Mental Health Center. The existing Student Health Center has not had a major renovation since it was built in 1971. This project will add ~7,000 square feet to address CWU's growing student enrollment and increased need for mental health services. The renovation will replace the aging infrastructure in the building, bringing the facility into compliance with state and federal laws regarding accessibility, energy efficiency, and state of the art medical services.

Mitchell Hall Renovation. Mitchell Hall houses critical administrative services that support every unit within the university but the structure has not had any significant renovations or updating since it was built in 1969. This renovation is intended to replace failing mechanical and electrical systems throughout the building, which will greatly improve indoor air quality and energy efficiency.

Academic Complex. This project would transform the Brooks Library into a modern academic complex and learning commons. The project will include an annex to house the stacks and library records/documents. In addition to providing traditional library services, programming could include a Student Success Center, Student Learning Support, Graduate Studies and Research, Office of Undergraduate Research, Faculty Excellence Center, common space, and classroom space.

Entrepreneurship/Innovation Complex. This project would aim to house interdisciplinary faculty and programming together and challenge departmental silos. Major outreach initiatives tied to academic programming, like service learning and internships, as well as alumni affairs could be housed in this complex. Design and operations of the building should be as innovative and cutting-edge as possible. Programming could include an Entrepreneurship/Innovation Center, Interdisciplinary Studies, Craft Brewing, Global Wine Studies, Hospitality Management, Agri-Business, Design Thinking, and International Studies and Programs.

Student Union and Recreation Center. The SURC was constructed in 2006 to serve 7,600 students. CWU now enrolls 9,500 FTE students in Ellensburg. This popular facility hosts community events and serves as a regional conference center. It houses the Wildcat Shop, and provides essential dining, activity and recreational, and meeting space for students. This facility is overdue for expansion or the creation of a complementary facility in a different location. The SURC organizations and business units (Student Union, Recreation, Dining, and Wildcat Shop) are currently conducting a feasibility study to evaluate opportunities for an expansion of the SURC facility. An expanded facility could include residence space and new dining options, in addition to the meeting and recreational space currently provided by the SURC.

Goals

• Develop strategies to secure funding for non-STEM facilities, generally those in the social sciences, non-STEM

general education, the humanities, and the arts.

- Plan for transformative projects that support integrated, flexible space and multimodal venues for teaching and learning.
- Consider that some facilities have outlived their usefulness and should be demolished.

Objectives

- Integrate facilities planning across divisions and functions of the university.
- Consolidate fragmented departments and programs. Strategically establish proximity between departments to foster curriculum integration and support interdisciplinary programs.
- Expand opportunities for instructional facilities to anticipate technological innovations. Integrate and continue to develop technical opportunities and infrastructure.
- Update facilities to accommodate current instructional needs and design flexibility into new and renovated spaces.
- Provide solutions for departments with identified space compaction problems.
- Provide public spaces for reading, computer use, team-teaching and learning, and informal meetings.
- Renovate and upgrade public areas and older academic spaces, including classroom and laboratory
 furnishings and equipment, so that the overall environment is conducive to academic success and promotes
 academic initiatives.
- Develop spaces to support the delivery and administration of mentored undergraduate and graduate research, externally funded projects, and interdisciplinary programs.
- Generally provide greater flexibility in design of space in support of redesigned educational programs that suit the needs of diverse learners and a changing economy.
- Upgrade or replace the Student Mental and Counseling Services facility.

RESIDENTIAL FACILITIES

Residential facilities play a critical role in the recruitment and success of students. CWU freshmen are required to live in residence halls, which play an important role in overall student success. Students who live on campus are more likely to persist, get better grades, and to graduate than those who do not. This is true for students at all levels, not just freshmen.

No longer simple "dorms," modern residence halls provide academic, health, and social programming. A modern and innovative dining operation is also critical to a residential student's experience. Studies show that living on campus was the single most consistent determinate of the impact of college. ¹⁴ Students who live on campus enjoy an increased sense of belonging, are more likely to be engaged in the campus community, and more likely to be open to diversity. ¹⁵

CWU operates 25 residential facilities, comprising more than 1.1 million gross square feet. There are 20 residence halls, and five apartment complexes; Dugmore Hall will open in fall 2019. Residential facilities house 35 to 476 occupants. Unit amenities may include furniture, wireless Internet, expanded basic FM-TV cable service, basic telephone service, utilities, and coin-operated laundry facilities.

New and renovated residence halls have key-card entry and laundry facilities and will transition by 2019 to proximity cards. These are contactless smart cards that can be read without inserting a card into a reader device, as required by magnetic-strip cards such as credit cards and contact-type smart cards.

For ADA and mobility-impaired students, all residence halls have limited access to the first-floor common areas. All residence halls are smoke free.

Twelve residence halls host Living Learning Communities (LLCs), where undergraduate students with a shared interest or within the same academic discipline live together in a portion of a residence hall (or the entire hall). Students participate in academic and/or extracurricular programming designed especially for them. They connect with faculty through formal and informal activities, resulting in greater understanding of their academic pursuit, affirmation of career choice, and enhanced preparedness for a career path.

North and Wilson Halls, built in 1951 and 1955, respectively, are located adjacent to the SURC. The facilities are among the most popular with students, because of the convenient location. However, retaining these favored halls prohibits the much-needed expansion of the SURC to the north.



Barto Hall

CWU currently maintains five apartment complexes, with studios, one-, two- and three-bedroom units. All apartments are gender inclusive; any person can room with another, regardless of gender and relationship. The units were built between 1960 and 1977, and serve students with children, married couples, and single students.

CWU supports few housing alternatives for employees, other than very short-term housing for executive-level staff. The university has begun to reflect in residential facilities cultural preferences and needs emerging as the demographic profile of CWU changes.

In fall 2017, housing demand exceeded capacity due to three consecutive years of record first-year enrollment. In past years, the university has counted on a higher vacancy rate in order to schedule maintenance of facilities. CWU's conference program has leveraged empty units and vacancies to host conferences and accommodate student visits. However, due to the strained capacity, the Conference Program has been limited to utilizing residential properties for summer conferencing only.

Four residence halls carry bonded indebtedness; the system generates revenue that is used to service debt, pay for operations, and maintain residence facilities. This balance creates risk if a residence hall needs to be taken "offline" for maintenance/repair or in order to be demolished and replaced.

Since 2009, the CWU Housing plan has been a schedule for financing the renovation or replacement of facilities, rather than a strategic plan designed to anticipate and meet comprehensive residential needs of students and employees. After the construction of Wendell Hill Hall in 2009, the university decided not to grow housing inventory. The university would cease construction of additional housing facilities, and instead, focus on the maintenance and replacement of facilities. Demand for additional housing has prompted the replacement of Barto Hall in a way that doubled capacity; the footprint is the same but the building is four stories instead of two.

