

## Innovation & Design

- Recycling Center
- Sustainable Interpretation
- Donor Recognition
- Master Plan Alignment

A recycle sorting center at the northwest corner of Campus Center improves recycling accessibility and visibility to promote campus recycling.

Educational plaques throughout Campus Center allow insight into the sustainable design practices implemented in the Campus Center design.

The West Lobby serves as home to an assembly of stainless steel plaques showcasing the many gracious donors who, through the Bellingham Technical College Foundation, supported the realization of Campus Center. Settlemyer Hall, the college's first-ever large auditorium, is named in honor of Campus Center's largest contributor: the Estate of Earl Settlemyer.

The design of Campus Center coincides with Bellingham Technical College's 20-year Master Plan for development, sustainability, continuity, connectivity, landscaping, and storm water management strategies. The rain garden design and courtyard patterning is intended to be replicated as the college develops to the west, ensuring a cohesive campus for BTC faculty and students.



THIRD FLOOR



SECOND FLOOR



FIRST FLOOR

### LEGEND

- SHARED/CLASSROOM SPACE
- CULINARY ARTS
- CAMPUS STORE
- COMPUTER NETWORKING
- BUSINESS COMPUTER
- INFORMATION SYSTEMS (BCIS)
- LIBRARY
- STUDENT ACTIVITIES
- SUPPORT
- FACILITIES



39-51

## LEED facts - NC Gold



sustainable sites



materials & resources



innovation in design



energy & atmosphere



water efficiency



indoor environmental quality



points achieved

points pending

points available

## Ratings and Awards:

LEED Gold

## Team:

### OWNER

State of Washington

### AGENCY

Bellingham Technical College

### ARCHITECT

HKP architects

### LANDSCAPE ARCHITECT

SvR Design Company

### MECHANICAL ENGINEER

Notkin

### CIVIL ENGINEER

Wilson Engineering

### STRUCTURAL ENGINEER

AHBL

### ELECTRICAL ENGINEER

Travis Fitzmaurice Associates

### GEOTECHNICAL

Merit Engineering

### COST ESTIMATING

The Woolsey Company

### SIGNAGE

BrandQuery

### HARDWARE

Adams Consulting & Estimating

### KITCHEN

Bundy and Associates

### AUDIO/VISUAL

AVC Consulting

### GENERAL CONTRACTOR

Exxel Pacific

Sustainable design principles have always been at the heart of our design decisions, particularly when it comes to natural ventilation, passive solar strategies, light, views and material expression in the Pacific Northwest. HKP architects actively incorporates sustainable design principles in all of our work and we help clients understand the long-term benefits to our environment and to their operation and maintenance costs.

### HKP architects

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HKP architects

CASE STUDY

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# CAMPUS CENTER

## Bellingham Technical College

LEED Gold

## Project Overview

On a site which was previously occupied by four deficient, single-story buildings, the new Campus Center combines seven different programs and services within one uniform and highly efficient building. Located along the campus' circulation core, it serves as a new activity hub providing a large green space and courtyard for both the campus community and the neighborhood community to enjoy. The Campus Center, which opened in Fall 2012 is LEED Gold Certified.

Campus Center is designed around three major axes: the lower student parking lot from the north, the campus core circulation to the south, and the future Master Plan development to the west. The building also connects to Building G on the east providing new expansion to the Culinary Arts program.

The program includes: a large group instruction hall, conference spaces and expanded commercial and teaching kitchens on the ground floor; office space and classrooms on the second floor; and an expanded and upgraded library and the campus' first-ever student activities lounge on the third floor.

The building provides many spaces for both formal instruction and informal student collaboration outside of a traditional classroom setting. Outdoor balconies to the north and south offer views of Mount Baker and Bellingham Bay, respectively.

With consideration of the college's Master Plan, attentive material selection and environmental design, Campus Center provides a new sustainable campus core to the faculty, students and community alike.

