

LIVING LAB

On site treatment system provides tertiary treatment of wastewater. Reclaimed water is used for low-flush toilets.

Mature plants are harvested and sold for supplemental income at markets.

Lab is a model field application for microbiology and botany in northern climates.

CLASSROOMS

4 CLASSROOMS INCLUDING PREPARATORY SUPPORT SPACES

Plan composition of two wings enables the building to be scaled or closed off in the winter months.

Classrooms feature interpretive elements targeting on-site sustainability, allowing students to examine their own energy and water consumption.

Fully functional classrooms provide for flexibility in use from natural science and ecology to community and private events.

THEATER

May be closed down seasonally to limit excessive energy consumption in winter time.

Sloped floor seating proves optimum viewing for flexible community uses such as lectures, plays and films.

Recycled fabrics used for acoustical panels and seating

RESTROOMS

Central facility design to eliminate the redundancy of fixtures among campus buildings.

Solar heated water for sinks.

Low flush fixtures connected in loop with the living lab so that blackwater is turned into greywater that is then used to flush toilets.

Daylit to reduce need for lighting during summer months.

Seasonal use reduces need to heat or light building.

MAIN CENTER

INCLUDES GREAT ROOM, MULTI-PURPOSE CLASSROOMS, ADMINISTRATION AND CARETAKER'S APARTMENT

Main lobby acts as a hub of activity emphasizing hierarchical way-finding among campus buildings.

Classroom and office wings oriented for future expansion while preserving views and site interaction.

Material and energy efficient outdoor/indoor fireplace functions as focal point for protected weather activities and indoor "Fire-side chats".

Each classroom is constructed from a unique set of sustainable materials such as bamboo, cork, sunflower seed composite, etc.

All typically occupied rooms daylit to conserve on lighting and to connect with the environment.

Integrated recycling facilities.

Renewable power source exploration such as hydropower, wind harvesting, and photovoltaic panels.

Guided and self-guided interpretive tours focus on ecology and history.

SITE

Outdoor amphitheater encourages immersion in nature over artificial environments.

Use of hardened trails in place of paving for vehicular access.

Construction is light on the land using less than 1 acre of the site.