Meantime, according to a 2017 facilities study, ¹⁶ 48 percent of housing facilities have missed core modernization cycles and the life cycles of major building components are past due. For another 16 percent, major envelope and mechanical systems are at the end of life and "functional obsolescence is prevalent." Ninety percent of capital spending for housing goes toward bringing new space online. CWU must address this imbalance in order to ensure students continue to have access to safe, high-quality housing.

Goals

- Create a strategic vision for the CWU planning, creation and maintenance of residential facilities that serve the CWU community in all phases of their relationships to the university
- Incorporate residential planning in overall long-term capital facilities planning
- Ensure that dining services for residential students are modern, innovative, healthy, and sustainable
- Enhance accessibility, affordability, safety, and proximity to campus life
- Accommodate cultural preferences and needs in residential facilities

Objectives

- Conduct site feasibility studies of university open space to identify best locations for mixed use housing developments, including but not limited to property that is vacant and that currently serves as recreation fields adjacent to Alder Street.
- Create a mixed-use, student apartment development adjacent to campus that
 - Provides amenities available in privately owned developments: e.g., modest cooking facilities, washer and dryer for each unit, pet friendly
 - Embeds light retail to create a village feel with gathering places, coffee shops, etc.
 - Recreation facilities to enhance convenience and reduce demand at on-campus facilities
- Create a mixed-use, workforce housing development near campus, a complex that
 - Provides amenities available in privately owned developments
 - Embeds light retail to create a village feel with gathering places, coffee shops, etc.
 - Includes some recreation facilities
 - Provides leases for up to five years and may include terms that allow residents to accumulate equity
- Create retirement transitional housing that prioritizes leases by retired faculty and staff, but could lease to individuals who have retired from other businesses or institutions
- Incorporate student housing in the expansion of the SURC, if feasible
- Create faculty and staff housing options that provide affordable options for new employees
- Review the 30-year Housing Finance Master Plan¹⁷ and evaluate the facilities that are fully funded but need deferred maintenance, particularly residence halls located in the center of campus, to determine if they are consistent with future campus growth needs.

Dining

- Use current and future technologies to establish a meal delivery or meal-ingredient delivery service for university housing to support student preferences and promote healthful eating
- Renovate and update dining service operations in the SURC, North Village Café, Tunstall, and other venues
- Build an organic garden that grows produce for university dining services
- Develop a Food Systems Co-op to collaborate across campus with academic programs, facilities, dining, and other units to foster space for the development of a community garden, campus wide composting of food waste, production fields, and greenhouses for growing hyper-local produce and other efforts to encourage wise stewardship of resources



SURC Dining

INFORMATION TECHNOLOGY SYSTEMS PLANNING

No aspect of capital planning has changed more rapidly or more significantly over the past ten years than information technology infrastructure and platforms. Digital pathways define the social, intellectual, and leisure lives of students, and, increasingly, of their parents and teachers. No university campus can be said to fully serve students without ubiquitous and modern technological communication, and teaching and learning digital platforms. The demand for digital learning calls for prioritized investment in digital networks and software in a way that allows CWU to respond efficiently to advances in communication and educational technology preferences and needs.

CWU is a comprehensive university that seeks to provide a world-class information technology environment. Information Services (IS) manages and operates the core infrastructure, network, telephony, and business systems that enable our campus community and support positive engagement across our institution and local community. As a strategic partner to the university, IS leads the implementation of emerging technologies, continuous improvement of current technologies, and thoughtful stewardship of technology resources. This technological ecosystem defines the social, intellectual, and leisure lives of students, and, increasingly, of their parents and teachers.

Through surveys, outreach programs, and governance, students, faculty, and staff guide the strategic decisions associated with technology. These feedback mechanisms help IS prioritize new initiatives that empower the CWU community to achieve strategic goals and academic outcomes.

In recent years, these priorities have been conceptualized and implemented through a number of strategic initiatives:

- Data warehouse construction. IS has partnered with the Department of Institutional Effectiveness to construct a data warehouse by 2018. The project objectives include:
 - 1. Provide a separate methodology for extracting transactional data for operational uses and decision-making
 - 2. Provide consistent data accessible for self-service analytics and that decision-makers can use for business-management practices
 - 3. Provide data for official governmental reports and public records requests that is accurate and can be reproduced
 - 4. Enable users to produce edits for the functional users to correct host system (e.g., PeopleSoft) data before static files are transferred to the warehouse



Data Center

The first phase of the project will resolve issues in data integrity in the data warehouse and in the host enterprise system, and produce accurate state and federal reports. The second phase will evolve the data warehouse past the initial goals of the previous plan and increase the capacity of the warehouse to support self-serve analytics.

The development will take a systems approach to address construction of the data warehouse. It also will incorporate plans for data integrity of the enterprise system, accreditation requirements, construction of reports for compliance (state and federal), and self-service analytics. Additionally, the system will eventually reduce personnel costs through automation.

• VoIP and data center transition. In 2018 and 2019, CWU will transition a legacy data center to a new location and convert a copper-wire phone system to voice-over internet protocol (VoIP) telephony. The data center transition project has to be executed in parallel with the campus-wide deployment of the VoIP telephony solution, the final construction of Samuelson Hall and the installation of building-specific network and information infrastructure.

The demolition of the legacy data center and subsequent rehabilitation of the site is dependent on the building being empty of all information infrastructure, telephony equipment, and cabling. The old data center was a bookstore and was built with unreinforced brick. It is expected to be empty and ready for demolition by January 2019.

- **Ubiquitous Wi-Fi.** CWU has implemented Wi-Fi secure services throughout the Ellensburg campus, for employees, students, and visitors alike. The secure, high-bandwidth service allows users to access the full range of technology services.
- **Data security.** Over the past few years, security has been a top priority of Information Services. Implementation of data encryption, robust internal audits, and defending against a constantly evolving landscape of threats has significantly increased our maturity in our risk management and security posture.
- **High-speed service.** CWU is investing in technology to increase network bandwidth, partnering with content-delivery networks, and eliminating our reliance on old communications technologies. The outward facing customer service focus is on streamlining service delivery through partnerships with external service providers and standardization of service frameworks.

Challenges

Since 2013, the Department of Information Services has worked to align technology with the CWU mission and vision through a robust governance model founded on collaboration and embracing new technologies. While this effort has seen many successes, the university struggles to fill the gap between technology implementation and strategic outcomes.

Creating a competitive advantage in information technology requires significant institutional investment in funding and time. Even though information technology is pervasive across our campuses, the execution of such a strategy is difficult. The evolution of information technology requires gathering, prioritizing, and resourcing institutional priorities across multiple functional areas and appointing authorities.

Core services have been delivered inconsistently during this time due to lower levels of process maturity and availability of resources. There are still redundant technology systems and services throughout the campus due to a lack of coordination and organizational alignment surrounding technology.