## PROJECT FACTS

**Square Feet:**  
72,885, 3 story

**Site/Building:**  
3.5 acres  
(within larger campus)

**Location:**  
Bellingham, WA

**Construction Cost:**  
\$268/sq. ft.

**Total Cost:**  
\$19.5 million

**Completed:**  
Fall 2012

**Testimonial**

*“BTC is thrilled to add this state of the art building to our campus. It allows us to continue to deliver high demand, high-tech education in updated facilities. This facility represents a major step in modernizing our campus and providing leading edge teaching and learning for today and tomorrow’s workforce.”*

*- Patricia McKeown,  
President of  
Bellingham Technical  
College*



**Design Approach**

As an anchor for BTC, Campus Center consolidates many disjointed programs within one cohesive building at the campus core. The building is designed with respect to the campus’ existing and future circulation, an open structural system and program organized according to occupants’ needs for access, views, natural light, and air.

Attention to the campus’ circulation encouraged a main circulation spine connecting the north and south entries. The circulation spine, distinguished by brick on the interior of the building, organizes the instructional spaces from the service areas. The building opens in the middle, by way of vertical light shafts and an entrance on the west elevation. This west elevation will become a main entry focus of the 20-year master circulation plan.

The structural system and program organization guided the design. Four major trusses were engineered to carry the loads while providing large open spaces for the Library and the Large Group Instruction space; these trusses are expressed throughout the interior and exterior of the building.

**Project Goals**

*“Beyond the basic program needs, the design goals were to create opportunities for interaction, to showcase the students at work, and to allow the public to engage with the BTC community on a regular basis to see first-hand the incredible environment that exists on campus. As part of the overall Master Plan, the Campus Center is pivotal in defining BTC as an extraordinary higher education place of learning, dedicated to advancement, achievement and sustainability.”*

*- Julie Blazek,  
HKP Architect*

Priority is given to large public spaces such as the Library and Student Center. Located on the third floor, these spaces receive maximum daylight and unparalleled views of Puget Sound, Mount Baker, and the Canadian Cascades. The second floor is devoted to computer classrooms to support Computer Networking and Business Computer Information Software programs. Two light wells bring natural light from the third floor down to a casual study area and offices on the second floor. The ground floor is reserved for high activity areas such as the bookstore, culinary arts, restaurant, and the Large Group Instruction.

The north and south exposures were optimized with curtain walls providing maximum daylight to the adjacent programs, while the east and west walls were composed of solid masonry and fewer punched openings to provide the adjacent programs with relief from the hot east and west sun.

Exterior overhangs on the western and southern elevations not only provide protection from the elements, but also serve as a transition, connecting the large surrounding courtyards through to the main lobbies.

**Energy & Conservation**

Campus Center was designed with energy usage and conservation as a main priority with careful consideration of: construction waste, daylighting, green roofs, solar photo voltaic panels, storm water management, water-efficient fixtures, recycling and local/regional materials.

Careful attention to design and construction allowed for 97% landfill diversion of construction waste and 31% reduction in operating cost for energy. Of the materials incorporated in the building 22% are recycled and 25% are local/regionally sourced.

Daylighting studies conducted in collaboration with the Integrated Design Laboratory helped optimize daylighting through a large center light well and roof monitors. Natural light reaches deep into the core of the building illuminating both the library on the third floor and the casual study area on the second floor.

A lower green roof is visible from the third floor, while the green roof on the main roof incorporates a series of roof monitors and an array of solar photo voltaic panels.

Rain gardens in the courtyard collect storm water, mitigating runoff. Water-efficient plumbing fixtures were selected to minimize water consumption, while drinking-water refilling stations were provided to reduce the use of plastic bottles. Additionally, recycling areas within Campus Center promote accessible recycling.



**Materials & Resources**

The material selection focused on recycled content, recyclable products, durability, and contextual relevance.

Many of the materials are composed of recycled content, including the concrete, steel, drywall, and counter tops; the Cafe showcases reclaimed fir throughout. The concrete, brick, metal, and carpet were all selected for their recycling capacity. The linoleum flooring throughout Campus Center is natural, durable and recyclable while the concrete and steel will endure decades of high-use. To ensure Campus Center incorporates harmoniously with the existing campus, the exterior was clad in a similar brick to the surrounding buildings.

These selections ensure Campus Center not only compliments the existing campus, but provides a resilient place for students and faculty for decades to come.