Information Services will provide processes to enable conversations within the CWU community regarding technology needs and challenges. This will be enabled via three ways:

- 1. The continued use of surveys to identify needs and shape investment priorities
- 2. The creation of experienced committees to inform technology discussions
- 3. Partnering via regular interactions with the CWU community to understand their strategic needs to determine how technology can be used to reach their goals

Goals

- Establish a secure technology ecosystem to support the creative expression and innovation of students and employees
- Generate business value and opportunities in support of Theme 5 of the university's strategic plan
- Protect infrastructure and the data it transmits or stores
- Support continuous improvement of the student and employee information technology experience
- Support and foster data-driven decision making
- Enhance technology in the Ellensburg community and beyond



- Provide innovative and modern technology, and unrestricted access to information and data
- Provide and support a technology infrastructure that distinguishes CWU as a modern and innovative university, while providing a secure, safe, and productive campus environment.
- Provide leadership in technology planning, assessment, and innovation to assure that future technology tools and services are available for CWU to achieve its long term strategic goals.

Objectives

- Support the development of an enterprise risk-management plan
- Support the development of enterprise disaster-recovery and business-continuity plans
- Support the creation of a data warehouse that supports data-driven decision making
- Create a biannual technology needs assessment, and develop and maintain a baseline assessment of classroom technologies
- Develop a strategy to assess technology return-on-investment and total cost of ownership
- Remove redundancies in technology organizations, services, and infrastructure.
- Support coordinated technology purchases across campus
- Use cloud technology to reduce costs and improve access to technology services
- Provide a high-speed wired and wireless network in support of the Ellensburg campus, centers, and residential facilities
- Support the development of an institutional digital media board architecture that addresses wayfinding, departmental communications, and centralized marketing/branding
- Promote paperless processes, automation, and mobile-device use
- Effectively and efficiently transition the legacy data center to the Samuelson data center
- Implement a cost-effective and modern Voice-over-IP (VoIP) telephony solution
- Support adoption of electronic instructional tools and materials that integrate with learning management systems, supports accessibility, in support of student outcomes
- Support the continuous evolution of our web-based architecture.
- Support the continued evolution of the data warehouse environment
- Complete CAPS+ implementation and ensure evolution consistent with technology and student needs
- Leverage Cloud technologies to expand capacity and reduce costs of data management and information systems
- Ensure data security, especially for compliance with FERPA and HIPAA

GATEWAYS AND BORDERS

Entry routes and locations are important visual connections to the campus as a whole. Access to campus should be both as direct as possible and immediately evident. It should be visually appealing in order to communicate to visitors, and potential students and employees that they are approaching an institution that is professional, welcoming, and well ordered. That institutional personality is communicated with clear, compelling, and brand-consistent signage on transportation routes and, by virtue of the condition of campus borders and entry routes.

The first indicators that a university exists in Ellensburg, occur far in advance of the official campus borders. Signage purchased by CWU and constructed by the Washington State Department of Transportation occurs on Interstate 90 approaching the west (exit 106) and east (exit 109) Ellensburg exits. CWU collaborates with the city, county, and utility companies on signage that directs people to CWU along West University Way and Main Street.

Entry routes and borders

I-90 exits are the primary entry routes to CWU: Exit 109 at Canyon Road north to E. University Way; Exit 106 directly to E. University Way. The university's highest priority boundary and the most problematic lies along E. University Way. The property immediately west of the CWU campus is inconsistently maintained. Visitors see everything from vibrant businesses to abandoned lots. Similarly, University Way east of campus features everything from charming homes and retail to a variety of distressed properties.

The route from E. University Way north along D Street/Wildcat Way is a better picture, dominated by CWU facilities with a few well maintained homes along the route. Student apartments and CWU athletic fields line the northern border, 18th Street. The eastern border of the campus core is Alder Street. CWU dominates most of both sides of Alder. Diverse private residential structures populate the east side of the street from 14th to E. 10th Ave., and on the west side of Alder from 11th to 10th.

Gateways

The northeast corner of the core campus is designated with a small cement monument embossed with the name of the university and surrounded by landscaping. A similar monument sits at the corner of Walnut Mall and E. University Way—although this is not the southeast corner of campus. Currently no designation marks the northwest corner of campus, although this should be incorporated in development underway now.

The primary entry to campus is at the corner of E. University Way and D Street/Wildcat Way. CWU is present at all four corners of this intersection: Getz-Short apartments are on the southwest corner; Shaw-Smyser is at the northeast corner; parking occupies the other two. The eastern corners of this intersection are marked by massive, concrete monuments embossed with the name of the university.

CWU southwest entrance.

This intersection will be widened in summer 2019, compelling the overhaul of this strategic entrance to campus. The project will add right turn lanes, will take six to eight feet of property from the south side of E. University Way, eliminating some parking as well as planters for trees and shrubs. The project also will eliminate as many as five, 75-foot Colorado blue spruce trees on the northeast corner. CWU will have to recreate this key entry point to campus and is working now with the city to understand fully the physical changes the project will make and what resources will be required to renovate this key gateway.



Goals

- Create safe and welcoming routes from campus to key destinations: retail core, residential facilities, transportation hubs, etc.
- Create signage and gateway treatments that enhance university visibility and first impressions
- Enhance campus borders to ensure safe and efficient travel and consistent and pleasing aesthetic treatments
- Provide accessible and consistent wayfinding

Objectives

- Create standardized, highly visible, brand-consistent gateways at each campus corner
- Seek opportunities to secure private property on campus borders and at strategic entry routes
- Expand and maintain ADA compliant, brand-consistent directional signage that is clear and accessible regardless of mode of travel

PARKING AND PERSONAL MOBILITY

Pedestrian-friendly Planning

CWU has long prioritized pedestrian-friendly campus development, with density that supports no more than a ten-minute walk from any academic building to the other. Five previous Capital Master Plans have supported the vision of a pedestrian-friendly campus. Strategies for implementing this vision have included removing parking from the center of the campus, creating major east-west and north-south pedestrian walkways, and reducing service and vehicular traffic on the campus. Collaboration with the City of Ellensburg is a high priority, particularly when creative solutions to pedestrian flow involve city rights-of-way.

CWU prioritizes foot traffic and personal transportation devices (PTD)—e.g., wheelchairs, bikes, skateboards—on the residential campus. Vehicle traffic sometimes is necessary for some delivery and maintenance activities. CWU has replaced full-size gas-powered vehicles with electric cars and vans for some functions, especially for mail delivery, tours, and event-specific needs. There are only two charging stations for vehicles, and these are located in staff-only parking areas.

CWU is unique among Washington's public baccalaureate institutions in the great degree to which the campus and adjacent communities are accessible without a car. The terrain is generally flat, and traffic limited. This low-crime city was named a silver-level, bike-friendly community by the League of American Bicyclists in 2015. The downtown retail core is three blocks—easy walking distance—from CWU's southern border. City neighborhoods are well maintained and most have sidewalks, including ADA-adapted curbs.

The CWU Circulation Plan 2011¹⁸ and the CWU Master Plan Parking Analyses for 2013¹⁹ and 2017²⁰ were developed in collaboration with the City of Ellensburg Comprehensive Plan, Non-motorized Transportation Plan,²¹ and John Wayne Pioneer Trail Reconnection Study Final Report.²²

Miles of mixed-use primary and secondary pedestrian walkways spread across campus. The flat terrain of the compact campus and well maintained sidewalks encourage walking and the use of a range of personal transportation devices (PTDs), including bicycles and boards—skate, long, and hover.

Two important pedestrian corridors within the campus are the Walnut Mall between E. University Way and 14th Avenue, and the Chestnut Mall between E. University Way and 14th Avenue. Both once were part of the city street system. These wide pedestrian malls, lined with shade trees, provide primary north/south routes for pedestrians and PTDs. The Science Neighborhood Planning Study 2010^{23} recommended strengthening the north/south pedestrian axis between E. University Way and the Science Neighborhood and Central Green via the E Street Mall. Hertz Hall, which has barred pedestrian and PTD traffic on this route, will be demolished in January 2019.

A collection of traditional signage guides individuals from place to place, with the help of a few wooden, national park-style map boards. With the burst of construction since 2009, many of the signs and all of the



Students on Chestnut Mall.

maps are out-of-date. Building name signs have been updated between 2010 and today, but the color on the signs is inconsistent with brand standards, and very little signage indicates what activities occur within each building. No signage provides interactive maps or event/calendaring functions.

CWU has worked to locating parking lots outside the central core on the periphery of the campus, in order to reduce vehicular traffic on campus. Some primary and secondary pedestrian and PTD routes still double as service and emergency access. Delivery and service trucks too often frequent the campus core, conflicting with pedestrian and PTD traffic and, often, damaging landscaping.

Parking plays a key role in a multimodal transportation system especially considering that a vehicle is parked for the majority of the day and requires a parking space at each origin and destination. Typically, the focus of a transportation system is spent on the one to two hours that vehicles are on the road, but to manage and operate an efficient transportation system, it is necessary to address parking issues which work hand-in-hand with managing traffic congestion as complementing the non-motorized system. Parking is truly an integral part of the overall transportation system and many management practices provide benefits beyond parking and need to work in conjunction with the overall vehicular and non-motorized circulation plan.

Historically parking was a free and plentiful commodity. As the student population grew, parking demands increased and parking supplies decreased. Over time the university has continued to implement strategies to improve efficiencies and manage the demand through pricing and structured regulations. It is anticipated that the balance between parking supply and demand will continue to change as the university grows.

Parking management strategies support a more walkable community reducing the dependence of the automobile, improve traffic operations, and lessen the impacts to the environment. The parking management strategies are summarized in three primary categories and include everything from infrastructure to policy changes.

- 1. Improving Efficiency. These are strategies that are aimed at maximizing the use and efficiency of parking supply.
- 2. Reducing Demand. These are strategies that are aimed at reducing parking demands through shifting travel modes and/or changing behaviors during peak demand periods.
- 3. Awareness, Enforcement, and Authority. These are strategies related to making the public aware of the parking regulations and locations, enforcing regulations and policies, and monitoring parking conditions to continually make improvements and ensure strategies are appropriate as conditions change.

In 2018 there were 4,384 parking stalls provided in 44 lots throughout the residential campus. The majority of parking lots are paved and striped, however, several of the areas located on the north end of the campus have a compact gravel surface. All parking lots are identified based on their grid location, with each parking lot having a specific use classification.

The following classifications are currently used and help manage the available parking supply:

- General Campus Parking (24 hour)
- General Campus Non-Overnight Parking
- General or Student Village APZ (Apartment Parking Zone)
- Free Parking Lot
- On-Campus Resident Parking
- Timed and Reserved Parking Lots

Students and staff purchased approximately 6,398 parking permits during the 2017-2018 school year.

The overall parking demand on campus is highest in the morning with about 90 percent utilization during the typical weekday. The afternoon has approximately 75 percent utilization on typical weekdays. The employee and Student Village APZ lots were the most heavily used during the day. The southern part of campus had higher parking demand than the northern part. Many of the lots on the southern part of campus are consistently at or near capacity.



Southwest corner campus parking lot.

Through the capital master planning process, CWU has created a long-term development plan that continues to add academic, residential, and event facilities to the campus core and to push parking to its outer boundaries. Some new buildings have been or will be constructed on space that once served as a parking lot.

As the campus core continues to develop prioritizing academic and student-life facilities, CWU should give careful consideration to whether to replace parking, and, if the decision is to replace parking, to what degree and where. The university could reconfigure existing lots, developing new surface lots, develop storagelots, considering the development of parking garages, replace less than 100 of displaced capacity, or simply choose not to replace parking.

Ensuring Accessibility for All

The Americans with Disabilities Act prohibits discrimination on the basis of disability in employment, state and local government, public accommodations, commercial facilities, transportation, and telecommunications. Federal statutes that implement the ADA include Telecommunications Act, Fair Housing Act, Voting Accessibility for the Elderly and Handicapped Act, Individuals with Disabilities Education Act, and the Architectural Barriers Act.

Under the Washington Law Against Discrimination, a disability exists regardless of whether it is temporary or permanent. It includes, but is not limited to, any physiological disorder or condition, cosmetic disfigurement, or anatomical loss affecting one or more body systems, such as the neurological, respiratory, digestive, or reproductive body system. It also includes any mental, developmental, traumatic, or psychological disorder, including emotional or mental illnesses and learning disabilities. While the 2010 ADA Standards for Accessible Design are currently the federal ADA standards, many states turn to other building codes when it comes to accessibility. In Washington, the following codes govern accessibility:

- Washington State Building Code Council
- Washington State Amendments to the 2012 International Building Code
- Chapter 51-50 WAC. State building code adoption and amendment of the 2012 edition of the international building code
- Chapter 70.92 RCW Provisions in buildings for aged and handicapped persons

Several other Washington statutes govern the accommodation of mobility and accessibility for the disabled. Many of these provisions are contained in Washington Administrative Code adopted by the Office of Financial Management, WAC 50.50

Goals

- Prioritize travel patterns for pedestrians, vehicular and PTDs; eliminate unnecessary vehicle traffic from campus; when necessary use electric vehicles.
- Ensure that campus travel routes support the goals and requirements of the Americans with Disabilities Act.
- Provide sustainable and safe parking away from the academic core of campus. Provide sufficient, but not excessive, parking for campus residents and commuters.
- Create safe and welcoming routes from campus to key destinations: Ellensburg retail core, residential facilities, transportation hubs, etc.
- Support local and regional transit plans and systems that provide mobility options for CWU students and employees to satellite communities and critical local resources.
- Update campus wayfinding resources. Provide adaptive, accessible digital wayfinding solutions in addition to traditional options.

Objectives

Signage

- Expand and maintain ADA compliant, brand-consistent directional signage
- Create digital signage that communicates building program, scheduling and campus events
- Include digital signage as a standard mode of wayfinding and information access

Prioritize Non-motorized Transport on Campus

- Eliminate gas-powered service and delivery vehicles on campus
- Improve pedestrian/PTD congestion points with dedicated zones and/or widened paths
- Provide mid-block crosswalks at high-traffic pedestrian areas along Dean Nicholson Boulevard and E. University Way
- Review the need to convert Walnut Street north of Dean Nicholson Blvd and/or Dean Nicholson Boulevardto pedestrian malls
- Place additional bicycle storage near core of campus
- Resolve trip hazards

Parking

- Improve the accessibility, security, safety, and appearance of parking lots
- Re-engineer the SURC parking lot to maximize use, improve traffic flow, and enhance safety
- Identify areas of high parking demand and recommend solutions
- Increase overall pricing and consider adding a tiered, performance-based pricing strategy that charges higher fees to more desirable areas
- Create permit zones that encourage a park-once-and-walk approach or carpooling
- Review technologies such as license plate registration and camera recognition systems that improve the efficiency, cost, and effectiveness of parking enforcement
- Improve wayfinding and guidance systems to clearly identify and guide drivers to available parking
- Integrate residential parking-permit management into the Parking Services group to allow a central database for permitting and improved management
- Conduct monitoring studies to make sure demand and supply are adequately balanced.

Transportation

- Reconnect the north and south portions of the Palouse to Cascades State Park Trail
- Sustain Yakima-to-Ellensburg transit lines
- Support Ellensburg transit
- Create campus transit from the academic core to remote residential and activity facilities



Kamola Hall

GREEN SPACE

Landscape History

CWU is located on land ceded to the United States Federal Government Washington State by the Confederated Tribes and Bands of the Yakama Nation through the Treaty of 1855. Pschwánapam Indians, also known as the Kittitas, camped in villages in the Kittitas Valley along the Yakima River and its tributaries, including Wilson Creek.

The Kittitas Valley is part of a greater vegetation zone known as the shrub-steppe. The base of the valley was naturally abundant in Basin Wild Rye (Elymus cinereus) and Bluebunch wheatgrass (Agropyron spicatum), and also sagebrush (Artemesia tridentata), bitterbrush (Pershia tridentata), rabbitbrush (Chrysothasmus nauseoseum), and various grasses in drier areas of the valley, according to the 1973 report "Natural Vegetation of Oregon and Washington," by Jerry F. Franklin and C.T. Dyrness.

CWU honors the history and arid climate of our location with some plantings of native vegetation. This is most evident in the natural landscapes associated with Wilson Creek and xeriscaping at new facilities. However, these installations are inconsistently maintained, and the overall campus, has little naturally occurring native vegetation. Decorative plants, grasses and trees, some non-native invasive species, and some reintroduced native plants predominate in landscaping.

CWU's campus is a beautiful, welcoming home of education, research, and student life. Thoughtfully designed outdoor space promotes communication and community. It supports respite and recreation; it provides peace and inspiration. The way we design our portion of the Earth reminds us of our origins and urges a sustainable path forward. In short, our landscape honors our mission, by providing space to prepare students for enlightened, responsible, and productive lives; to produce research, scholarship, and creative expression in the public interest; and to serve as a resource to the region and the state through effective stewardship of university resources.

CWU's lovely exteriors include classical revival style architecture as well as modern scientific facilities. An expansive lawn lies at the heart of campus, with smaller gardens and landscaped nooks radiating from it. "Front yards" around residential areas provide leisure and recreation space for students. The landscaping includes centuries old oaks and elms, xeriscape, and formal garden plots, as well as special installations designed to return the land to its natural state. A beautiful Japanese garden marks CWU's special relationship to University of Shimane Junior College. Another commemorates the life of a student with shrubs that attract butterflies. Eclectic artistic works are an essential part of the campus experience, inside and outside buildings.

The arboretum west of Dean Hall is a resource both for study and relaxation. The tranquil space is heavily utilized for lunches and picnics and by students and faculty in various environmentally focused classes for scholastic exercises. The Greenhouse is also utilized in plant biology courses and the facility is home to CWU's unofficial tortoise mascot. Snorkel.

The Campus Green is the calm center of the residential campus. The gently rolling lawn is surrounded by the science neighborhood and residential facilities, with the Ellensburg Water Company Irrigation Canal on the north. The Green is dotted with benches and a variety of sculpture, including some attuned to the movement of the wind. In the northeast corner of the Green, a small amphitheater is sculpted into the lawn. At the southeast corner of the Green, turf was planted where tennis courts once stood, adjacent to the Japanese Garden and the SURC.

The Green's wide-open space lacks defined gathering spaces. The benches that are installed are simply placed in the middle of this vast area. The official walk through the Green runs north-south from Science II to the Library. But students have shown that this walk doesn't accommodate actual travel habits by carving trails across the grass. An especially significant trail, visible on satellite maps, runs from the SURC, northwest to the canal bridge.

The Ellensburg Water Company Irrigation Canal bisects the campus. Bankside willows provide a shady respite for study or relaxation. Wilson Creek, once covered by local development, has been returned to the surface in natural settings that support native fish. The projects adjacent to the SURC and to Munson Hall use native trees and grasses in landscaping around the newly surfaced creek. The canal is prone to flooding, which does not present risk to health and safety, but can represent a significant maintenance effort for sandbagging and other mitigation.

North of Dean Nicholson Boulevard and east of Alder Street lie facilities dedicated to competition and practice associated with club sports, recreational activities, and NCAA Division II athletics. The athletic facilities will be partially renovated and a large recreation track facility created in 2018. West of Alder Street lies a 35-acre parcel of undeveloped property. North of that lie grass fields designated for CWU recreation programs. The fields are not lit, nor do they have security features other than a simple padlock on a fence gate.

The 2010 Landscape Design Plan, the most recent plan, calls for blending new development with the character of the mature campus landscapes and other natural areas. New development should retain islands of natural vegetation, which soften building facades and site facilities. Integrating and articulating architectural and site design, in conjunction with landscape architectural design, in the planning process ensures that attractive settings and ample open spaces are provided for new facilities.

Goals

- Preserve and enhance the open-space character of the campus, especially when locating new buildings and utilities
- Honor the cultural and biological history of the region in portions of landscape design
- Create an integrated and comprehensive landscape design plan that considers, among other factors, sustainability, climate, topography, compatibility with building design, plant diversity, and aesthetics
- Establish wind blocks to enhance the utility of outdoor spaces
- Enhance the safety of and accessibility to green spaces

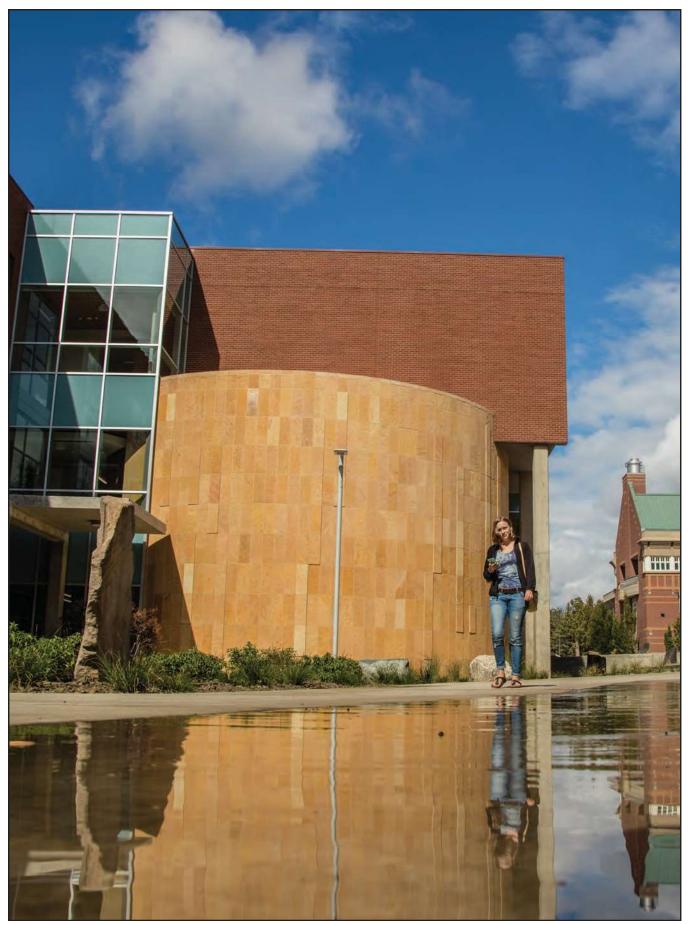
Objectives

- Use landscape treatments to support capital facilities goals: to soften and blend architecture, direct pedestrian flow, link campus facilities, enhance safety, screen unsightly areas such as service and loading docks, and to create a natural connection to the environment
- Enhance the beauty and educational value of landscaping by using a broad range of plant materials
- Where open spaces are not regularly used for relaxation or recreation, non-turf landscaping should be designed for aesthetic interest and habitat enrichment
- Complete the draft irrigation plan, which prioritizes use of water, describes strategies for new capital irrigation installations, open space maintenance, and water conservation
- Use strategic plantings to create wind and sight buffers
- Seek opportunities to daylight Wilson Creek

- Seek opportunities to build new and to improve and develop natural habitats, such as those located around Wilson Creek at Munson Hall and at the SURC
- Update and formalize the tree maintenance plan to include staffing and funding strategies, tree condition
- Standardize planter design, use and maintenance, and adjust inventory accordingly
- Create an art walk that showcases existing works of art; add plinths for artwork by guest artists or curated artwork that is leased
- Protect landscaping from wear and tear of vehicles by rerouting service and delivery vehicles, construction of curbs or walls, and other strategies
- Draft strategies to enhance the appearance and use of the Campus Green
- Review the need to restrict access to banks of the irrigation canal and the canal itself, in order to promote the safety of students, employees, and visitors to campus
- Consider strategies for enhancing access—visual and physical—to the Englehorn Pond site while protecting this ecologically sensitive area. The pond is not visible from the fence around it, which was erected to restrict access to it to all but academic researchers.







Science II

CHAPTER 5. RESOURCE DEVELOPMENT AND STEWARDSHIP

TRUE COST BUDGETING

CWU fully embraces the notion of stewardship expressed in Theme 5 of the university's strategic plan. This commitment is evident in CWU's new approach to management and to the development and execution of the operating budget. Responsibility-Center Management and Activity-Based Budgeting recognize and make transparent the true cost of operating a university, and make decisions fully informed by this information. In doing so, we hold ourselves accountable to students, to each other and to the state and the taxpayers who support CWU.

This commitment also is evident in the university's determination to build a decision-making infrastructure on secure, consistent, and accurate data. In fall 2018, CWU will have constructed a data warehouse that captures and frames data in a way that allows decision-makers to put the data to work every day.

CWU has been less thorough, however, in reflecting the true cost of the acquisition and stewardship of state capital facilities: buildings, grounds, and infrastructure, including information technology. Historic budgeting for these assets has focused on up-front acquisition and personnel. According to the 2017 Sightlines Maintenance Study,²⁴ more than 90 percent of capital spending for residential facilities goes to bring new buildings on line; 69 percent of state investment (for academic facilities) has gone into new space.

Science II furniture

Of course, acquisition also implies costs for installing and deploying, using, upgrading, and maintaining the assets. The total life cycle cost also must include the depreciation and replacement of furniture, fixtures, and equipment. The latter particularly can be expensive in facilities used for scientific activities and research.²⁵ CWU has prioritized general maintenance and repair of non-residential facilities within the biennial structures of the state capital minor works budgeting and planning system. Each year, CWU refreshes a conservative, prioritized list of preservation, maintenance and program enhancement projects.

In order to qualify for minor works funding the projects must fall under \$2 million. Minor works funds are generated by a tuition building fee and trust funds that come from





Remodeling and renovating Samuelson began with demolition of part of the original building.

state timber sales. These funds are appropriated biennially by the legislature, although the state rarely supports program improvements intended to improve education quality rather than to preserve an asset. CWU's estimated program backlog exceeds \$250 million. The total appropriations for minor works usually total no more than \$10 million; the estimated maintenance backlog for non-residential buildings alone is nearly ten times that.

As a result of the scarcity of state funds for preservation and maintenance, system upgrades and building repairs are reprioritized or simply postponed, sometimes indefinitely. Year after year postponement can increase long-term costs when a project in need of maintenance is still subjected to daily use and becomes a major system replacement project. Continued deferral of maintenance erodes building efficiency, effectiveness and relevance. Untended maintenance also wears down the morale of those who learn and work in the facilities and see them never quite being a priority and experience first-hand, the aging and deterioration of the day-to-day building experience.

TO DEMOLISH OR PRESERVE?

Since acquiring its first building in 1894, CWU has rarely demolished a significant building:

- Edison Hall was demolished in 1986
- Barto and Black Halls, in 2011 and 1998 respectively, were largely demolished and replaced on the existing footprint.
- Courson and Muzzall Halls were demolished in 2008
- The southern portion of Samuelson Hall was demolished and replaced in 2018.
- Peterson Hall and the Chimpanzee Human Communication Institute were demolished in 2018.
- Hertz Hall will be demolished in 2019.

CWU has determinedly preserved structures rather than demolishing them, even when demolition ultimately might have been the wiser cost-benefit decision. For example, CWU has preserved Depression-era railroad buildings near Jongeward Hall and uses them as staff office and meeting space. There is a 1937 vegetable processing warehouse (the Green Giant Warehouse) and a 1948 residence hall now provides office and meeting space for the Office of International Student Programs. A Quonset building from the Wanapum Dam construction site (circa 1959) is a furniture warehouse and a construction supervisor portable is housing Police and Public Safety staff.

The result of some of these preservation decisions is providing space that is inadequate to the requirements of the building inhabitants—and dedicating limited resources to sustaining facilities that will continue to be inadequate even after they are updated. The true-cost approach to managing capital facilities should include a life-cycle and cost-benefit analysis of maintenance projects as well as for acquisition, in order to ensure the best use of limited funds.

EXPANDING CAPITAL RESOURCES

By leveraging legislative preferences and the state capital project scoring system, CWU has been very successful in securing funding for new state capital projects as well as for infrastructure and renovation. But changes to scoring rubrics, the completion of the Science Neighborhood, and other factors will slow the stream of funding to CWU from the state for academic buildings.

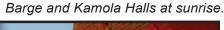
Until 2018, when CWU secured building naming support for a new residence hall, the only funding stream for residence halls has been auxiliary funding, typically by issuing revenue bonds. That, too, is the only revenue available for preservation, maintenance, and program enhancements in non-state buildings. Neither fund source is adequate to meet the needs of the university for new and improved facilities or even maintenance.

Goals:

- Address deferred maintenance backlog
- Reflect the true cost of facilities in institutional budgeting and reporting
- Use life cycle costing (LCC) as part of a systematic approach to balancing maintenance costs, operating costs, and replacement/refurbishment costs over the life of the asset.
- Develop new funding strategies for capital needs
- Develop replacement strategies for instructional technology

Objectives

- Set aside 2 percent to 6 percent of the annual operating budget for preventive maintenance or to reduce the maintenance backlog.
- Incorporate the cost for development and maintenance of active-learning classrooms in operating and capital budgets, and in capital budget projections and state requests.
- Prioritize regular servicing and preventive maintenance, ongoing repairs, consumables, and energy costs in budgeting.
- Make the total cost of operation of a facility for its life a component of biennial request prioritization and budgeting.
- Involve janitorial, grounds, maintenance, security, and other service providers in estimating and planning to accommodate facilities operations.





ENDNOTES

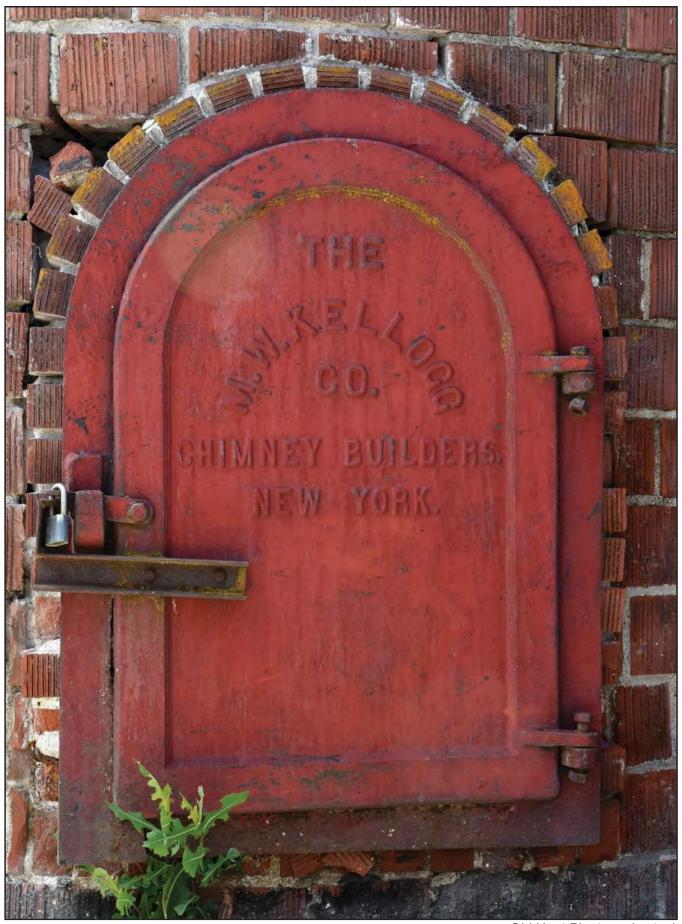
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Old Heat Plant smokestack

APPENDICES

The appendices can be found at cwu.edu/facility/master-plan.

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LIST OF BUILDINGS

Original Construction	Original name	Renovated	Demolished	Current Name or Common Name
1894	Barge Hall	1993		
1908	Edison Hall		1986	
1911	Kamola Hall	2004		
1914	Heating Plant Building		c.1935	
	(also "Manual Training Building," and "the Science Building")			
1917	2nd Heat Plant (Old Boiler Plant)		c.1946	
1919	Old Hospital		2013	
1925	Smyser Hall	1929, 1958, 1963, 1994		Shaw-Smyser Hall
1926	Student Association Building (Samuelson Union Building)	1935,1951,1961, 1970, 2018		Samuelson Building
1927	Munson Hall	1948		Munson Retreat Center
1927	Sue Lombard Hall	1966, 2005		
1935	McConnell Hall	1981, 2004		
1937 (Purchased	Physical Plant Warehouse			Jongeward Warehouse
in 1970)	(Green Giant Warehouse)			
1938	Hebeler Hall	1985		
1944	Peterson Hall		2018	
1945	Campus Courts Apartments		Sold in 2007	
1946	Heating Plant	2016		Old Heat Plant
1947	Lind Science Hall	1996, 2017		Lind Hall
1947	President's Residence	1968 addition		University Reception Ctr/ Residence
Purchased in 1948	Kennedy Hall			International Center
1951	North Hall			
1951	Tunstall Commons	1966, 2004		
1955	Bookstore	1980, 1987		Computer Center
1955	Wilson Hall			
1957	Recreation Building	1963	c.1997	
1959	Button Hall			
1959	Nicholson Pavilion	2009		
1959	Tomlinson Stadium	1968		Tomlinson Stadium Booths
1960	College Apartments			Getz-Short Apartments
1960 1961	Stephens-Whitney Hall	1998		
1961	Black Hall Bouillon Hall	1978, 1994		
1961	Central Stores	2002		Duplicating and Laundry
1961	Grupe Conference Center	1998		Duplicating and Eaunary
1962	Anderson Hall	1770		
1962	Auxiliary Services Warehouse			
1962	Barto Hall (old)		2011	
1962	Holmes Dining Hall	1965 addition	2004	
1962	Moore Hall			
1962	Power Technology Building	1981		
1962	Wahle Apartments			
1963	Hertz Music Hall			Hertz Hall
1965	Beck Hall			
1965	Hitchcock Hall			
1965	Meisner Hall			
1965	Sparks Hall			
1966	Brooklane Storage			
1966	Courson Hall (Courson Conference Center)		2008	
1966	Davies Hall			
1966	Quigley Hall			
1966	Muzzall Hall		2008	

Original Construction	Original name	Renovated	Demolished	Current Name or Common Name
1969	Alford-Montgomery Hall			
1969	Carmody-Munro Hall			
1969	Dean Science Building	2009		Dean Hall
1969	Green Hall	2006		
1969	Kennedy Hall			
1969	Michaelsen Hall			
1969	Mitchell Hall	1989, 1994		
1969	Randall Hall	2004		
1970	Dining Services Warehouse/		2004	
	Food Facilities Warehouse			
1970	Grounds Storage	2003		
1970	Trash Compactor Building			
1970	Surplus Property Warehouse			Surplus Warehouse
1970	Telecommunications		1998	
1971	Health Center			Student Medical and
				Counseling Clinic
1971	Hogue Technology Building	2012		Hogue Hall
1971	Language & Literature Building			Ü
1971	Student Village Apt A-G			
	and Multipurpose			
1971	Student Village Apt H-I			
1973	Grounds Equipment Shop			
1973	Jongeward Facilities Administration	1999		Jongeward Offices,
	and Plant Services			Jongeward Shop
1973	Psychology Building			Jongewar a bhop
1975	Heating/Cooling Plant			
1976	Brooks Library			
1976	Farrell Hall			
1977	Brooklane Village			
1980	Botany Greenhouse			
1980 (Purchased	Jansen Warehouse			Dining Services Warehouse
in 2004)	,			5
1989	Physical Education Building			Purser Hall
1991	Aquatic Facility			
1993	Flight Tech Building		2009	
1994	Community Softball Restrooms			
Purchased	Naneum Building			Facilities Administration Annex
In 1994	Ŭ			
Purchased	Public Safety Building			
in 1994	ý G			
1995	Chimpanzee and Human	2006	2018	
	Communication Institute (CHCI)			
1998	Haz/Mat Building			
2000	Science Building			
2001	Academic Storage Facility			
2004	McIntyre Music Building			
2006	Student Union & Recreation Center			
2009	Aviation Training Center			
2009	Wendell Hill Hall			
2011	Hogue Hall addition			
2012	Barto Hall			
2014	Outdoor Reception Restrooms			
2016	Science II			
2017	Brooklane Early Childhood			
	Learning Center Annex			
2017	Flight Instructor Office			
2018	Recreation Expansion / Track Facility			
	. ,			

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Photo courtesy of Central Washington University, by Richard Villacres.

Alfredo Arreguin: The Fish People of Blue Agate River, 1999



 $\label{lem:convergence} Artwork \ copyright \ Ball-Nogues \ Studio.$ Photo courtesy of Central Washington University, by Richard Villacres.

Ball-Nogues Studio: Secondhand Geology, 2017



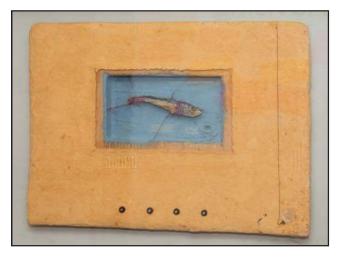
Artwork copyright Luke Blackstone.
Photo courtesy of Central Washington University, by Richard Villacres.

Luke Blackstone: A Gesture for Planetary Alignment, 2012



 $\label{thm:convergence} Artwork\ copyright\ Deborah\ Butterfield.\ Photo\ courtesy\ of\ the\ artist.$

Deborah Butterfield: *Wickiup,* 1995



Artwork copyright Mark Calderon. $Photo\ courtesy\ of\ Central\ Washington\ University,\ by\ Richard\ Villacres.$

Mark Calderon: Against the Current, 1978



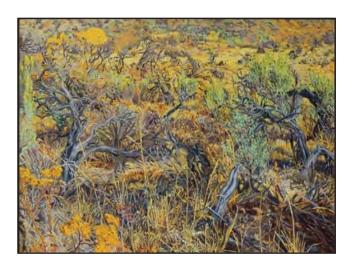
Artwork copyright Ed Carpenter. Photo courtesy of Central Washington University, by Richard Villacres.

Ed Carpenter: Flying Bridge.1995



Artwork copyright Paul Harcharik. Photo courtesy of Central Washington University, by Richard Villacres.

Paul Harcharik: Compass, 1996



Artwork copyright Cynthia Krieble. Photo courtesy of Central Washington University, by Richard Villacres.

Cynthia Krieble: Sagebrush Landscape, 1981

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Artwork copyright John Rogers.
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John Rogers: Octaves of Light, 2005





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Benson Shaw: Resources, 2009



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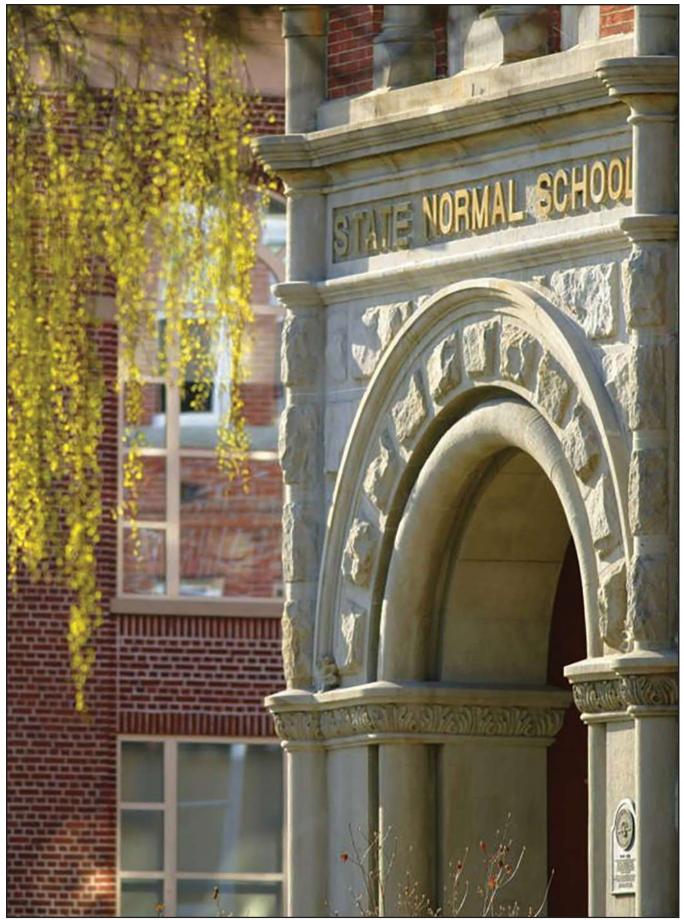
Benson Shaw: Resources (2), 2009

Artwork copyright Brad Rude.
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Brad Rude: The Discoverer, 2000



Barto Hall



Barge Hall

